elero
turn your life

2016 | 2017
Drives and controls
for intelligent building technology

elero

2016|2017
Drives and controls
for intelligent building technology

Tubular drives
Venetian blind drives
Speciality drives

Home automation
Controls
Sensors

Door drives
Door controls

Accessories

elero

1964 In der Elektromotoren-Wickelei und Reparaturwerkstatt Prader entstand die Idee,
den Rolladengurt durch einen Motor zu ersetzen.

→ elero – **ele**ktrisch **ro**llen

*The idea to replace the roller shutter belt by a motor was hatched
in the Prader electric motor winding and repair shop.*

→ *elero – **ele**ctric **ro**lling*

Es folgt ein komplettes Motorenprogramm für Rollläden, Markisen und Rolltore.
A complete range of motors for roller shutters, awnings and rolling-garage-doors.

1970 Erster elektrischer Garagentor-Antrieb mit Funkfernsteuerung.
First electric garage door drive with a radio remote control.

1964

1967

1970

1971 1972 1974

5○

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076 1980 1984 1985 198 5 1997 1998 1999 2000 2 2005 2006 20

50

Pioneer

Becoming a global player with a simple idea

Never again raising roller shutters by hand – this simple thought marked the start for elero in 1964. Since then the company name has been synonymous with a mission: making roller shutters, awnings, venetian blinds and rolling doors roll electrically at the push of a button. The workshop from back then has become a global player that regularly sets new standards in home automation, whether in 1984 with the first electronic timer or in 1992 with the automatic controller that follows the yearly course of the sun. In 2009 elero presented the "ProLine 2", the first bidirectional radio system with routing function. Centero has enabled the simple and convenient control of building services by smartphone or tablet PC since 2013. Today, over 50 years after the establishment of the company, elero employs over 450 staff with branches all over the world and is still as innovative as it was on the very first day.

Content

Colours

Tubular drives RevoLine S + M + L

Tubular drives Type 9 + 11

Venetian blind drives

Speciality drives

Home automation, radio control units and sensors

Hardwired control units and -sensors

Door drives

Door controls

Drive adapter profiles and lifting capacity tables

Quality of life

Greater living comfort at the push of a button

It's the little details that constitute perfect living comfort: never again having to pull or wind your sun protection by hand. Roller shutters that automatically open and close. An awning controller that gently stretches the cloth taut in the sunshine and retracts the sun protection system in wind and rain. And all of this maintenance-free, noiseless and comfortable in operation, at the push of a button, by radio remote control or app from anywhere in the world. Tenants as well as house and flat owners soon realise that products and solutions from elero save time, lower energy costs and thus quickly pay off in the truest sense of the words. However, elero offers even more that cannot be measured in euros and cents: an undreamt-of high degree of living comfort and a new quality of life.

Innovation

Highest demands on design, technology and quality

Noble and plain on the outside, high-end technology on the inside. We have been the leaders in innovation in building automation since 1964 and have shaped the market with new and visionary products. With our high product quality and innovative force, we are the only supplier that still develops and produces entirely in Germany. Our product development focuses on our customers with their requests and requirements. Hence, we develop user-friendly products with intuitive operation and high comfort and find the best solution even for special requirements. The result: internationally award-winning innovations, the Centero app for the simple mobile operation of the building services. And delighted customers worldwide.

Colleg Orange

For your success

Specialist know-how and good service are important for your sales success – which is why our seminars and workshops are exactly the right thing for you!

The seminar for successful product consulting and sales is ideal for all those who wish to provide the best-possible advice for their customers while at the same time refreshing their basic knowledge. At the end of the day the participants are familiar will all sales arguments and the beneficial aspects of automation solutions. For installation engineers, service technicians, certified electricians and craftsmen with prior knowledge there are half-day workshops on drive technology and control technology, which – depending on the event location – may be combined with one another.

In the new seminar "Building automation with smartphone and tablet" we look at the various control possibilities with a smartphone and tablet, and provide answers to widely differing customer requirements.

Made in Germany

More than a half century of company history – with all its highs and lows, many innovations and constant "German-made" quality. The customer is the central generator of ideas and each employee is an important part of the works. Long-standing relationships with customers are decisive for success. Since its establishment, elero has catered to the interests of building owners, craftsmen, architects and system manufacturers. Hence, it provides a good service and develops tailor-made and innovative products that are really needed.

Highest quality

elero venetian blind drives are optimally tailored to the specific requirements of venetian blinds. The drives are equipped with integrated thermal protection and an easily adjustable limit stop. The indestructible, maintenance-free planetary gears, the splash-proof motor housing and the standard use of high-precision individual parts maintain the quality of these drives. The accurately functioning latching limit stops, whose adjustment is both simple and easily accessible for both directions of rotation, offer further advantages.

Gentle technology

Modern drives fulfil a variety of requirements. They should be robust, durable and reliable, but at the same time work quietly and be maintenance-free. The RevoLine roller shutter drives from elero move the shutters smoothly and precisely. The drives have an integrated slow speed which ensures a smooth stop travel. That especially protects the roller shutters and considerably reduces noise development.

Automation

Control the awning from your deck chair or the light and the roller shutters from the bed without having to juggle with lots of different remote controls – who has never wanted to be able to do that? With the Centero automation solution from elero, building services can be controlled by smartphones and tablet PCs. Additional living comfort is offered by the Unio-868 radio power socket, via which the Centero can be linked with further devices.

Our future

Drive on the job

Therefore, in order to meet its needs for qualified and dedicated skilled workers, elero has trained its own apprentices for many years. Great importance is attached to well-trained employees. It is the individual employees that lead a company to success. They make the company strong for the future. Those who begin their career at elero thus receive a great deal of input in theory and practice. In addition, special projects in the team provide for work enjoyment and solidarity.

Your direct line

International service

We have developed into a leading, globally operative brand in the field of drives and controllers for intelligent, sustainable home automation and industrial applications. For elero, everything revolves around the customer. And customer satisfaction is a measure of success. This is expressed in expert advice, short delivery times and intensive customer service. Almost worldwide. How else would we have so many satisfied regular customers?

Drives

	Page	Electronic limits with Soft Stop on end position approach	Mechanical limit switches	Uni-directional radio system	Bi-directional radio system	Noiseless soft brake *	Integrated slow drive **	Torque control	Manual override	Parallel connection possible	Roller shutter	Sonro roller shutter	Awning	Blind and screen	Dual screen	Roller shutter with louvre function	ZIP Screen	Venetian blind	Rolling doors	Folding shutter drive
RevoLine S																				
RolTop S-868	30	•		•	•	•	•	•			•			•						
RolTop S	32	•				•	•	•		•	•			•						
RolTop D+ S-868	34	•		•	•	•	•	•			•									
RolTop D+ S	36	•				•	•	•		•	•									
RolTop/T S-868	38	•		•	•	•	•	•							•					
SunTop S-868	40	•		•	•	•	•	•					•	•						
SunTop S	42	•				•	•	•		•			•	•						
VariEco S-868	44		•	•	•	•					•		•	•						
VariEco S	46		•			•					•		•	•						
VariEco S-K	48		•			•					•			•						
RevoLine M																				
RolTop M-868 /K /RH /SH	60	•		•	•	•	•	•			•			•						
RolTop M-868 Fast run.vers. /RH	62	•		•	•	•	•	•						•						
RolTop M /K /RH /SH	64	•				•	•	•		•	•			•						
RolTop M Fast run.vers. /RH	66	•				•	•	•		•				•						
RolSmart M10-K	68	•				•	•	•			•			•						
RolSmart M20	68	•				•	•	•			•			•						
RolTop/D+ M-868 /SH	70	•		•	•	•	•	•			•			•						
RolTop/D+ M /SH	72	•				•	•	•		•	•			•						
RolTop s_onro M-868	74	•		•	•	•	•	•				•								
RolTop s_onro M	76	•				•	•	•		•		•								
RolTop/J M-868	78	•		•	•	•	•	•										•		
RolTop/J M	80	•				•	•	•		•								•		
SunTop M-868 /RH /SH	82	•		•	•	•	•	•					•	•						
SunTop M /RH /SH	84	•				•	•	•		•			•	•						
SunTop/Z M-868 RH	86	•				•	•	•											•	
SunTop/Z M RH	88	•				•	•	•		•									•	
VariEco M-868	90		•	•	•	•					•		•	•						
VariEco+ M-868	90		•	•	•	•					•		•	•						
VariEco M	92		•			•					•		•	•						
VariEco+ M	92		•			•					•		•	•						
RevoLine L																				
RolTop L-868	104	•		•	•			•			•			•						
RolTop L	106	•						•		•	•			•						
SunTop L-868	108	•		•	•			•					•	•						
SunTop L	110	•						•		•			•	•						
VariEco L-868	112		•	•	•						•		•	•						
VariEco L	114		•								•		•	•						

	Page	Electronic limits with Soft Stop on end position approach	Mechanical limit switches	Uni-directional radio system	Bi-directional radio system	Noiseless soft brake *	Integrated slow drive **	Torque control	Manual override	Parallel connection possible	Roller shutter	Sonro roller shutter	Awning	Blind and screen	Dual screen	Roller shutter with louvre function	ZIP Screen	Venetian blind	Rolling doors	Folding shutter drive
Type 11																				
Type 11 CSM-868	122	•		•				•					•	•						
Type 11 CSM-F-868	122	•		•				•					•	•						
Type 11 CSM-E	124	•						•	•				•	•						
Type 11	126		•								•		•	•						
Type 9 NHK / Type 11 NHK																				
Type 9 NHK	132		•						•		•		•	•					•	
Type 11 NHK	134		•						•		•		•	•					•	
Type 15																				
Type 15 W	254		•								•		•						•	
Type 15 W NMA	256		•						•		•		•						•	
Venetian blind drives																				
JA	146		•															•		
JA Soft	146		•			•												•		
JAR	148		•															•		
JAR Soft	148		•			•												•		
JA NHK	150		•						•									•		
Speciality drives																				
Folder shutter drive	158	•						•		•										•
Solar drive systems																				
VariEco M DC	162		•			•					•		•	•						
VariEco M-868 DC	162		•	•	•	•					•		•	•						
SunTop L-868 DC	162							•		•			•	•						
JA Soft DC	162		•			•												•		

* Noiseless soft brake: Serie S up to 8 Nm including; Serie M up to 20 Nm including

** Integrated slow drive: only in combination with soft brake

Possible limit switch modes

	Page	Programmable end limits combinations				Mechanically adjustable end limits		Self learning limits	
		Upper limit switch		Lower limit switch		Upper limit switch	Lower limit switch	Upper limit switch	Lower limit switch
		on limit stop	freely programmable	on limit stop	freely programmable	frei freely programmable	frei freely programmable	on limit stop	on limit stop
RevoLine S									
RolTop S-868 **RolTop S**	30 32	•		•					
		•			•				
			•	•					
			•		•				
RolTop/D+ S-868 **RolTop/D+ S**	34 36							•	•
RolTop/T S-868	38	•		•					
		•			•				
			•	•					
			•		•				
SunTop S-868 **SunTop S**	40 42	•		•					
		•			•				
			•	•					
			•		•				
VariEco S-868 **VariEco S** **VariEco S-K**	44 46 48					•	•		
RevoLine M									
RolTop M-868 /K /RH /SH **RolTop M-868 fast run. /RH** **RolTop M /K /RH /SH** **RolTop fast run. /RH**	60 62 64 66	•		•					
		•			•				
			•	•					
			•		•				
RolSmart M10-K **RolSmart M20**	68 68	•		•					
		•			•				
			•	•					
RolTop/D+ M-868 /SH **RolTop/D+ M /SH**	70 72							•	•
RolTop s_onro M-868 **RolTop s_onro M**	74 76	•		•					
		•			•				
			•	•					
			•		•				
RolTop/J M-868 **RolTop/J M**	78 80	•		•					
		•			•				
			•	•					
			•		•				
SunTop M-868 /RH /SH **SunTop M /RH /SH**	82 84	•		•					
		•			•				
			•	•					
			•		•				
SunTop/Z M-868 /RH **SunTop/Z M /RH**	86 88	•		•					
		•			•				
			•	•					
			•		•				
VariEco M-868 /+ M-868 **VariEco M-868 DC** **VariEco M /+ M** **VariEco M DC**	90 162 92 162					•	•		

	Page	Programmable end limits combinations				Mechanically adjustable end limits		Self learning limits	
		Upper limit switch		Lower limit switch		Upper limit switch	Lower limit switch	Upper limit switch	Lower limit switch
		on limit stop	freely programmable	on limit stop	freely programmable	frei freely programmable	frei freely programmable	on limit stop	on limit stop
RevoLine L									
RolTop L-868 **RolTop L**	104 106	• •		•					
		•			•				
			•	•					
			•		•				
SunTop L-868 **SunTop L-868 DC** **SunTop L**	108 162 110	•		•					
		•			•				
			•	•					
			•		•				
VariEco L-868 **VariEco L**	112 114					•	•		
Type 11									
Type 11 CSM-868	122	•			•				
			•	•					
Type 11 CSM-F-868	124		•		•				
Type 11 CSM-E	124	•			•				
			•	•					
Type 11	126					•	•		
Type 9 NHK / Type 11 NHK									
Type 9 NHK **Type 11 NHK**	132 134					•	•		
Type 15									
Type 15 W **Type 15 W NMA**	252 254					•	•		
Venetian blind drives									
JA **JA Soft** **JA Soft DC**	146 146 162					•	•		
JAR **JAR Soft**	148 148					•	•		
JA NHK	150					•	•		
Speciality drives									
Folding shutter drive	158							•	•

Control units overview

Control units

Control units	Page	Roller shutters/ Interior shading	Awnings/External shading	Venetian blinds	Switching lights	Heating	Switching of mains voltage (230 V)	Switching of low voltage (<6V)	Radio transmitter, number of channels	Radio receiver	Requires 230 V connection	External inputs/Building automation system/Audio visual system integration	Manual/automatic sliding switch	Integrated operation buttons	24-hour and 7-day basic timer	Astro, sun set timer (or weekly timer)	Astro, sun rise timer (or weekly timer)	Astro shift (user adjustable)	City selection (156 locations)	Longitude/latitude degree adjustable	Time adjustable
Centero	168	•	•	•	•	•			15[1]		•		•	•	•	•	•	•	•	•	•
MultiTec Touch-868	172	•	•	•	•	•			20		•		•	•		•	•	•	•	•	•
TempoTel 2 *	174	•	○	•	•	○			10				•	•		•	•	•	•	•	•
MultiTel 2	176	•	•	•	•	•			15				•	•							
VarioTel 2	176	•	•	•	•	•			5				•	•							
LumeroTel 2	178	•	•	•	•	•			1				•	•							
MonoTel 2	178	•	○	○	•	•			1					•							
SoloTel 2	178	•	○	○	•	•			1					•							
AstroTec-868 /bidi	180	•	○	•	•	○			1				•	•		•	•	•	•	•	•
MemoTec-868	182	•	○	•	•	○			1				•	•	•						
UniTec-868	184	•	•	•	•	•			1				•	•							
Invio-868	186	•	○	○	•	•			1		•	•									
VarioTec-868	188	•	•	•			•	•		•	•	•	•	•							
AeroControl-868	190		•	•			•			•	•	•									
Revio-868	192	•	•	•			•			•	•	•									
Revio-868 P	192	•	•	•			•	•		•	•										
Revio-868 SW	192	•	•	•	•		•	•		•	•	•									
Unio-868	194				•	•	•			•	•			•							
Combio-868 JA	196			•			•			•	•										
Combio-868 JA Pulse	196			•			•			•	•										
Combio-868 RM	196	•	•				•			•	•										
Combio-868 HE	198					•	•			•	•										
Combio-868 LI	198				•		•			•	•										
Combio-868 SW	198				•		•			•	•										
Sensero-868 AC/ Sensero-868 AC Plus	200	○	•	•					1		•			•							
Aero-868	202		•						1					•							
Aero-868 Plus	202		•	•					1					•							
Aero-868 AC	202		•	•					1		•			•							
Ventero-868	202		•						1					•							
Protero-868	204		•						1					•							
Lumero-868	206	•	•	•					1					•							
Lumo-868	208	•	○	○					1				○	•							
AeroTec	212	○	•	•			•	•			•	•	•								
AstroTec	214	•	○	•	•		•	•			•	•	•	•		•	•	•	•	•	•
TempoTec	214	•	○	•			•				•		•	•		•		•	•	•	•
MemoTec	216	•	○	○			•				•		•	•	•						
VarioTec	218	•	•	•			•	•			•		•	•							
MonoTec	220	•	•	•				•					•	•							
TimeTec	222	•					•				•		•	•							

○ With restrictions/Partially suitable channels   • Yes/Suitable   [1] up to 150 expandable

	Page	Use as weekly timer (1x up and 1x down each day)	2nd weekly timer (1x up and 1x down each day)	Offset (offset command, based on first set timer)	Light sensor imput/twilight function	Light sensor function	Glass brake sensor function	Wind sensor input/function	Multi pre-set languages	Intermediate position & ventilation position	Tilting position/fabric tight	Holiday (intelligent randomiser)	Travel position assignment down	Travel position assignment up	Automatic summer/winter time adjustment	Running time setting	Disable group/master inputs	Disable (Wind) alarm signal	Non erasable memory for automatic date of installation, relay activation counter, motor running time	Storage dimm value	Fixed dimm value	Transmitter/receiver for bidirectional mode °	Transmitter/receiver for unidirectional mode
Control units																							
Centero	168	•	•						•	•	•		•	•	•							•	
MultiTec Touch-868	172	•	○						•	•	•	•	•	•	•							•	
TempoTel 2 *	174	•	○						•	•	•	•	•	•	•							•	•
MultiTel 2	176								•	•	•											•	
VarioTel 2	176																					•	•
LumeroTel 2	178																					•	•
MonoTel 2	178																					•	•
SoloTel 2	178																					•	•
AstroTec-868 /bidi	180	•	•	•	•	•			•	•	•	•	•		•	•			○			•+	• "
MemoTec-868	182																					•	
UniTec-868	184																					•	•
Invio-868	186																					•	
VarioTec-868	188									•	•						•					•	•
AeroControl-868	190				•	•		•		•	•											•	•
Revio-868	192									•	•											•	•
Revio-868 P	192									•	•											•	•
Revio-868 SW	192									•	•											•	•
Unio-868	194																					•	•
Combio-868 JA	196									•	•											•	•
Combio-868 JA Pulse	196									•	•											•	•
Combio-868 RM	196									•	•											•	•
Combio-868 HE	198																				•	•	•
Combio-868 LI	198																			•			•
Combio-868 SW	198																						•
Sensero-868 AC/ Sensero-868 AC Plus	200				•	•		•														•	•
Aero-868	202					•		•														•	•
Aero-868 Plus	202					•		•														•	•
Aero-868 AC	202					•		•														•	•
Ventero-868	202							•														•	•
Protero-868	204							•														•	•
Lumero-868	206					•																•	•
Lumo-868	208				•	•	•															•	•
AeroTec	212	•			•	•		•	•	•	•	•			•	•	•		•				
AstroTec	214	•	•	•	•	•			•	•	•	•	•		•	•	•		•	•			
TempoTec	214	•							•	•	•	•	•		•				•				
MemoTec	216									•	•												
VarioTec	218									•	•									•			
MonoTec	220	•																					
TimeTec	222	•																					

○ With restrictions/Partially suitable   • Yes/Suitable   * Times of 2 Groups + Central   + AstroTec-868 bidi only   " nur AstroTec-868   ° incl. routing

Status LED display of the ProLine 2 transmitter

Colour and frequency	Meaning
Flashing **orange** (2 Hz)	Channel is empty or not yet programmed
Flickering **orange** (20 Hz)	Channel is in **bidi**rectional programming mode (at least one **bidi**rectional receiver is also in programming mode)
Orange and then **green**	Channel is **bidi**rectionally programmed and the receiver has received the signal
Orange and then **red**	Channel is **bidi**rectionally programmed and one of the receivers has not received the signal
Red and then **green**	Channel is **bidi**rectionally programmed and the receiver has received the signal. Batteries are low!
Red and then **red**	Channel is **bidi**rectionally programmed and one of the receivers has not received the signal. Batteries are low!
Green	Channel is in **uni**directional mode
Orange and **green** alternating, then **red**	Channel (transmitter) is deleted
Red flashing	Batteries are low!

ProLine 2

Wissen was läuft!
Knowing what's up!

ProLine 2 – bidirectional transmitter programming

Function	Buttons to press	Procedure	Condition/prerequisite
Start preparation to programming mode (time: 5 min.)		Interrupt supply voltage: Switch circuit breaker off/on	
		Press for approx. 3 sec.	Transmitter already programmed
		Press for approx. 6 sec. → **until LED lights up red**	Transmitter already programmed (all receivers that know the transmitter are now deleted)
Start preparation to synchronous programming mode (time: 5 min.)		**Press for approx. 3 sec.** → **until LED lights up orange**	Transmitter already programmed
Start (synchronous*) programming mode (progr. time: 2 min.)		**Press for approx 1 sec.** → **until LED lights up orange**	Receiver in (synchronous) programming mode
Stop programming mode (in transmitter + receiver)		**Press for approx. 6 sec.** → **until LED flashes orange**	Programming mode was started with this transmitter
Stop programming mode		**Tap**	Transmitter already programmed
Programme transmitter	1. 2.	Briefly press the **UP** button immediately (< 1 sec.) after the start of any 'upward movement' and briefly press the **DOWN** button after the start of any 'downward movement'. This is acknowledged by the drive briefly stopping	The drive is in programming mode and the blind constantly drives UP and DOWN for a short distance for 3 min!
Delete an individual transmitter/channel from the receiver		**Press for approx. 6 sec.** → **until LED lights up red**	Transmitter already programmed
Delete **EVERYTHING** from the receiver		**Press for approx. 6 sec.** → **until LED lights up red**	Transmitter already programmed
Programme intermediate position	1. 2.	Press and hold the **DOWN** button until the desired position is reached, then additionally press the **STOP** button briefly	Transmitter already programmed
Delete intermediate position		**Press for approx. 3 sec.** → **until LED goes off briefly**	Transmitter already programmed
Drive to intermediate position	2x	Quickly push **DOWN** button 2x	Intermediate position already programmed
Programme ventilation or tilting position	1. 2.	Press and hold the **UP** button until the desired position is reached, then additionally press the **STOP** button briefly	Transmitter already programmed
Delete ventilation or tilting position		**Press for approx. 3 sec.** → **until LED goes off briefly**	Transmitter already programmed
Drive to tilting position	2x	Quickly push **UP** button 2x	Tilting position already programmed

Explanation of the push buttons on the example of the LumeroTel 2 hand-held transmitter

UP button
STOP button
STATUS-LED
DOWN button

Programming-button P

* The UP and DOWN drives of the receiver (from date of manufacture 06/05) start synchronously. The simultaneous programming of a transmitter on several blinds is thus possible.

RevoLine S
– Little big drive!

The tubular motors in the S series are available in the versions RolTop, SunTop and VariEco, and with or without an integrated radio system. Thus elero offers a wide and varied product range to cover a diversity of applications. With a diameter of 35 mm the drives are ideal for space-saving systems. Depending on the application and the drive type these are available with 1.5 to 12 Nm and, depending on the version, 17 to 70 rpm. For environments in which noise is particularly disturbing it is possible to deploy drives (max. 8 Nm) with a noiseless "soft" brake. All the drives may be installed and set up quickly and easily.

RolTop S-868

Radio tubular drives for roller shutters and sun protection systems

RolTop S-868 (230 V/50 Hz)

Application:	**Roller shutter and textile sun protection (Blinds)***
Limit switch:	Electronic limits with Soft Stop on end position approach on motors with soft brake
Highlights:	Smart force measurement
	Application protection in up and down direction and reversion on obstacle
	Limits can be adjusted via radio remote control or installation lead
	Plug-able cable
Shaft size:	From Ø = 38 mm
Features:	Noiseless soft brake up to 8 Nm
Radio system:	Bi-directional 868 MHz radio including routing

Drive might stop on heavy wind load to protect drive

Possible limit switch modes

Upper limit switch	Lower limit switch
On limit stop	Freely programmable
Freely programmable	On limit stop
On limit stop	On limit stop
Freely programmable	Freely programmable

RolTop S-868
with white and black motor head

Antenna

39

C

D

Ø 35

E = 11

33

plug-in connection cable

RevoLine S

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

Technical data and dimensions

Type	RolTop S1.5/70-868	RolTop S3/30-868	RolTop S5/30-868	RolTop S5-868	RolTop S8-868	RolTop S10-868 FL	RolTop S12-868 FL	RolTop S12/11-868 FL
Max. torque (Nm)	1.5	3	5		8	10	12	
Speed (rpm)	70	30			17			11
Roller shutter	–			•				
Blinds		•		–				
Operating Voltage (V)	1 ~ 230							
Frequency (Hz)	50							
Noiseless soft brake		•			–			
Fast-running version		•			–			
Current (A)	0.55	0.73	0.55	0.73	0.6	0.73	0.6	
Power (W)	130	168	130	168	140	168	140	
Shaft Ø (mm)	38							
Ingress protection (IP)	44							
Max. limit switch range in Revolutions of the shaft	160	80		40				
Operating mode (KB in min.)	5		4	5	4			
Length C (mm)	534					514	534	514
Length D (mm)	517.5					497.5	517.5	497.5
Length E (mm)	= 11							
Weight (kg)	1.3	1.2	1.3	1.2	1.3	1.2	1.3	1.2
Temperature range (°C)	–20 to +60							
Conformity	CE							
Connecting cable, pluggable (m)	2.0							
White motor head		•		–				
Accessories included	–			On request included (only on 17 rpm drives): "T"-head for motor to suit older Type 8 (restores backwards compatibility to Type 8 motors). RevoLine head for motor (item no. 99 000.7501) (enables use of RevoLine brackets).				

	RolTop S1.5/70-868	RolTop S3/30-868	RolTop S5/30-868					
Item Number	30 222.0006	30 212.0006	30 232.0006					

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

				RolTop S5-868	RolTop S8-868	RolTop S10-868 FL	RolTop S12-868 FL	RolTop S12/11-868 FL
Item Number				30 234.0006	30 254.0006	30 824.0006	30 814.0006	30 812.0006

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 50	Brackets (M) Page 52	Brackets (S) in comb. with RevoLine head for motor Page 53
Radio control units from page 167	Bracket adapters Page 53	L-brackets and bearings Page 54
Drive adapter sets Page 51	Radio sensors from page 200	

RolTop S

Tubular drives for roller blinds and sun protection systems

RolTop S (230 V/50 Hz)

Application:	**Roller shutter and textile sun protection (Blinds)***
Limit switch:	Mechanical limit switches with Soft Stop on end position
Highlights:	Smart force measurement
	Application protection in up and down direction
	and reversion on obstacle
	Parallel connection possible
	Limits can be adjusted via installation lead, plug-able cable
Shaft size:	From Ø = 38 mm
Features:	Noiseless soft brake up to 8 Nm
	* Drive might stop on heavy wind load to protect drive
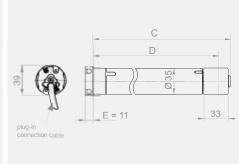
Possible limit switch modes

Upper limit switch	Lower limit switch
On limit stop	Freely programmable
Freely programmable	On limit stop
On limit stop	On limit stop
Freely programmable	Freely programmable

RolTop S
with white and black motor head

C

D

39

Ø35

E = 11

33

plug-in
connection cable

Technical data and dimensions

New   New

Type	RolTop S1.5/70	RolTop S3/30	RolTop S5/30	RolTop S5	RolTop S8	RolTop S10 FL	RolTop S12 FL	RolTop S12/11 FL
Max. torque (Nm)	1.5	3	5		8	10	12	
Speed (rpm)	70	30		17				11
Roller shutter	–		•					
Blinds		•		–				
Operating Voltage (V)	1 ~ 230							
Frequency (Hz)	50							
Noiseless soft brake		•		–				
Fast-running version		•		–				
Current (A)	0.55	0.73	0.55	0.73	0.6	0.73	0.6	
Power (W)	130	168	130	168	140	168	140	
Shaft Ø (mm)	38							
Ingress protection (IP)	44							
Max. limit switch range in Revolutions of the shaft	160	80		40				
Operating mode (KB in min.)	5	4	5	4				
Length C (mm)	534					514	534	514
Length D (mm)	517.5					497.5	517.5	497.5
Length E (mm)	= 11							
Weight (kg)	1.3	1.2		1.3	1.2	1.3	1.2	
Temperature range (°C)	−20 to +60							
Conformity	CE							
Connecting cable pluggable (m)	2.0							
White motor head		•		–				
Accessories included	–			On request included (only on 17 rpm drives): "T"-head for motor to suit older Type 8 (restores backwards compatibility to Type 8 motors). RevoLine head for motor (item no. 99 000.7501) (enables use of RevoLine brackets).				

	RolTop S1.5/70	RolTop S3/30	RolTop S5/30					
Item Number	30 221.0001	30 211.0001	30 231.0001					

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

New   New

				RolTop S5	RolTop S8	RolTop S10 FL	RolTop S12 FL	RolTop S12/11 FL
Item Number				30 233.0001	30 253.0001	30 823.0001	30 813.0001	30 811.0001

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 50	Brackets (M) Page 52	Brackets (S) in comb. with RevoLine head for motor Page 53
ProLine control units from page 211	Bracket adapters Page 53	L-brackets and bearings Page 54
Radio receivers from page 188	Sensors from page 235	Drive adapter sets Page 51

RevoLine S

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

RolTop/D+ S-868

Radio tubular drives for roller shutters and sun protection systems. Torque mode only motor

No limit setting required! (requires torque stop in both directions)

RolTop/D+ S-868 (230 V/50 Hz)

Application:	**Roller shutter and sun protection system**
Limit switch:	Electronic limits with Soft Stop on end position approach
Highlights:	Smart force measurement
	Application protection in up and down direction
	and reversion on obstacle
	End limits are self-learning
	Plug-able cable
Shaft size:	From Ø = 38 mm
Features:	Noiseless soft brake up to 8 Nm
	Only possible to use with torque stops in both directions!
Radio system:	Bi-directional 868 MHz radio including routing
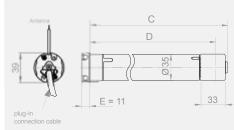
Possible limit switch modes

Upper limit switch	Lower limit switch
On limit stop	On limit stop

Technical data and dimensions

| Type	RolTop/D+ S5-868	RolTop/D+ S8-868	RolTop/D+ S12-868
Max. torque (Nm)	5	8	12
Speed (rpm)	17		
Operating Voltage (V)	1 ~ 230		
Frequency (Hz)	50		
Noiseless soft brake	•		–
Fast-running version	–		
Current (A)	0.55		0.73
Power (W)	130		168
Shaft Ø (mm)	38		
Ingress protection (IP)	44		
Max. limit switch range in Revolutions of the shaft	40		
Operating mode (KB in min.)	5	4	
Length C (mm)	534		
Length D (mm)	517.5		
Length E (mm)	= 11		
Weight (kg)	1.3		
Temperature range (°C)	−20 to +60		
Conformity	CE ⚠ ⓘ		
Connecting cable pluggable (m)	2.0		
Accessories included	On request included (only on 17 rpm drives): "T"-head for motor to suit older Type 8 (restores backwards compatibility to Type 8 motors). RevoLine head for motor (item no. 99 000.7501) (enables use of RevoLine brackets)		

	RolTop/D+ S5-868	RolTop/D+ S8-868	RolTop/D+ S12-868
Item Number	30 238.0006	30 258.0006	30 818.0006

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 50	Brackets (M) Page 52	Brackets (S) in comb. with RevoLine head for motor Page 53
Radio control units from page 167	Radio sensors from page 200	Drive adapter sets Page 51

RevoLine S

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

RolTop/D+ S

Tubular drives for roller shutters and sun protection systems
Torque mode only motor

No limit setting required!
(requires torque stop in both directions)

RolTop/D+ S (230 V/50 Hz)

Application:	**Roller shutter and sun protection system**
Limit switch:	Electronic limits with Soft Stop on end position approach
Highlights:	Smart force measurement
	Application protection in up and down direction
	and reversion on obstacle
	End limits are self-learning
	Plug-able cable
Shaft size:	From Ø = 38 mm
Features:	Noiseless soft brake up to 8 Nm

Possible limit switch modes

Upper limit switch	Lower limit switch
On limit stop	On limit stop

Technical data and dimensions
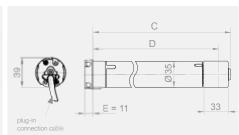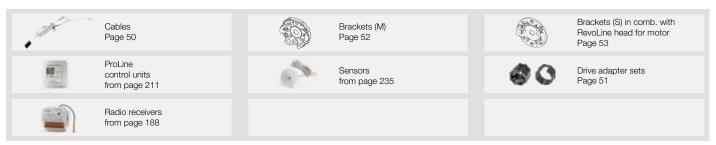
Type	RolTop/D+ S5	RolTop/D+ S8	RolTop/D+ S12
Max. torque (Nm)	5	8	12
Speed (rpm)		17	
Operating Voltage (V)		1 ~ 230	
Frequency (Hz)		50	
Noiseless soft brake		•	–
Fast-running version		–	
Current (A)	0.55	0.73	
Power (W)	130	168	
Shaft Ø (mm)		38	
Ingress protection (IP)		44	
Max. limit switch range in Revolutions of the shaft		40	
Operating mode (KB in min.)	5	4	
Length C (mm)		534	
Length D (mm)		517.5	
Length E (mm)		= 11	
Weight (kg)	1.2	1.3	
Temperature range (°C)		−20 to +60	
Conformity		CE	
Connecting cable pluggable (m)		2,0	
Accessories included		On request included (only on 17 rpm drives): "T"-head for motor to suit older Type 8 (restores backwards compatibility to Type 8 motors). RevoLine head for motor (item no. 99 000.7501) (enables use of RevoLine brackets)	

	RolTop/D+ S5	RolTop/D+ S8	RolTop/D+ S12
Item Number	30 237.0001	30 257.0001	30 817.0001

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

	Cables Page 50		Brackets (M) Page 52		Brackets (S) in comb. with RevoLine head for motor Page 53
	ProLine control units from page 211		Sensors from page 235		Drive adapter sets Page 51
	Radio receivers from page 188				

RevoLine S

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

RolTop/T S-868
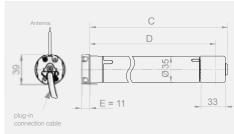
Radio tubular drives for Dual Screen

RolTop/T S-868 (230 V/50 Hz)

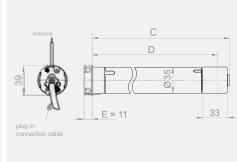|	
Application:	**Dual Screen**
Limit switch:	Electronic limits with Soft Stop on end position approach
Highlights:	Initial momentary mode with latching mode after 2 seconds
	Smart force measurement
	Application protection in up and down direction
	and reversion on obstacle
	Limits can be adjusted via radio remote control or installation lead
Shaft size:	From Ø = 38 mm
Features:	Noiseless soft brake
Radio system:	Bi-directional 868 MHz radio including routing

Possible limit switch modes

Upper limit switch	Lower limit switch
On limit stop	Freely programmable
Freely programmable	On limit stop
On limit stop	On limit stop
Freely programmable	Freely programmable

Technical data and dimensions

Type	RolTop/T S1.5/70-868	RolTop/T S3/30-868	RolTop/T S5/30-868
Max. torque (Nm)	1.5	3	5
Speed (rpm)	70	30	
Operating Voltage (V)	1 ~ 230		
Frequency (Hz)	50		
Noiseless soft brake	•		
Fast-running version	•		
Current (A)	0.55		0.73
Power (W)	130		168
Shaft Ø (mm)	38		
Ingress protection (IP)	44		
Max. limit switch range in Revolutions of the shaft	160	80	
Operating mode (KB in min.)	5		4
Length C (mm)	534		
Length D (mm)	517.5		
Length E (mm)	= 11		
Weight (kg)	1.3	1.2	1.3
Temperature range (°C)	−20 to +60		
Conformity	C E		
Connecting cable pluggable (m)	2.0		

	RolTop/T S1.5/70-868	RolTop/T S3/30-868	RolTop/T S5/30-868
Item Number	30 226.0006	30 216.0006	30 236.0006

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 50	Brackets (M) Page 52	Brackets (S) in comb. with RevoLine head for motor Page 53
Radio control units from page 17	Radio sensors from page 200	Drive adapter sets Page 51
Bracket adapters Page 53	L-brackets and bearings Page 54	

RevoLine S

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

SunTop S-868
Radio tubular drives for awnings

SunTop S-868 (230 V/50 Hz)

Application:	Awnings
Limit switch:	Electronic limits with Soft Stop on end position approach
Highlights:	Smart force measurement
	Blockage detection Up/Down
	Limits can be adjusted via radio remote control or installation lead
	Plug-able cable
Shaft size:	From Ø = 38 mm
Features:	Noiseless soft brake up to 5 Nm
Radio system:	Bi-directional 868 MHz radio including routing

Possible limit switch modes

Upper limit switch	Lower limit switch
On limit stop	Freely programmable
Freely programmable	On limit stop
On limit stop	On limit stop
Freely programmable	Freely programmable

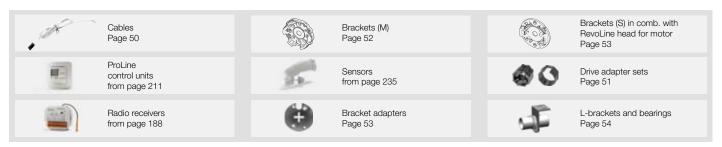**SunTop S-868**
with white and black motor head

Technical data and dimensions

Type	SunTop S5/30-868	SunTop S7/30-868 FL
Max. torque (Nm)	5	7
Speed (rpm)	30	
Operating Voltage (V)	1 ~ 230	
Frequency (Hz)	50	
Noiseless soft brake	•	–
Fast-running version	•	
Current (A)	0.73	
Power (W)	168	
Shaft Ø (mm)	38	
Ingress protection (IP)	44	
Max. limit switch range in Revolutions of the shaft	80	40
Operating mode (KB in min.)	4	
Length C (mm)	534	
Length D (mm)	517.5	
Length E (mm)	= 11	
Weight (kg)	1.3	1.4
Temperature range (°C)	–20 to +60	
Conformity	CE	
White motor head	•	–
Connecting cable pluggable (m)	2.0	

	SunTop S5/30-868	
Item Number	30 732.0006	

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

		SunTop S7/30-868 FL
Item Number		30 752.0006

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 50	Brackets (M) Page 52	Brackets (S) in comb. with RevoLine head for motor Page 53
Radio control units from page 167	Radio sensors from page 200	Drive adapter sets Page 51
Bracket adapters Page 53	L-brackets and bearings Page 54	

SunTop S
Tubular drives for awnings

SunTop S (230 V/50 Hz)

Application:	Awnings
Limit switch:	Electronic limits with Soft Stop on end position approach
Highlights:	Smart force measurement
	Blockage detection Up/Down
	Parallel connection possible
	Limits can be adjusted via installation lead
	Plug-able cable
Shaft size:	From Ø = 38 mm
Features:	Noiseless soft brake up to 5 Nm
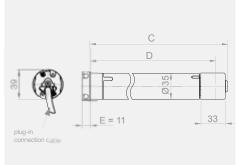
Possible limit switch modes

Upper limit switch	Lower limit switch
On limit stop	Freely programmable
Freely programmable	On limit stop
On limit stop	On limit stop
Freely programmable	Freely programmable

SunTop S
with white and black motor head

plug-in
connection cable

C
D
39
Ø 35
E = 11
33

Technical data and dimensions

Type	SunTop S5/30	SunTop S7/30 FL
Max. torque (Nm)	5	7
Speed (rpm)	30	
Operating Voltage (V)	1 ~ 230	
Frequency (Hz)	50	
Noiseless soft brake	•	–
Fast-running version		•
Current (A)	0.73	
Power (W)	168	
Shaft Ø (mm)	38	
Ingress protection (IP)	44	
Max. limit switch range in Revolutions of the shaft	80	40
Operating mode (KB in min.)	4	
Length C (mm)	534	
Length D (mm)	517.5	
Length E (mm)	= 11	
Weight (kg)	1.2	1.3
Temperature range (°C)	−20 to +60	
Conformity	CE	
White motor head	•	–
Connecting cable pluggable (m)	2.0	

	SunTop S5/30	
Item Number	30 731.0001	

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

		SunTop S7/30 FL
Item Number		30 751.0001

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 50	
ProLine control units from page 211	
Radio receivers from page 188	
Brackets (M) Page 52	
Sensors from page 235	
Bracket adapters Page 53	
Brackets (S) in comb. with RevoLine head for motor Page 53	
Drive adapter sets Page 51	
L-brackets and bearings Page 54	

RevoLine S

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

VariEco S-868

Radio tubular drives for roller shutters and sun protection systems

VariEco S-868 (230 V/50 Hz)

Application:	**Roller shutter and textile sun protection**
Limit switch:	Mechanical limit switches
Shaft size:	From Ø = 38 mm
Features:	Noiseless soft brake up to 8 Nm
Radio system:	Bi-directional 868 MHz radio including routing

Possible limit switch modes

Upper limit switch	Lower limit switch
Freely programmable	Freely programmable

VariEco S-868
with white and black motor head

Technical data and dimensions
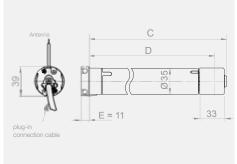
Type	VariEco S1.5/70-868	VariEco S3/30-868	VariEco S5/30-868	VariEco S5-868 FL	VariEco S8-868	VariEco S8-868 FL	VariEco S12-868 FL
Max. torque (Nm)	1.5	3	5		8		12
Speed (rpm)	70	30		17			
Roller shutter	–	•					
Textile sun protection	•						
Operating Voltage (V)	1 ~ 230						
Frequency (Hz)	50						
Noiseless soft brake	•		–	•		–	
Fast-running version	•		–				
Current (A)	0.55	0.73	0.60	0.73	0.60	0.73	
Power (W)	130	168	140	168	140	168	
Shaft Ø (mm)	38						
Ingress protection (IP)	44						
Max. limit switch range in Revolutions of the shaft	42						
Operating mode (KB in min.)	5	4					
Length C (mm)	534		514	534	514	534	
Length D (mm)	517.5		497.5	517.5	497.5	517.5	
Length E (mm)	= 11						
Weight (kg)	1.3						1.4
Temperature range (°C)	−20 to +60						
Conformity	CE						
Connecting cable pluggable (m)	2.0						
White motor head	•		–				
Accessories included	–		On request included (only on 17 rpm drives): "T"-head for motor to suit older Type 8 (restores backwards compatibility to Type 8 motors). RevoLine head for motor (item no. 99 000.7501) (enables use of RevoLine brackets)				

	VariEco S1.5/70-868	VariEco S3/30-868	VariEco S5/30-868				
Item Number	30 922.0106	30 912.0106	30 932.0106				

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

				VariEco S5-868 FL	VariEco S8-868	VariEco S8-868 FL	VariEco S12-868 FL
Item Number				30 844.0106	30 954.0106	30 854.0106	30 864.0106

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 50	Brackets (M) Page 52	Brackets (S) in comb. with RevoLine head for motor Page 53
Radio control units from page 167	Radio sensors from page 200	Drive adapter sets Page 51
Bracket adapters Page 53	L-brackets and bearings Page 54	Adjustment aid Page 50

VariEco S

Tubular drives for roller shutters and sun protection systems

VariEco S (230 V/50 Hz)

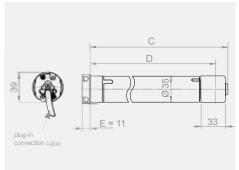|	
Application:	**Roller shutter and textile sun protection**
Limit switch:	Mechanical limit switches
Shaft size:	From Ø = 38 mm
Features:	Noiseless soft brake up to 8 Nm

Possible limit switch modes

Upper limit switch	Lower limit switch
Freely programmable	Freely programmable

VariEco S
with white and black motor head

Technical data and dimensions
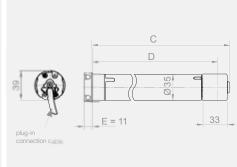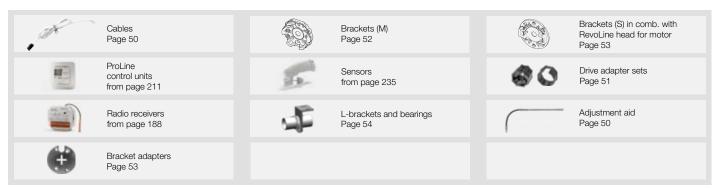
Type	VariEco S1.5/70	VariEco S3/30	VariEco S5/30	VariEco S5/30 FL	VariEco S5 FL	VariEco S8	VariEco S8 FL	VariEco S12 FL
Max. torque (Nm)	1.5	3	5			8		12
Speed (rpm)	70	30				17		
Roller shutter	–	•						
Textile sun protection	•							
Operating Voltage (V)	1 ~ 230							
Frequency (Hz)	50							
Noiseless soft brake	•		–		•		–	
Fast-running version	•			–				
Current (A)	0.55	0.73	0.60		0.73		0.60	0.73
Power (W)	130	168	140		168		140	168
Shaft Ø (mm)	38							
Ingress protection (IP)	44							
Max. limit switch range in Revolutions of the shaft	42							
Operating mode (KB in min.)	5	4						
Length C (mm)	534		514					534
Length D (mm)	517.5		497.5					517.5
Length E (mm)	= 11							
Weight (kg)	1.3		1.2			1.4		
Temperature range (°C)	–20 to +60							
Conformity	CE							
Connecting cable pluggable (m)	2.0							
White motor head	•				–			
Accessories included	–				On request included (only on 17 rpm drives): "T"-head for motor to suit older Type 8 (restores backwards compatibility to Type 8 motors). RevoLine head for motor (item no. 99 000.7501) (enables use of RevoLine brackets)			

	VariEco S1.5/70	VariEco S3/30	VariEco S5/30	VariEco S5/30 FL				
Item Number	30 921.0101	30 911.0101	30 931.0101	30 831.0101				

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

					VariEco S5 FL	VariEco S8	VariEco S8 FL	VariEco S12 FL
Item Number					30 843.0101	30 953.0101	30 853.0101	30 863.0101

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 50	Brackets (M) Page 52	Brackets (S) in comb. with RevoLine head for motor Page 53
ProLine control units from page 211	Sensors from page 235	Drive adapter sets Page 51
Radio receivers from page 188	L-brackets and bearings Page 54	Adjustment aid Page 50
Bracket adapters Page 53		

RevoLine S

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

VariEco S-K

Tubular drives for roller shutters and sun protection systems

VariEco S-K (230 V/50 Hz)

Application:	**Roller shutter and textile sun protection**
Limit switch:	Mechanical limit switches
Shaft size:	From Ø = 38 mm
Features:	Noiseless soft brake up to 8 Nm

Possible limit switch modes

Upper limit switch	Lower limit switch
Freely programmable	Freely programmable

VariEco S-K

C
D
Ø 35
39
E = 11
33
plug-in connection cable

Technical data and dimensions

Baugröße/Typ	VariEco S1.2/70-K	VariEco S3/30-K	VariEco S5-K
Max. torque (Nm)	1.2	3	5
Speed (rpm)	70	30	17
Roller shutter	–	•	
Textile sun protection	•		–
Operating Voltage (V)	1 ~ 230		
Frequency (Hz)	50		
Noiseless soft brake	•		
Current (A)	0.52		
Power (W)	120		
Shaft Ø (mm)	38		
Ingress protection (IP)	44		
Max. limit switch range in Revolutions of the shaft	33		
Operating mode (KB in min.)	4		
Length C (mm)	410		
Length D (mm)	393		
Length E (mm)	= 11		
Weight (kg)	1.2		
Temperature range (°C)	–20 to +60		
Conformity	CE		
Connecting cable pluggable (m)	3.0		
White motor head	•		
Accessories included	with 3.0 m connecting cable (not pluggable)		

	VariEco S1.2/70-K	VariEco S3/30-K	VariEco S5-K
Item Number	30 971.0101	30 991.0101	30 981.0101

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 50	Brackets (M) Page 52	Brackets (S) in comb. with RevoLine head for motor Page 53
ProLine control units from page 211	Sensors from page 235	Drive adapter sets Page 51
Radio receivers from page 188	L-brackets and bearings Page 54	Adjustment aid Page 50
Bracket adapters Page 53		

RevoLine S

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

Cables and accessories

It is not possible to return connecting cables.

Special cable lengths in combination with the drive (standard 2.0 m), **white**

Item Number	Type/Item Description
99 000.4101	2.0 m plug-in connecting cable (comes with drive as standard)
99 000.4201	3.0 m plug-in connecting cable
99 000.4301	5.0 m plug-in connecting cable
99 000.4401	10.0 m plug-in connecting cable
99 000.4801	20.0 m plug-in connecting cable
99 000.4501	0.4 m plug-in connecting cable with Hirschmann plug
99 000.7001	2.0 m plug-in connecting cable with Hirschmann plug
99 000.4601	3.0 m plug-in connecting cable universal push button (middle) and earthed plug

Special cable lengths in combination with the drive (standard 2.0 m), **black**

Item Number	Type/Item Description
99 000.5101	2.0 m plug-in connecting cable
99 000.5201	3.0 m plug-in connecting cable
99 000.5301	5.0 m plug-in connecting cable
99 000.5401	10.0 m plug-in connecting cable
99 000.5501	0.4 m plug-in connecting cable with Hirschmann plug
99 000.7701	2.0 m plug-in connecting cable with Hirschmann plug

Connecting cables without drive, **white**

23 395.0201	2.0 m plug-in connecting cable
23 395.0301	3.0 m plug-in connecting cable
23 395.0401	5.0 m plug-in connecting cable
23 395.0501	10.0 m plug-in connecting cable
23 395.0601	20.0 m plug-in connecting cable
23 395.0101	0.4 m plug-in connecting cable with Hirschmann plug
23 395.0801	2.0 m plug-in connecting cable with Hirschmann plug
23 395.0701	3.0 m plug-in connecting cable with universal push button (centred) and earthed plug

Connecting cables without drive, **black**

23 395.2201	2.0 m plug-in connecting cable
23 395.2301	3.0 m plug-in connecting cable
23 395.2401	5.0 m plug-in connecting cable
23 395.2501	10.0 m plug-in connecting cable
23 395.2101	0.4 m RevoLine cable with Hirschmann plug
23 395.2901	2.0 m plug-able with Hirschmann plug

Installation-, connecting cables and accessories

23 243.0002	Installation cable
23 246.0001	Installation cable with Hirschmann plug Stak 3
13 709.7301	5 pole connecting clip for installation cable 23 243.0002
23 395.2701	QuickConnect, the fast connection system, IP 65
23 395.4701	QuickConnect, set of 10
23 395.2601	QuickConnect with MiniPlug, IP 65 cable length 0.25 m
23 846.0001	Stas 3 with clip (motor side)
13 701.5301	Stak 3 (power supply side)
13 308.0001	Flexible adjustment aid

23 243.0002

23 246.0001

13 308.0001

23 395.2601

23 395.2701

Assembly and disassembly only in the de-energised state!
The connections to the 230V mains must be made by authorised specialist personnel.

Adapter sets

Profiles of the drive adapter sets in 1:1 scale on page 272.

23 028.0001

Item Number	Type/Item Description	Notch tubes	Round tubes	Profile tubes
22 017.0001	Ø 52 x 1.5 mm	•		
22 004.0001	Ø 63 x 1.0 mm	•		
22 011.0001	Ø 40 x 1.0 mm		•	
22 009.0001	Ø 40 x 1.5 mm		•	
13 119.0601	Ø 40 x 2.0 mm (only coupling) Ø 38 x 1.0 mm		•	
22 015.0001	Ø 42 x 1.0 mm		•	
22 071.0001	Ø 50 x 1.5 mm		•	
22 016.0001	Ø 50 x 2.0 mm, Italy		•	
22 010.0001	Octagonal a/f 40, Alu tube, Selve			•
23 097.0001	Ø 42 mm Aluminium, Silentgliss			•
22 013.0001	Ø 42 x 2.0 mm, Bautex, Sundrape			•
22 018.0001	Ø 43.5 mm, Tecnolight/Acmeda, Ø 44 mm, Garattoni			•
22 014.0001	Ø 45 mm, Zurflüh-Feller ZF 45			•
22 068.0001	Ø 47 mm			•
22 002.0001	AXE Ø 48 mm, Griesser-Hüppe			•
22 006.0001	Octagonal a/f 50, Selve			•
22 007.0001	Ø 50 x 1.5 mm, Siral			•
22 012.0001	Ø 50 mm, Alu			•
22 008.0001	54 x 0.5 mm, Zurflüh-Feller			•
22 005.0001	60 mm octagonal tube, Selve, Döhner			•
22 054.0001	Ø 50 mm, Alu, Latin America			•
13 101.5301	White limit switch crown only, Round tube 40x1.5mm (in combination with 22 009.0001)		•	
13 121.3001	Adapter for S motor to use M Series drive adapter			
23 028.0001	Adapter for Somfy adapter set			

RevoLine S

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

RevoLine motor adapter plate

99 000.7501

Utilize to use S drive in RevoLine brackets below. Order by this Item number if you want the item mounted on the motor you order.

22 145.0001

Same as 99 00.7501 if you need a spare or for retrofitting an existing drive.
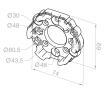
RevoLine motor bearings in combination with mounting plate

23 004.0001
Universal wall bracket (plastic)
max. 50 Nm
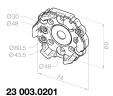
23 615.4401
Disengageable
max. 30 Nm

23 003.0001
48/60 mm centres (Alloy)

23 003.0201
Motor bearing 48/60 mm centres (Alloy) with nuts 4 x M6 and 12.5 mm hole in plastic center ring

23 003.0301
Motor bearing with 48/60 mm centres (Alloy) with M6/M8 thread

SKS

23 004.0101
max. 50 Nm

Base plate

23 615.9901
With motor bearing (e.g. for VEKA Variant elements)

Mounting plate with motor bearing

23 615.7101
Plastic max. 30 Nm (Thyssen, Schüco, Veka, Home)

23 615.9101
60 mm offset for replacing manual roller shutter belt
max. 50 Nm

Clamp bearing

23 615.7201
For roller bearing bracket
max. 30 Nm

screwless left

23 615.8201
For built-on roller shutters, size 137 mm
d = 64 – 65.5 mm,
up to max. 30 Nm

screwless right

23 615.9201
For built-on roller shutters, size 137 mm
d = 64 – 65.5 mm,
up to max. 30 Nm

screwless left

23 615.8301
For built-on roller shutters, size 150 mm
d = 70.7 mm,
up to max. 30 Nm

screwless right

23 615.9301
For built-on roller shutters, size 150 mm
d = 70.7 mm,
up to max. 30 Nm

screwless left

23 615.8401
For built-on roller shutters, size 165 mm
d = 78.2 – 79.7 mm,
up to max. 30 Nm

screwless right

23 615.9401
For built-on roller shutters, size 165 mm
d = 78.2 – 79.7 mm,
up to max. 30 Nm

screwless left

23 003.1501
For Heroal elements FMR/FME/FMB size 125–205 mm

screwless right

23 003.1401
For Heroal elements FMR/FME/FMB size125–205 mm

screwless left + right

23 003.1601
For Heroal elements FMR/FME/FMB size 125–205 mm
up to max. 30 Nm

Type 8 Motor adapter plate

99 000.7401

Utilize to use S drive in RevoLine brackets below. Order by this Item number if you want the item mounted on the motor you order.

22 141.0001

Same as 99 00.7401 if you need a spare or for retrofitting an existing drive.

22 144.0001

Same as 99 00.7401, white. If you need a spare or for retrofitting an existing drive.

Type 8 motor bracket

23 322.0001
T-head motor bearing 48/60 mm centres

23 108.0001
T-head motor bearing 48/60 mm centres

23 277.0001
T-head motor bearing (Thyssen, Schüco, Brügmann)

T-motor head, mounting- and adapter plates

Adapter plate kit

22 145.0001
Motor head add-on for use of S motors in RevoLine wall brackets

Adapter plates

22 141.0001
T-motor head add-on orange, complete, including mounting accessories

22 144.0001
T-motor head add-on white, complete, including mounting

22 140.0001
Round motor head add-on without wings, orange, complete, including mounting accessories
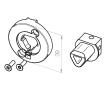
22 042.0001
Round motor head add-on white, complete, including mounting accessories

22 042.0101
Round motor head add-on white, complete, including mounting accessories

Kit square bolt

22 143.0001
Round motor head add-on incl. 16 x 16 mm motor bolt, max. 5 Nm

23 367.0001
Motor head add-on with bolt 16 x 16 mm including fixing screws

Motor bolt add ons

22 040.0001
10 x 10 mm, complete, including mounting accessories

23 099.0001
With bolt 10 x 6.5 mm (11 mm high), including fixing screws

Mounting plates

22 064.0001
Cross slot = 13 mm complete, including mounting accessories

22 065.0001
Slot = 16.4 mm complete, including mounting accessories
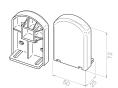
22 080.0001
(Slot 15 x 3 mm), Benthin including mounting accessories

Only the * signed adapter plates are suitable for VariEco S-K drives.

RevoLine S

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

Blinds accessories – bearings

Only while stocks last!

Drive bearing

13 114.9001
Alpine white
for 16 x 16 mm bolts
max. 5 Nm
shaft height 42 mm

Idler bearing

13 114.8901
Alpine white
for bolts Ø 10 mm
shaft height 42 mm

23 013.0002
For 40 x 2.0 mm tube or
Limit switch, crown with
spring loaded, 10 mm bolt

23 013.0001
With movable bolt
Ø 10 mm for tube
40 x 1.0 mm

Blinds accessories – shaft height 42 mm

Motor bearings complete

23 095.0001
With square 16 x 16 mm
standard version 42 mm

Intermediate fixing supports

23 203.0001
Complete up to 5 Nm
standard version 42 mm

Shaft bearings complete

23 096.0001
With outer Ø 35.5 mm
standard version 42 mm

Blinds accessories – shaft height 60 mm

Motor bearings complete

23 095.0101
With square 16 x 16 mm
extended version 60 mm

Intermediate fixing supports

23 203.0101
Complete up to 5 Nm
extended version 60 mm

Shaft bearings complete

23 096.0101
With outer Ø 35.5 mm
extended version 60 mm

Bearing brackets

13 109.1701
Plastic
Motor side, max. 20 Nm
with square 16 x 16 mm
shaft height 60 mm

13 109.1801
Plastic
Ø 10 mm,
opposite side
shaft height 60 mm

Mounting plates and mounting assessories

Plaster-in bracket

13 300.9202
max. 80 Nm
For plastering into wall

Mounting plate

24 554.0001
For wall bracket
(23 004.0001 and
23 615.4401)

13 302.2601
For Motor bearing
(Stakusit)
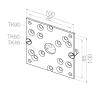
13 302.7801
48/60/78 mm centres
for Weru
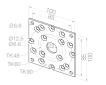
23 457.0001
Universal adapter plate
for Shutter side plate

Universal adapter plate set

23 687.0501
With 2 countersunk
screws M6 x 16 and nuts

13 109.2902
48/60/85/90 mm centres

Angle brackets

13 110.5001
80 mm high

13 110.5101
130 mm high

13 110.5201
180 mm high

Roller bearing holder brackets

23 852.0001
90 mm wide

Spring clips

13 301.8201
For 40 mm octagonal
tube to support roller
shutter fixing spring

13 301.8501
For 50 mm octagonal tube
to support roller shutter
fixing spring

RevoLine S

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles
Lifting capacity tables

Rigid shaft fastener MiniClick and MaxiClick

Universal for octagonal tubes, 40, 50, 60 and 70 mm

MiniClick, with twist lock

For mini profiles and octagonal shafts size SW 40, 50 (0.6 and 0.8 mm) and SW 60 (0.6 and 0.9 mm)

Item Number	Type/Item Description
13 309.0001	MiniClick, 1 section
13 309.0101	MiniClick, 2 sections
13 309.0201	MiniClick, 3 sections
13 309.0301	MiniClick, 4 sections
13 309.0401	MiniClick profile insert
13 309.0501	MiniClick profile spacer insert

MaxiClick, with twist lock

For standard profiles and octagonal shaft size SW 60 (0.9 mm) and SW 70 (1.0 / 1.2 and 1.5 mm)

Item Number	Type/Item Description
13 309.1001	MaxiClick, 1 section
13 309.1101	MaxiClick, 2 sections
13 309.1201	MaxiClick, 3 sections
13 309.1401	MaxiClick profile insert
13 309.1501	MaxiClick profile spacer insert

MiniClick selection table

Shaft fastener	By box depth B[1] (mm)	Number/ shutter	Shutter weight (kg)	Application range
1 section	115 – 150	Use minimum 1 fastener every 60 cm or 4 Nm drive torque	max. 8 / shaft fastener	Mini- / Maxi-Profil[1]
2 sections	155 – 180			
3 sections	185 – 210			
4 sections	215 – 240			

MaxiCLick selection table

Shaft fastener	By box depth B[1] (mm)	Number/ shutter	Shutter weight (kg)	Application range
1 section	125 – 160	Use minimum 1 fastener every 60 cm or 6 Nm drive torque.	max. 12 / shaft fastener	Mini- / Maxi-Profil[1]
2 sections	160 – 200			
3 sections	200 – 250			

[1] Select MiniClick or MaxiClick by Shaft size.

The top most profile slat should not be exposed by more than 1/2 profile height above the guide rails (A).
Anti-push up will only work if the slats a compressed and can exert upwards pressure against the Anti-push up device.

Anti push-up devices

Anti push-up device mini profile

13 301.8901
2 sections

13 301.9101
3 sections

Fixing rings

Ø69

13 301.9401
for 40 mm
octagonal shaft

13 302.1501
for 50 mm
octagonal shaft

RevoLine S

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

RevoLine M
– Powerful drives!

The tubular motors in the M series are available in the versions RolTop, SunTop and VariEco, and with or without an integrated radio system. Thus elero offers a wide and varied product range to cover a diversity of applications. With a diameter of 45 mm and lengths of 405 mm upwards (K version) the drives are ideal for space-saving systems. Depending on the application and the drive type these are available with 2.5 to 50 Nm and, depending on the version, 14 to 90 rpm. For environments in which noise is particularly disturbing it is possible to deploy drives (max. 20 Nm) with a noiseless "soft" brake. All the drives may be installed and set up quickly and easily. With the RH and SH tubular motors the area of application for the M series has been expanded. The main feature of the RH drives is the fact that the round motor head may be mounted within the shutter, thus reducing the amount of space required at the side considerably. Drives from the SH series fit the motor mountings of various third-party providers.

RolTop M-868 /-K

Radio tubular drives for roller shutters

RolTop M-868 /-K

Application:	**Roller shutter***

Limit switch: Electronic limits with Soft Stop on end position approach
(on motors with soft brake)
Highlights: Smart force measurement
Application protection in up and down direction
and reversion on obstacle
Limits can be adjusted via radio remote control or installation lead
Plug-able cable
Shaft size: From Ø = 50 mm
Features: Noiseless soft brake up to 20 Nm
Radio system: Bi-directional 868 MHz radio including routing

* Drive might stop on heavy wind load to protect drive.

Possible limit switch modes

Upper limit switch	Lower limit switch
On limit stop	Freely programmable
Freely programmable	On limit stop
On limit stop	On limit stop
Freely programmable	Freely programmable

RolTop M-868

– elero standard RevoLine motor head
– Small side gap
– Suitable for all elero RevoLine wall brackets

Antenna
55
plug-in connection cable
E=14
C
D
Ø 45
33

RolTop M-868 RH

– Elero round head
– Can be over wound
– Minimal side gap
– Very versatile

Antenna
52.7
plug-in connection cable
E=12
C
D
Ø 45
33

RolTop M-868 SH

– Somfy star head design
– Same side gap like Somfy

Antenna
57.5
plug-in connection cable
E=19
C
D
Ø 45
33

Technical data and dimensions

| Type	RolTop M6-868	RolTop M7/23-868	RolTop M10-868	RolTop M10-868-K	RolTop M12/23-868	RolTop M20-868	RolTop M30-868	RolTop M40-868	RolTop M50-868
Max. torque (Nm)	6	7	10		12	20	30	40	50
Speed (rpm)	14	23	14		23	14			
Operating Voltage (V)	1 ~ 230	230 – 240 V ~		1 ~ 230					
Frequency (Hz)	50								
Noiseless soft brake			•				–		
Fast-running version	–	•	–		•	–			
Current (A)	0.52	0.6	0.6			0.9		1.2	1.3
Power (W)	118	140				200		270	300
Shaft Ø (mm)	50								
Ingress protection (IP)	44								
Max. limit switch range in Revolutions of the shaft	40								
Operating mode (KB in min.)	4	5	4		5	4		5	4
Length C (mm)	445	466	391		526		516	546	
Length D (mm)	428.5	449	374.5		509.5		499.5	529.5	
Length E (mm)			= 14	= 12	= 19				
Weight (kg)	1.6	1.7	1.5		1.9	2.1	2.2	2.6	3.1
Temperature range (°C)	–20 to +60								
Conformity	CE								
Connecting cable pluggable (m)	2.0								

	RolTop M6-868	RolTop M7/23-868	RolTop M10-868	RolTop M10-868-K	RolTop M12/23-868	RolTop M20-868	RolTop M30-868	RolTop M40-868	RolTop M50-868
Item Number	34 302.0006	34 226.0006	34 222.0006	34 112.0006	34 236.0006	34 232.0006	34 242.0006	34 252.0006	34 262.0006

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

		RolTop M7/23-868 RH	RolTop M10-868 RH	RolTop M10-868-K RH	RolTop M12/23-868 RH	RolTop M20-868 RH	RolTop M30-868 RH		
Item Number		38 226.0006	38 222.0006	38 112.0006	38 236.0006	38 232.0006	38 242.0006		

Mounting explanation on page 98!

	RolTop M6-868 SH		RolTop M10-868 SH			RolTop M20-868 SH	RolTop M30-868 SH	RolTop M40-868 SH	RolTop M50-868 SH
Item Number	39 302.0006		39 222.0006			39 232.0006	39 242.0006	39 252.0006	39 262.0006

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 94	
Radio control units from page 167	
Bolt for RH drives Page 98	
Drive adapter sets Page 95	
Radio sensors from page 200	
Brackets Pages 96 and 98	
Rigid shaft fastener Page 100	

Side tab labels: RevoLine M · Type 9 + 11 · Venetian blind drives · Speciality drives · Hausautomation, radio controls, radio sensors · Hardwired controls sensors · Door drives · Door controls · Adapter profiles Lifting capacity tables

RolTop M-868 fast running versions

Radio tubular drives with softstart for roller shutters, blinds, insect screens

---

RolTop M-868 fast running version

Application:	**Roller shutter, blinds, insect protection and screens***
Limit switch:	Electronic limits with Soft Stop on end position approach
Highlights:	Smart force measurement
	Application protection in up and down direction
	and reversion on obstacle
	Optional torque release programmable on torque limit position(s)
	Limits can be adjusted via radio remote control or installation lead
Shaft size:	From Ø = 50 mm
Features:	Noiseless soft brake up to 20 Nm
Radio system:	Bi-directional 868 MHz radio including routing
	* Drive might stop on heavy wind load to protect drive.

Possible limit switch modes
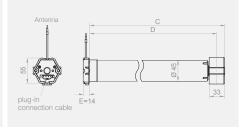
Upper limit switch	Lower limit switch
On limit stop	Freely programmable
Freely programmable	On limit stop
On limit stop	On limit stop
Freely programmable	Freely programmable

RolTop M-868
fast running version
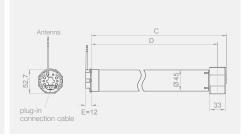
– elero standard RevoLine motor head
– Small side gap
– Suitable for all elero RevoLine wall brackets

RolTop M-868 RH
fast running version

– Elero round head
– Can be over wound
– Minimal side gap
– Very versatile

Technical data and dimensions

Type	RolTop M2.5/90-868	RolTop M4/60-868	RolTop M6/35-866	RolTop M7/23-868	RolTop M9/35-868	RolTop M12/23-868
Max. torque (Nm)	2.5	4	6	7	9	12
Speed (rpm)	90	60	35	23	35	23
Operating Voltage (V)	1 ~ 230			230 – 240 V ~	1 ~ 230	
Frequency (Hz)	50					
Noiseless soft brake			•		–	•
Fast-running version			•			
Current (A)		0.9		0.6	0.9	
Power (W)		200		140	200	
Shaft Ø (mm)	50					
Ingress protection (IP)	44					
Max. limit switch range in Revolutions of the shaft	40					
Operating mode (KB in min.)	5					
Length C (mm)		526		466	516	526
Length D (mm)		509		449.5	499.5	509
Length E (mm)			⬡ = 14	● = 12		
Weight (kg)		1.9		1.8	2.0	1.9
Temperature range (°C)	−20 to +60					
Conformity	CE ⌂ 🛡					
Connecting cable pluggable (m)	2.0					
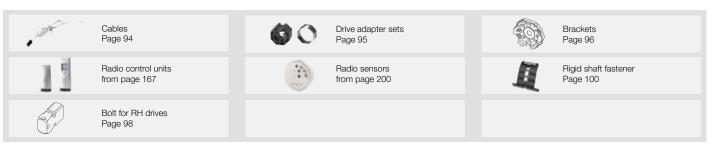
	RolTop M2.5/90-868		RolTop M6/35-868	RolTop M7/23-868	RolTop M9/35-868	RolTop M12/23-868
Item Number	34 160.0006		34 238.0006	34 226.0006	34 248.0006	34 236.0006

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

	RolTop M2.5/90-868 RH	RolTop M4/60-868 RH	RolTop M6/35-868 RH	RolTop M7/23-868 RH	RolTop M9/35-868 RH	RolTop M12/23-868 RH
Item Number	38 160.0006	38 460.0006	38 438.0006	38 226.0006	38 448.0006	38 236.0006

Mounting explanation on page 98!

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

	Cables Page 94		Drive adapter sets Page 95		Brackets Page 96
	Radio control units from page 167		Radio sensors from page 200		Rigid shaft fastener Page 100
	Bolt for RH drives Page 98				

elero

RevoLine M

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

RolTop M /-K

Tubular drives for roller shutters

RolTop M /-K

Application:	Roller shutter*
Limit switch:	Electronic limits with Soft Stop on end position approach (on motors with soft brake)
Highlights:	Smart force measurement
	Application protection in up and down direction and reversion on obstacle (excl. RolTop M10-K)
	Limits can be adjusted via installation lead
	Plug-able cable
	Parallel connection possible
Shaft size:	From Ø = 50 mm
Features:	Noiseless soft brake up to 20 Nm
	Drive might stop on heavy wind load to protect drive.
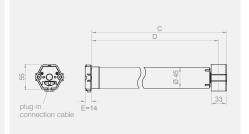
Possible limit switch modes

Upper limit switch	Lower limit switch
On limit stop	Freely programmable
Freely programmable	On limit stop
On limit stop	On limit stop
Freely programmable	Freely programmable

RolTop M

– elero standard RevoLine motor head
– Small side gap
– Suitable for all elero RevoLine wall brackets

RolTop M RH

– Elero round head
– Can be over wound
– Minimal side gap
– Very versatile

RolTop M SH

– Somfy star head design
– Same side gap like Somfy

Technical data and dimensions
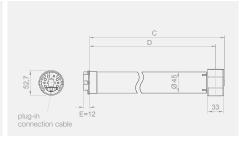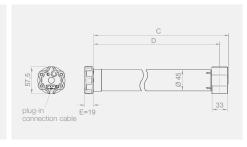
| Type	RolTop M6	RolTop M7/23	RolTop M10	RolTop M10-K	RolTop M12/23	RolTop M20	RolTop M30	RolTop M40	RolTop M50
Max. torque (Nm)	6	7	10		12	20	30	40	50
Speed (rpm)	14	23	14		23	14			
Operating Voltage (V)	1 ~ 230	230 – 240 V ~	1 ~ 230						
Frequency (Hz)	50								
Noiseless soft brake	•							–	
Fast-running version	–	•	–		•	–			
Current (A)	0.52	0.6			0.9			1.2	1.3
Power (W)	118	140			200			270	300
Shaft Ø (mm)	50								
Ingress protection (IP)	44								
Max. limit switch range in Revolutions of the shaft	40								
Operating mode (KB in min.)	5			4				5	4
Length C (mm)	446	466	391		526	516		546	
Length D (mm)	429.5	449.5	374.5		509.5	499.5		529.5	
Length E (mm)			⬤ = 14	⬤ = 12	⬤ = 19				
Weight (kg)	1.6	1.7	1.9		2.2	2.3		2.5	3.1
Temperature range (°C)	−20 to +60								
Conformity	CE ⌂ ▦								
Connecting cable pluggable (m)	2.0								

	RolTop M6	RolTop M7/23	RolTop M10	RolTop M10-K	RolTop M12/23	RolTop M20	RolTop M30	RolTop M40	RolTop M50
Item Number	34 301.0001	34 225.0001	34 221.0001	34 111.0001	34 235.0001	34 231.0001	34 241.0001	34 251.0001	34 261.0001

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.
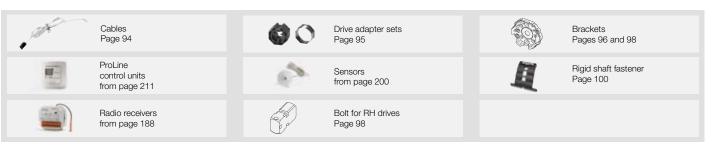
		RolTop M7/23 RH	RolTop M10 RH	RolTop M10-K RH	RolTop M12/23 RH	RolTop M20 RH	RolTop M30 RH		
Item Number		38 225.0001	38 221.0001	38 111.0001	38 235.0001	38 231.0001	38 241.0001		

Mounting explanation on page 98! *All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.*

	RolTop M6 SH		RolTop M10 SH			RolTop M20 SH	RolTop M30 SH	RolTop M40 SH	RolTop M50 SH
Item Number	39 301.0001		39 221.0001			39 231.0001	39 241.0001	39 251.0001	39 261.0001

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables
Page 94

Drive adapter sets
Page 95

Brackets
Pages 96 and 98

ProLine
control units
from page 211

Sensors
from page 200

Rigid shaft fastener
Page 100

Radio receivers
from page 188

Bolt for RH drives
Page 98

RolTop M fast running versions

Tubular drives with soft start for blinds and insect screens

RolTop M fast running version

Application:	**Roller shutter, blinds and insect screens**
Limit switch:	Electronic limits with Soft Stop on end position approach (on motors with soft brake)
Highlights:	Soft start
	Smart force measurement
	Application protection in up and down direction and reversion on obstacle
	Limits can be adjusted via installation lead
	Plug-able cable
	Parallel connection possible
Shaft size:	From Ø = 50 mm
Features:	Noiseless soft brake (excl. RolTop M12/23)
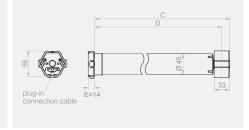
Possible limit switch modes

Upper limit switch	Lower limit switch
On limit stop	Freely programmable
Freely programmable	On limit stop
On limit stop	On limit stop
Freely programmable	Freely programmable

RolTop M fast running version
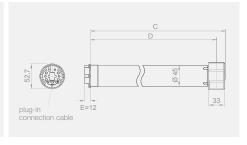
– elero standard RevoLine motor head
– Small side gap
– Suitable for all elero RevoLine wall brackets

55

plug-in connection cable

C
D
E=14
Ø 45
33

RolTop M RH fast running version

– Elero round head
– Can be over wound
– Minimal side gap
– Very versatile

52,7

plug-in connection cable

C
D
E=12
Ø 45
33

Technical data and dimensions

Type	RolTop M2.5/90	RolTop M4/60	RolTop M6/35	RolTop M7/23	RolTop M9/35	RolTop M12/23
Max. torque (Nm)	2.5	4	6	7	9	12
Speed (rpm)	90	60	35	23	35	23
Operating Voltage (V)	1 ~ 230			230 – 240 V ~	1 ~ 230	
Frequency (Hz)	50					
Noiseless soft brake		•		•	–	•
Fast-running version			•			
Current (A)	0,9			0,6	0,9	
Power (W)	200			140	200	
Shaft Ø (mm)	50					
Ingress protection (IP)	44					
Max. limit switch range in Revolutions of the shaft	40					
Operating mode (KB in min.)	5					
Length C (mm)	526			466	516	506
Length D (mm)	509			449.5	499	509
Length E (mm)	= 14 = 12					
Weight (kg)	1.9			1.7	2.0	2.2
Temperature range (°C)	−20 to +60					
Conformity	CE					
Connecting cable pluggable (m)	2.0					
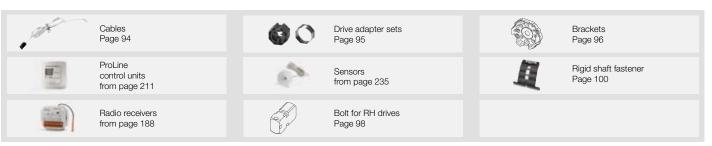
	RolTop M2.5/90		RolTop M6/35	RolTop M7/23	RolTop M9/35	RolTop M12/23
Item Number	34 169.0001		34 237.0001	34 225.0001	34 247.0001	34 235.0001

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

	RolTop M2.5/90 RH	RolTop M4/60 RH		RolTop M7/23 RH		RolTop M12/23 RH
Item Number	38 169.0001	38 469.0001		38 225.0001		38 235.0001

Mounting explanation on page 98!

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 94		Drive adapter sets Page 95	Brackets Page 96
ProLine control units from page 211		Sensors from page 235	Rigid shaft fastener Page 100
Radio receivers from page 188		Bolt for RH drives Page 98	

RevoLine M

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

RolSmart M /-K

Tubular drives for roller shutters
K-Version as short model

RolSmart M /-K (230 V/50 Hz)

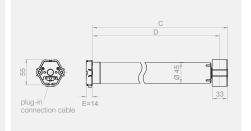|	
Application:	**Roller shutter**
Limit switch:	Electronic limits with Soft Stop on end position approach
Highlights:	Smart force measurement
	Application protection in up and down direction
	Limits can be adjusted via installation lead
	Plug-able cable
Shaft size:	From Ø = 50 mm
Features:	Noiseless soft brake
	Parallel connection impossible
	Requires at least one torque stop

Possible limit switch modes

Upper limit switch	Lower limit switch
On limit stop	Freely programmable
Freely programmable	On limit stop
On limit stop	On limit stop
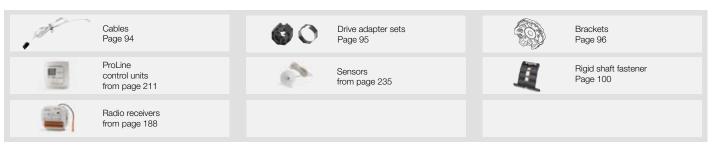
– elero standard RevoLine motor head
– Minimal side gap
– Suitable for all elero RevoLine wall brackets

Technical data and dimensions

Type	RolSmart M10-K	RolSmart M20
Max. torque (Nm)	10	20
Speed (rpm)	14	
Operating Voltage (V)	1 ~ 230	
Frequency (Hz)	50	
Noiseless soft brake	•	
Current (A)	0.6	0.9
Power (W)	140	200
Shaft Ø (mm)	50	
Ingress protection (IP)	44	
Max. limit switch range in Revolutions of the shaft	40	
Operating mode (KB in min.)	4	
Length C (mm)	391	526
Length D (mm)	374.5	509
Length E (mm)	⬡ = 14	
Weight (kg)	1.6	1.9
Temperature range (°C)	−20 to +60	
Conformity	CE ⌂	
Connecting cable pluggable (m)	2.0	

	RolSmart M10-K	RolSmart M20
Item Number	34 011.0001	34 131.0002

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 94	Drive adapter sets Page 95	Brackets Page 96
ProLine control units from page 211	Sensors from page 235	Rigid shaft fastener Page 100
Radio receivers from page 188		

RevoLine M

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

RolTop/D+ M-868

Tubular drives for roller shutters – torque mode only motor

No limit setting required!
(requires torque stop in both directions)

RolTop/D+ M-868

Application:	**Roller shutter**
Limit switch:	Electronic limits with Soft Stop on end position approach
Highlights:	Smart force measurement
	Application protection in up and down direction
	and reversion on obstacle
	End limits are self-learning
	Plug-able cable
Features:	Noiseless soft brake up to 20 Nm
Radio system:	Bi-directional 868 MHz radio including routing
Limitations:	Only possible to use with torque stops in both directions

Possible limit switch modes
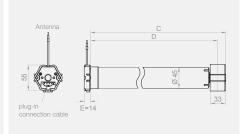
Upper limit switch	Lower limit switch
On limit stop	On limit stop

RolTop/D+ M-868
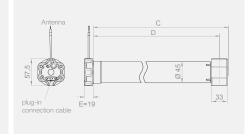
– elero standard RevoLine motor head
– Small side gap
– Suitable for all elero RevoLine wall brackets

Antenna

55

plug-in connection cable

E=14

C
D
Ø 45
33

RolTop/D+ M-868 SH

– Somfy star head design
– Same side gap like Somfy

Antenna

57,5

plug-in connection cable

E=19

C
D
Ø 45
33

Technical data and dimensions
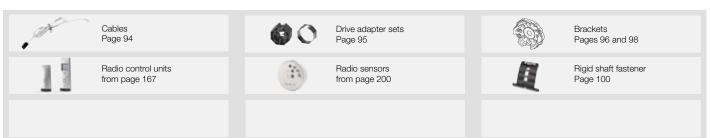
Type	RolTop D+ M6-868	RolTop D+ M10-868	RolTop D+ M20-868	RolTop D+ M30-868
Max. torque (Nm)	6	10	20	30
Speed (rpm)	14			
Operating Voltage (V)	1 ~ 230	230 – 240 V ~	1 ~ 230	
Frequency (Hz)	50			
Noiseless soft brake		•		–
Fast-running version	–			
Current (A)	0.52	0.6	0.9	
Power (W)	118	140	200	
Shaft Ø (mm)	50			
Ingress protection (IP)	44			
Max. limit switch range in Revolutions of the shaft	40			
Operating mode (KB in min.)	4	5	4	
Length C (mm)	446	466	526	516
Length D (mm)	429,5	449.5	509.5	499.5
Length E (mm)	⬢ = 14 ⬢ = 19			
Weight (kg)	1.4	1.8	2.2	2.3
Temperature range (°C)	−20 to +60			
Conformity	CE 🏠			
Connecting cable pluggable (m)	2.0			

	RolTop D+ M6-868	RolTop D+ M10-868	RolTop D+ M20-868	RolTop D+ M30-868
Item Number	34 014.0006	34 024.0006	34 034.0006	34 044.0006

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

		RolTop D+ M10-868 SH	RolTop D+ M20-868 SH	RolTop D+ M30-868 SH
Item Number		39 024.0006	39 034.0006	39 044.0006

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 94	Drive adapter sets Page 95	Brackets Pages 96 and 98
Radio control units from page 167	Radio sensors from page 200	Rigid shaft fastener Page 100

RevoLine M
Type 9 + 11
Venetian blind drives
Speciality drives
Hausautomation, radio controls, radio sensors
Hardwired controls sensors
Door drives
Door controls
Adapter profiles
Lifting capacity tables

RolTop/D+ M

Tubular drives for roller shutters – torque mode only motor

No limit setting required!
(requires torque stop in both directions)

RolTop/D+ M

Application:	**Roller shutter**
Limit switch:	Electronic limits with Soft Stop on end position approach
Highlights:	Smart force measurement
	Application protection in up and down direction
	and reversion on obstacle
	Parallel connection possible
	End limits are self-learning
	Plug-able cable
Shaft size:	From Ø = 50 mm
Features:	Noiseless soft brake up to 20 Nm
Limitations:	Only possible to use with torque stops in both directions

Possible limit switch modes

Upper limit switch	Lower limit switch
On limit stop	On limit stop

RolTop/D+ M

– elero standard RevoLine motor head
– Small side gap
– Suitable for all elero RevoLine wall brackets

55
Ø 45
C
D
33
plug-in connection cable
E=14
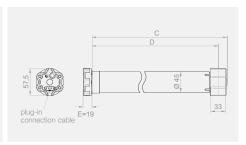
RolTop/D+ M SH

– Somfy star head design
– Same side gap like Somfy

57.5
Ø 45
C
D
33
plug-in connection cable
E=19

Technical data and dimensions
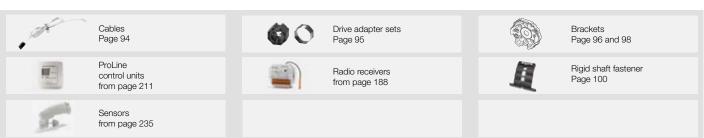
Type	RolTop/D+ M6	RolTop/D+ M10	RolTop/D+ M20	RolTop/D+ M30
Max. torque (Nm)	6	10	20	30
Speed (rpm)	14			
Operating Voltage (V)	1 ~ 230	230 – 240 V ~	1 ~ 230	
Frequency (Hz)	50			
Noiseless soft brake		•		–
Fast-running version	–			
Current (A)	0.52	0.6	0.9	
Power (W)	118	140	200	
Shaft Ø (mm)	50			
Ingress protection (IP)	44			
Max. limit switch range in Revolutions of the shaft	40			
Operating mode (KB in min.)	4	5	4	
Length C (mm)	446	466	526	516
Length D (mm)	429.5	449.5	509.5	499.5
Length E (mm)	= 14 = 19			
Weight (kg)	1.4	1.9		
Temperature range (°C)	−20 to +60			
Conformity	CE			
Connecting cable pluggable (m)	2.0			

	RolTop/D+ M6	RolTop/D+ M10	RolTop/D+ M20	RolTop/D+ M30
Item Number	34 013.0001	34 023.0001	34 033.0001	34 043.0001

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

		RolTop/D+ M10 SH	RolTop/D+ M20 SH	RolTop/D+ M30 SH
Item Number		39 023.0001	39 033.0001	39 043.0001

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 94	Drive adapter sets Page 95	Brackets Page 96 and 98	
ProLine control units from page 211	Radio receivers from page 188	Rigid shaft fastener Page 100	
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RevoLine M

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

RolTop s_onro M-868

Radio tubular drives with soft stop downwards for s_onro roller shutters

RolTop s_onro M-868

Application:	**Roller shutter**
Limit switch:	Electronic limits with Soft Stop on end down position
Highlights:	Smart force measurement
	Blockage detection Up/Down
	Limits can be adjusted via radio remote control or installation lead
	Plug-able cable
Shaft size:	From Ø = 50 mm
Features:	Soft stop downwards
	Noiseless soft brake up to 20 Nm
Radio system:	Bi-directional 868 MHz radio including routing

Possible limit switch modes

Upper limit switch	Lower limit switch
On limit stop	Freely programmable
Freely programmable	On limit stop
On limit stop	On limit stop
Freely programmable	Freely programmable

– eloro standard RevoLine motor head
– Small side gap
– Suitable for all elero RevoLine wall brackets

Antenna

C
D

55

Ø 45

33

plug-in
connection cable

E=14

Technical data and dimensions

Type	RolTop s_onro M10-868	RolTop s_onro M20-868	RolTop s_onro M30-868
Max. torque (Nm)	**10**	**20**	**20**
Speed (rpm)		**14**	
Operating Voltage (V)	230 – 240 V~	1 ~ 230	
Frequency (Hz)		50	
Noiseless soft brake		•	–
Current (A)	0.6	0.9	
Power (W)	140	200	
Shaft Ø (mm)		50	
Ingress protection (IP)		44	
Max. limit switch range in Revolutions of the shaft		40	
Operating mode (KB in min.)	5	4	
Length C (mm)	466	526	516
Length D (mm)	449.5	509.5	449.5
Length E (mm)		⬡ = 14	
Weight (kg)	1.9	2.2	2.3
Temperature range (°C)		−20 to +60	
Conformity		CE ⌂	
Connecting cable pluggable (m)		2.0	

	RolTop s_onro M10-868	RolTop s_onro M20-868	RolTop s_onro M30-868
Item Number	**34 222.5606**	**34 232.5606**	**34 242.5606**

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 94	Drive adapter sets Page 95	Brackets Page 96
Radio control units from page 167	Radio sensors from page 200	Rigid shaft fastener Page 100

Side tabs: RevoLine M · Type 9 + 11 · Venetian blind drives · Speciality drives · Hausautomation, radio controls, radio sensors · Hardwired controls sensors · Door drives · Door controls · Adapter profiles Lifting capacity tables

RolTop Sonro M

Tubular drives with soft stop downwards for S_onro roller shutters

RolTop Sonro M	
Application:	**Roller shutter**
Limit switch:	Electronic limits with Soft Stop on end down position
Highlights:	Smart force measurement
	Blockage detection Up/Down
	Limits can be adjusted via or installation lead
	Plug-able cable
	Parallel connection possible
Shaft size:	From Ø = 50 mm
Features:	Soft stop downwards
	Noiseless soft brake up to 20 Nm
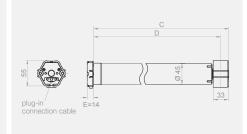
Possible limit switch modes

Upper limit switch	Lower limit switch
On limit stop	Freely programmable
Freely programmable	On limit stop
On limit stop	On limit stop
Freely programmable	Freely programmable

– elero standard RevoLine motor head
– Small side gap
– Suitable for all elero RevoLine wall brackets

Technical data and dimensions

Type	RolTop s_onro M10	RolTop s_onro M20	RolTop s_onro M30
Max. torque (Nm)	10	20	30
Speed (rpm)		14	
Operating Voltage (V)	230 – 240 V~	1 ~ 230	
Frequency (Hz)		50	
Noiseless soft brake		•	–
Current (A)	0.6	0.9	
Power (W)	140	200	
Shaft Ø (mm)		50	
Ingress protection (IP)		44	
Max. limit switch range in Revolutions of the shaft		40	
Operating mode (KB in min.)	5	4	
Length C (mm)	466	526	516
Length D (mm)	449.5	509.5	499.5
Length E (mm)		= 14	
Weight (kg)	1.9	2.2	2.3
Temperature range (°C)		−20 to +60	
Conformity		CE	
Connecting cable pluggable (m)		2.0	

	RolTop s_onro M10	RolTop s_onro M20	RolTop s_onro M30
Item Number	34 221.5601	34 231.5601	34 241.5601

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

	Cables Page 94		Drive adapter sets Page 95		Brackets Page 96
	ProLine control units from page 211		Rigid shaft fastener Page 100		
	Radio receivers from page 188				

RevoLine M

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

RolTop/J M-868

Radio tubular drives for special roller shutters with louvre function

RolTop/J M-868

Application:	**Roller shutter with louvre function**
Limit switch:	Electronic limits with Soft Stop on end position approach
Highlights:	Smart force measurement
	Application protection in up and down direction
	and reversion on obstacle
	Limits can be adjusted via radio remote control or installation lead
	Plug-able cable
Shaft size:	From Ø = 50 mm
Features:	Noiseless soft brake up to 20 Nm
	Drive suitable for tilt-able roller shutters
	Includes special 2nd lower end position for opening shutter
	to tilt position
Radio system:	Bi-directional 868 MHz radio including routing
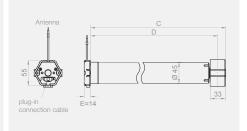
Possible limit switch modes

Upper limit switch	Lower limit switch
On limit stop	Freely programmable
Freely programmable	On limit stop
On limit stop	On limit stop
Freely programmable	Freely programmable

– elero standard RevoLine motor head
– Small side gap
– Suitable for all elero RevoLine wall brackets

Antenna

55

plug-in
connection cable

E=14

C

D

Ø 45

33

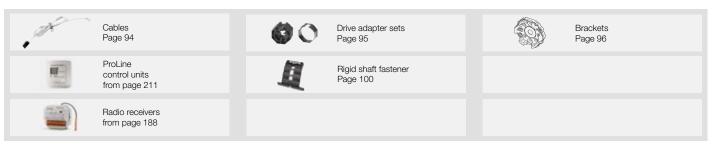## Technical data and dimensions

Type	RolTop/J M10-868	RolTop/J M20-868	RolTop/J M30-868	RolTop/J M40-868	RolTop/J M50-868
Max. torque (Nm)	10	20	30	40	50
Speed (rpm)			14		
Operating Voltage (V)	230 – 240 V ~		1 ~ 230		
Frequency (Hz)			50		
Noiseless soft brake		•		–	
Current (A)	0,6	0,9		1,2	1,3
Power (W)	140	200		270	300
Shaft Ø (mm)			50		
Ingress protection (IP)			44		
Max. limit switch range in Revolutions of the shaft			40		
Operating mode (KB in min.)	5	4		5	4
Length C (mm)	466	526	516	546	
Length D (mm)	449.5	509.5	499.5	529.5	
Length E (mm)			= 14		
Weight (kg)	1.8	1.9	2.2	2.6	3.1
Temperature range (°C)			−20 to +60		
Conformity			CE ⌂		
Connecting cable pluggable (m)			2.0		

	RolTop/J M10-868	RolTop/J M20-868	RolTop/J M30-868	RolTop/J M40-868	RolTop/J M50-868
Item Number	34 224.0006	34 234.0006	34 244.0006	34 254.0006	34 264.0006

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 94	Drive adapter sets Page 95	Brackets Page 96
Radio control units from page 167	Radio sensors from page 200	Rigid shaft fastener Page 100

Side tabs:
RevoLine M
Type 9 + 11
Venetian blind drives
Speciality drives
Hausautomation, radio controls, radio sensors
Hardwired controls sensors
Door drives
Door controls
Adapter profiles
Lifting capacity tables

RolTop/J M

Tubular drives for special roller shutters with louvre function

RolTop/J M

Application:	**Roller shutter with louvre function**
Limit switch:	Electronic limits with Soft Stop on end position approach
Highlights:	Smart force measurement
	Application protection in up and down direction
	and reversion on obstacle
	Limits can be adjusted via installation lead
	Plug-able cable
	Parallel connection possible
Shaft size:	From Ø = 50 mm
Features:	Noiseless soft brake up to 20 Nm
	Drive suitable for tilt-able roller shutters
	Includes special 2nd lower end position for opening shutter
	to tilt position
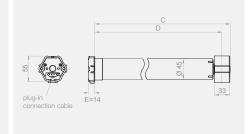
Possible limit switch modes

Upper limit switch	Lower limit switch
On limit stop	Freely programmable
Freely programmable	On limit stop
On limit stop	On limit stop
Freely programmable	Freely programmable

– eLero standard RevoLine motor head
– Small side gap
– Suitable for all elero RevoLine wall brackets
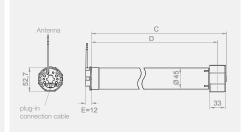
Technical data and dimensions

Type	RolTop/J M10	RolTop/J M20	RolTop/J M30	RolTop/J M40	RolTop/J M50
Max. torque (Nm)	**10**	**20**	**30**	**40**	**50**
Speed (rpm)			**14**		
Operating Voltage (V)	230 – 240 V ~		1 ~ 230		
Frequency (Hz)			50		
Noiseless soft brake		•		–	
Current (A)	0.6	0.9		1.2	1.3
Power (W)	140	200		270	300
Shaft Ø (mm)			50		
Ingress protection (IP)			44		
Max. limit switch range in Revolutions of the shaft			40		
Operating mode (KB in min.)	5	4		5	4
Length C (mm)	466	526	516	546	
Length D (mm)	449.5	509.5	499.5	529.5	
Length E (mm)			= 14		
Weight (kg)	1.8	2.1	2.3	2.5	3.1
Temperature range (°C)			−20 to +60		
Conformity			CE		
Connecting cable pluggable (m)			2.0		

	RolTop/J M10	RolTop/J M20	RolTop/J M30	RolTop/J M40	RolTop/J M50
Item Number	34 223.0001	34 233.0001	34 243.0001	34 253.0001	34 263.0001

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 94	Drive adapter sets Page 95	Brackets Page 96
ProLine control units from page 211	Rigid shaft fastener Page 100	
Radio receivers from page 188		

SunTop M-868

Radio tubular drives for sun protection systems

SunTop M-868

Application:	Textile sun protection
Limit switch:	Electronic limits with Soft Stop on end position approach
Highlights:	Smart force measurement
	Blockage detection Up/Down
	Limits can be adjusted via radio remote control or installation lead
	Plug-able cable
Shaft size:	From Ø = 50 mm
Features:	Noiseless soft brake up to 20 Nm
Radio system:	Bi-directional 868 MHz radio including routing

Possible limit switch modes
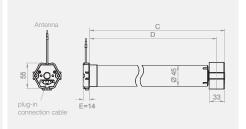
Upper limit switch	Lower limit switch
On limit stop	Freely programmable
Freely programmable	On limit stop
On limit stop	On limit stop
Freely programmable	Freely programmable

SunTop M-868

– elero standard RevoLine motor head
– Small side gap
– Suitable for all elero RevoLine wall brackets

SunTop M-868 RH
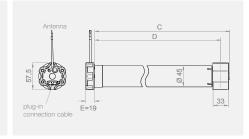
– elero round head
– Can be over wound
– Minimal side gap
– Very versatile

SunTop M-868 SH

– Somfy star head design
– Same side gap like Somfy

Technical data and dimensions

Type	SunTop M7/23-868	SunTop M10-868	SunTop M12/23-868	SunTop M20-868	SunTop M30-868	SunTop M40-868	SunTop M50-868
Max. torque (Nm)	7	10	12	20	30	40	50
Speed (rpm)	23	14	23	14			
Operating Voltage (V)	230 – 240 V ~			1 ~ 230			
Frequency (Hz)	50						
Noiseless soft brake			•			–	
Fast-running version	•	–	•	–			
Current (A)	0.6		0.9			1.2	1.3
Power (W)	140		200			270	300
Shaft Ø (mm)	50						
Ingress protection (IP)	44						
Max. limit switch range in Revolutions of the shaft	40						
Operating mode (KB in min.)	5			4		5	4
Length C (mm)	466		526		516	546	
Length D (mm)	449.5		509.5		499.5	529.5	
Length E (mm)			⬡ = 14 ● = 12 ⬡ = 19				
Weight (kg)	1.7		2.1	2.2	2.3	2.5	3.1
Temperature range (°C)	–20 to +60						
Conformity	CE 🏠 🔒						
Connecting cable pluggable (m)	2.0						

	SunTop M7/23-868	SunTop M10-868	SunTop M12/23-868	SunTop M20-868	SunTop M30-868	SunTop M40-868	SunTop M50-868
Item Number	34 726.0006	34 722.0006	34 736.0006	34 732.0006	34 742.0006	34 752.0006	34 762.0006

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

		SunTop M10-868 RH		SunTop M20-868 RH	SunTop M30-868 RH	SunTop M40-868 RH	SunTop M50-868 RH
Item Number		38 722.0006		38 732.0006	38 742.0006	38 752.0006	38 762.0006

Mounting explanation on page 96!
All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

		SunTop M10-868 SH		SunTop M20-868 SH	SunTop M30-868 SH	SunTop M40-868 SH	SunTop M50-868 SH
Item Number		39 722.0006		39 732.0006	39 742.0006	39 752.0006	39 762.0006

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 94	Drive adapter sets Page 95	Brackets Pages 96 and 98
Radio control units from page 167	Radio sensors from page 200	Bolt for RH drives Page 98

RevoLine M

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

SunTop M

Tubular drives for sun protection systems

SunTop M

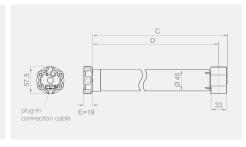| Application:	**Textile sun protection**
Limit switch:	Electronic limits with Soft Stop on end position approach
Highlights:	Smart force measurement
	Blockage detection Up/Down
	Limits can be adjusted via installation lead
	Plug-able cable
	Parallel connection possible
Shaft size:	From Ø = 50 mm
Features:	Noiseless soft brake up to 20 Nm

Possible limit switch modes

Upper limit switch	Lower limit switch
On limit stop	Freely programmable
Freely programmable	On limit stop
On limit stop	On limit stop
Freely programmable	Freely programmable

SunTop M

– elero standard RevoLine motor head
– Small side gap
– Suitable for all elero RevoLine wall brackets

SunTop M RH

– elero round head
– Can be over wound
– Minimal side gap
– Very versatile

SunTop M SH

– Somfy star head design
– Same side gap like Somfy

Technical data and dimensions

Type	SunTop M7/23	SunTop M10	SunTop M12/23	SunTop M20	SunTop M30	SunTop M40	SunTop M50
Max. torque (Nm)	7	10	12	20	30	40	50
Speed (rpm)	23	14	23	14			
Operating Voltage (V)	230 – 240 V ~		1 ~ 230				
Frequency (Hz)	50						
Noiseless soft brake			•			–	
Fast-running version	•	–	•	–			
Current (A)	0.6			0.9		1.2	1.3
Power (W)	140			200		270	300
Shaft Ø (mm)	50						
Ingress protection (IP)	44						
Max. limit switch range in Revolutions of the shaft	40						
Operating mode (KB in min.)	5			4		5	4
Length C (mm)	466		526		516	546	
Length D (mm)	449.5		509.5		499.5	529.5	
Length E (mm)			= 14	= 12	= 19		
Weight (kg)	1.7	2.2	2.1	2.2		2.5	2.7
Temperature range (°C)	–20 to +60						
Conformity	CE						
Connecting cable pluggable (m)	2.0						

	SunTop M7/23	SunTop M10	SunTop M12/23	SunTop M20	SunTop M30	SunTop M40	SunTop M50
Item Number	34 725.0001	34 721.0001	34 735.0001	34 731.0001	34 741.0001	34 751.0001	34 761.0001

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

	SunTop M7/23 RH	SunTop M10 RH		SunTop M20 RH	SunTop M30 RH	SunTop M40 RH	SunTop M50 RH
Item Number	38 725.0001	38 721.0001		38 731.0001	38 741.0001	38 751.0001	38 761.0001

Mounting explanation on page 96!   *All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.*

		SunTop M10 SH		SunTop M20 SH	SunTop M30 SH	SunTop M40 SH	SunTop M50 SH
Item Number		39 721.0001		39 731.0001	39 741.0001	39 751.0001	39 761.0001

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 94	Drive adapter sets Page 95	Brackets Pages 96 and 98
ProLine control units from page 211	Sensors from page 235	Bolt for RH drives Page 98
Radio receivers from page 188		

RevoLine M

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

SunTop/Z M-868 RH

Radio tubular drives for textile sun protection

SunTop/Z M-868 RH

Application:	Textile sun protection
Limit switch:	Electronic limits with Soft Stop on end position approach
Highlights:	Smart force measurement
	Stand still detection in up direction
	Obstacle detection and fabric protection in down direction
	Will re-try once and move in top position
	if obstacle remains on second try
	Optional torque release programmable on torque limit position(s)
	Limits can be adjusted via installation lead
Shaft size:	From Ø = 50 mm
Features:	Noiseless soft brake up to 20 Nm

Possible limit switch modes

Upper limit switch	Lower limit switch
On limit stop	Freely programmable
Freely programmable	On limit stop
On limit stop	On limit stop
Freely programmable	Freely programmable

– elero round head
– Can be over wound
– Minimal side gap
– Very versatile

Technical data and dimensions

Type	SunTop/Z M2.5/90-868 RH	SunTop/Z M4/60-868 RH	SunTop/Z M7/23-868 RH	SunTop/Z M10-868 RH	SunTop/Z M12/23-868 RH	SunTop/Z M20-868 RH	SunTop/Z M30-868 RH
Max. torque (Nm)	2.5	4	7	10	12	20	30
Speed (rpm)	90	60	23	14	23	14	
Operating Voltage (V)	1 ~ 230		230 – 240 V~		1 ~ 230		
Frequency (Hz)	50						
Noiseless soft brake			•				–
Fast-running version		•		–	•	–	
Current (A)	0.9		0.6		0.9		
Power (W)	200		140		200		
Shaft Ø (mm)	50						
Ingress protection (IP)	44						
Max. limit switch range in Revolutions of the shaft	40						
Operating mode (KB in min.)	5				4		
Length C (mm)	527	526	466		516	527	516
Length D (mm)	510.5	509.5	449.5		499.5	510.5	499.5
Length E (mm)	● = 12						
Weight (kg)	1.8	2	1.8		2.2		
Temperature range (°C)	−20 to +60						
Conformity	CE ⌂ 🏠						
Connecting cable pluggable (m)	2.0						

	SunTop/Z M2.5/90-868 RH	SunTop/Z M4/60-868 RH	SunTop/Z M7/23-868 RH	SunTop/Z M10-868 RH	SunTop/Z M12/23-868 RH	SunTop/Z M20-868 RH	SunTop/Z M30-868 RH
Item Number	38 660.0006	38 670.0006	38 624.0006	38 632.0006	38 634.0006	38 642.0006	38 652.0006

Mounting explanation on page 96! *All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.*

Accessories

Cables Page 94	Drive adapter sets Page 95	Brackets Pages 97
Radio control units from page 167	Radio sensors from page 200	Bolt for RH drives Page 97

Side tabs:
RevoLine M
Type 9 + 11
Venetian blind drives
Speciality drives
Hausautomation, radio controls, radio sensors
Hardwired controls sensors
Door drives
Door controls
Adapter profiles Lifting capacity tables

SunTop/Z M RH

Tubular drives for textile sun protection

SunTop/Z M RH

Application:	Textile sun protection
Limit switch:	Electronic limits with Soft Stop on end position approach
Highlights:	Smart force measurement
	Stand still detection in up direction
	Obstacle detection and fabric protection in down direction
	Will re-try once and move in top position
	if obstacle remains on second try
	Optional torque release programmable on torque limit position(s)
	Limits can be adjusted via installation lead
	Parallel connection possible
Shaft size:	From Ø = 50 mm
Features:	Noiseless soft brake up to 20 Nm

Possible limit switch modes

Upper limit switch	Lower limit switch
On limit stop	Freely programmable
Freely programmable	On limit stop
On limit stop	On limit stop
Freely programmable	Freely programmable

– elero round head
– Can be over wound
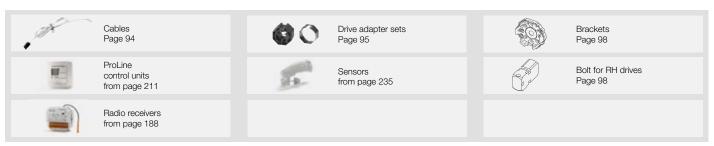– Minimal side gap
– Very versatile

plug-in connection cable

52,7

E=12

C

D

Ø 45

33

Technical data and dimensions

Type	SunTop/Z M2.5/90 RH	SunTop/Z M4/60 RH	SunTop/Z M7/23 RH	SunTop/Z M10 RH	SunTop/Z M12/23 RH	SunTop/Z M20 RH	SunTop/Z M30 RH
Max. torque (Nm)	2.5	4	7	10	12	20	30
Speed (rpm)	90	60	23	14	23	14	
Operating Voltage (V)	1 ~ 230		230 – 240 V ~		1 ~ 230		
Frequency (Hz)	50						
Noiseless soft brake			•				–
Fast-running version		•		–	•		–
Current (A)	0.9		0.6		0.9		
Power (W)	200		140		200		
Shaft Ø (mm)	50						
Ingress protection (IP)	44						
Max. limit switch range in Revolutions of the shaft	40						
Operating mode (KB in min.)	5				4		
Length C (mm)	527	526	466		516	527	516
Length D (mm)	510.5	509.5	449.5		499.5	510.5	499.5
Length E (mm)	⬤ = 12						
Weight (kg)	1.9				2.2		
Temperature range (°C)	−20 to +60						
Conformity	CE ⌂ 🔒						
Connecting cable pluggable (m)	2.0						

	SunTop/Z M2.5/90 RH	SunTop/Z M4/60 RH	SunTop/Z M7/23 RH	SunTop/Z M10 RH	SunTop/Z M12/23 RH	SunTop/Z M20 RH	SunTop/Z M30 RH
Item Number	38 669.0001	38 679.0001	38 623.0001	38 631.0001	38 633.0001	38 641.0001	38 651.0001

Mounting explanation on page 96!

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 94	Drive adapter sets Page 95	Brackets Page 98
ProLine control units from page 211	Sensors from page 235	Bolt for RH drives Page 98
Radio receivers from page 188		

VariEco M-868 / VariEco+ M-868
Radio tubular drives for roller shutters and sun protection systems

VariEco M-868 / VariEco+ M-868

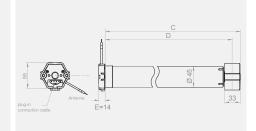| Application:	Roller shutter and textile sun protection
Limit switch:	Mechanical limit switches
	VariEco+ with quick set limit adjustments
Shaft size:	From Ø = 50 mm
Features:	Noiseless soft brake up to 20 Nm
Radio system:	Bi-directional 868 MHz radio including routing

Possible limit switch modes

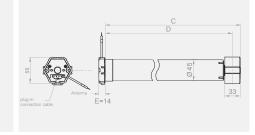| Upper limit switch	Lower limit switch
Freely programmable	Freely programmable

VariEco M-868

– elero Standard RevoLine motor head
– Small side gap
– Suitable for all elero RevoLine wall brackets

VariEco+ M-868

– Quick set limit adjustments
– elero standard RevoLine motor head
– Small side gap
– Suitable for all elero RevoLine wall brackets

Technical data and dimensions

Type	VariEco M6/35-868	VariEco M7/23-868	VariEco M9/35-868	VariEco M10-868	VariEco M12/23-868	VariEco M20-868	VariEco M30-868	VariEco M40-868	VariEco M50-868
Max. torque (Nm)	6	7	9	10	12	20	30	40	50
Speed (rpm)	35	23	35	14	23	14			
Operating Voltage (V)	1 ~ 230	230 – 240 V ~	1 ~ 230	230 – 240 V ~	1 ~ 230				
Frequency (Hz)	50								
Noiseless soft brake	•		–		•		–		
Fast-running version		•		–	•	–			
Current (A)	0.9	0.6	0.9	0.6	0.9			1.2	1.3
Power (W)	200	140	200	140	200			270	300
Shaft Ø (mm)	50								
Ingress protection (IP)	44								
Max. limit switch range in Revolutions of the shaft	35								
Operating mode (KB in min.)		5		4	5	4		5	4
Length C (mm)	537	477	527	477	537		527	557	
Length D (mm)	520.5	460.5	510.5	460.5	520.5		510.5	540.5	
Length E (mm)	= 14								
Weight (kg)	1.9						2.4		
Temperature range (°C)	−20 to +60								
Conformity	CE								
Connecting cable pluggable (m)	2.0								

	VariEco M6/35-868	VariEco M7/23-868	VariEco M9/35-868	VariEco M10-868	v VariEco M12/23-868	VariEco M20-868	VariEco M30-868	VariEco M40-868	VariEco M50-868
Item Number	34 938.0106	34 926.0106	34 948.0106	34 922.0106	34 936.0106	34 932.0106	34 942.0106	34 952.0106	34 962.0106

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

	VariEco+ M6/35-868	VariEco+ M7/23-868	VariEco+ M9/35-868		VariEco+ M12/23-868				
Item Number	34 938.0006	34 926.0006	34 948.0006		34 936.0006				

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 94	Drive adapter sets Page 95	Brackets Page 96	
Radio control units from page 167	Radio sensors from page 200	Rigid shaft fastener Page 100	
Adjustment aid Page 94			

RevoLine M

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

VariEco M / VariEco+ M

Tubular drives for roller shutters and sun protection systems

VariEco M / VariEco+ M

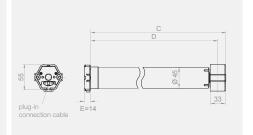| Application:	Roller shutter and textile sun protection
Limit switch:	Mechanical limit switches
	VariEco+ with quick set limit adjustments
Shaft size:	From Ø = 50 mm
Features:	Noiseless soft brake up to 20 Nm

Possible limit switch modes

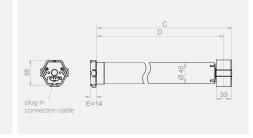| Upper limit switch	Lower limit switch
Freely programmable	Freely programmable

VariEco M

– elero Standard RevoLine motor head
– Small side gap
– Suitable for all elero RevoLine wall brackets

VariEco+ M

– Quick set limit adjustments
– elero standard RevoLine motor head
– Small side gap
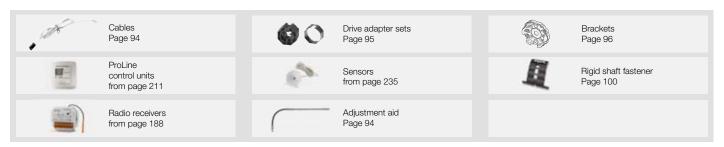– Suitable for all elero RevoLine wall brackets

Technical data and dimensions

Type	VariEco M6/35	VariEco M7/23	VariEco M9/35	VariEco M10	VariEco M12/23	VariEco M20	VariEco M30/10	VariEco M30	VariEco M40	VariEco M50
Max. torque (Nm)	6	7	9	10	12	20	30		40	50
Speed (rpm)	35	23	35	14	23	14	10	14		
Operating Voltage (V)	1 ~ 230	230–240 V~	1 ~ 230	230–240 V~	1 ~ 230					
Frequency (Hz)	50									
Noiseless soft brake	•	–		•			–			
Fast-running version		•		–	•		–			
Current (A)	0.9	0.6	0.9	0.6	0.9				1.2	1.3
Power (W)	200	140	200	140	200				270	300
Shaft Ø (mm)	50									
Ingress protection (IP)	44									
Max. limit switch range in Revolutions of the shaft	35									
Operating mode (KB in min.)	5					4	5		4	
Length C (mm)	537	477	527	477	537		527		557	
Length D (mm)	520.5	460.5	510.5	460.5	520.5		510.5		540.5	
Length E (mm)	= 14									
Weight (kg)	1.9						2.3		2.6	
Temperature range (°C)	–20 to +60									
Conformity	CE ⌂ ⌂									
Connecting cable pluggable (m)	2.0									

	VariEco M6/35	VariEco M7/23		VariEco M10	VariEco M12/23	VariEco M20	VariEco M30/10	VariEco M30	VariEco M40	VariEco M50
Item Number	34 937.0101	34 925.0101		34 921.0101	34 935.0101	34 931.0101	34 943.0101	34 941.0101	34 951.0101	34 961.0101

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

	VariEco+ M6/35	VariEco+ M7/23	VariEco+ M9/35	VariEco+ M10	VariEco+ M12/23	VariEco+ M20	VariEco+ M30/10	VariEco+ M30	VariEco+ M40	VariEco+ M50
Item Number	34 937.0001	34 925.0001	34 947.0001	34 921.0001	34 935.0001	34 931.0001	34 943.0001	34 941.0001	34 951.0001	34 961.0001

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 94	Drive adapter sets Page 95	Brackets Page 96
ProLine control units from page 211	Sensors from page 235	Rigid shaft fastener Page 100
Radio receivers from page 188	Adjustment aid Page 94	

Vertical tab labels (right margin):
RevoLine M · Type 9 + 11 · Venetian blind drives · Speciality drives · Hausautomation, radio controls, radio sensors · Hardwired controls sensors · Door drives · Door controls · Adapter profiles Lifting capacity tables

Cables and accessories

It is not possible to return connecting cables.

Special cable lengths in combination with the drive (standard 2.0 m), **white**

Item Number	Type/Item Description
99 000.4101	2.0 m plug-in connecting cable (comes with drive as standard)
99 000.4201	3.0 m plug-in connecting cable
99 000.4301	5.0 m plug-in connecting cable
99 000.4401	10.0 m plug-in connecting cable
99 000.4801	20.0 m plug-in connecting cable
99 000.4501	0.4 m plug-in connecting cable with Hirschmann plug
99 000.7001	2.0 m plug-in connecting cable with Hirschmann plug
99 000.4601	3.0 m plug-in connecting cable universal push button (middle) and earthed plug

Special cable lengths in combination with the drive (standard 2.0 m), **black**

Item Number	Type/Item Description
99 000.5101	2.0 m plug-in connecting cable
99 000.5201	3.0 m plug-in connecting cable
99 000.5301	5.0 m plug-in connecting cable
99 000.5401	10.0 m plug-in connecting cable
99 000.5501	0.4 m plug-in connecting cable with Hirschmann plug
99 000.7701	2.0 m plug-in connecting cable with Hirschmann plug

Connecting cables without drive, **white**

23 395.0201	2.0 m plug-in connecting cable
23 395.0301	3.0 m plug-in connecting cable
23 395.0401	5.0 m plug-in connecting cable
23 395.0501	10.0 m plug-in connecting cable
23 395.0601	20.0 m plug-in connecting cable
23 395.0101	0.4 m plug-in connecting cable with Hirschmann plug
23 395.0801	2.0 m plug-in connecting cable with Hirschmann plug
23 395.0701	3.0 m plug-in connecting cable with universal push button (centred) and earthed plug
23 615.2401	0.2 m Adapter cable Type 9/RevoLine

Connecting cables without drive, **black**

23 395.2201	2.0 m plug-in connecting cable
23 395.2301	3.0 m plug-in connecting cable
23 395.2401	5.0 m plug-in connecting cable
23 395.2501	10.0 m plug-in connecting cable
23 395.2101	0.4 m RevoLine cable with Hirschmann plug
23 395.2901	2.0 m RevoLine cable with Hirschmann plug

Installation-, connecting cables and Accessories

23 243.0002	Installation cable
23 246.0001	Installation cable with Hirschmann plug Stak 3
13 709.7301	5 pole connecting clip for installation cable 23 243.0002
23 395.2701	QuickConnect, the fast connection system, IP 65
23 395.4701	QuickConnect, set of 10
23 395.2601	QuickConnect with MiniPlug, IP 65 cable length 0.25 m
23 846.0001	Stas 3 with clip (motor side)
13 701.5301	Stak 3 (power supply side)
13 308.0001	Flexible adjustment aid

23 243.0002

23 246.0001

13 308.0001

23 395.2601

23 395.2701

Assembly and disassembly only in the de-energised state!
The connections to the 230V mains must be made by authorised specialist personnel.

Adapter sets

Profiles of the drive adapter sets in 1:1 scale on page 274.

23 028.0001

Item Number	Type/Item Description	Notch tubes	Round tubes	Profile tubes
23 041.0001	Ø 57 mm, Ates, MHZ	•		
23 055.0001	Ø 60 mm, AXE, Griesser, Hüppe	•		
23 042.0001	Ø 62 x 0.6 mm, DEPRAT F2000	•		
23 031.0001	Ø 63 x 1.0 mm	•		
22 019.0001	Ø 63 mm, deep notch	•		
23 018.0001	Ø 70 mm, IMBAC, Ahlquist, round notch	•		
23 020.0001	Ø 70 mm, flat notch, Welser, Griesser	•		
23 065.0001	Ø 70 mm	•		
23 054.0001	Ø 71 x 1.5 mm, Hassinger	•		
23 015.0001	Ø 78 x 1.0 mm 78 x 1.25 mm, for flat- and round notch, MHZ	•		
22 129.0001	Ø 78 x 1.0 mm, flat- and round notch Welser for ZIP installations	•		
23 026.0001	Ø 78 x 1.0 mm Rau	•		
22 088.0001	Ø 80 x 1.0 mm and Ø 80 x 1.25 mm, Welser	•		
23 017.0001	Ø 85 x 1.0 mm	•		
23 048.0001	Ø 85 x 1.2 mm, Imbac-NEW, Griesser	•		
23 053.0001	Ø 90 mm, Le Profil, Ø 89 mm DEPRAT	•		
23 058.0001	Ø 90.5 x 1.25 mm, MHZ	•		
13 116.2901	Ø 50 x 1.5 mm		•	
13 116.9901	Ø 50 x 1.5 mm, Siral		•	
23 044.0001	Ø 60 x 1.5 mm and Ø 62 x 2.0 mm		•	
23 045.0001	Ø 63 x 1.5 mm		•	
23 046.0001	Ø 70 x 1.5 mm		•	
23 093.0001	Ø 83 x 1.5 mm (with profile)		•	
23 052.0001	Ø 98 x 2.0 mm and Ø 102 x 3.5 mm		•	
23 051.0001	Ø 102 x 1.5 mm and Ø 102 x 2.0 mm		•	
13 117.8501	Ø 50 mm, Soprofen			•
13 121.9301	Ø 50 mm, with ribs			•
23 012.0001	Octagonal, SW 50 Selve			•
23 091.0001	Ø 53 mm, Deprat			•
13 116.1001	Ø 54 mm, Zurflüh-Feller			•
23 039.0001	Ø 55 mm, elero			•
23 050.0001	Ø 58 mm Alu, Termo Perco			•
23 036.0001	Octagonal, SW 60, IMBAC			•
23 379.0001	Octagonal, SW 60, Selve, Döhner Eckermann			•
23 056.0001	Octagonal, 60 mm, Bonfante			•
23 047.0001	Hexagonal, Ø 60 x 0.7 mm, Butzbach, Mäule			•
23 049.0001	Ø 60 mm Alu-Plast, Kittelberger, Ø 63 x 1.5 mm			•
23 043.0001	Ø 62 mm, Le-Profil, Krülland			•
23 380.0001	Ø 64 mm, Zurflüh-Feller			•
23 032.0001	Ø 65 mm, IMBAC, Eckermann, Metallpress			•
23 033.0001	Ø 65 mm, Hoos			•
23 057.0001	Ø 67 x 1.5 mm, MHZ			•
23 011.0001	70 mm octagonal, Selve, Döhner, Eckermann			•
23 059.0001	75 mm hexagonal, Butzbach, Mäule			•
23 034.0001	Ø 76 x 1.2 mm, Kittelberger, Wiral			•
23 090.0001	78 mm pentagonal, Meimo			•
23 040.0001	78x1 / 78x1.25 mm profile tube Döhner, Has. 58			•
23 382.0001	Ø 80 mm, Zurflüh-Feller			•
23 028.0001	Adapter for Somfy adapter set			

RevoLine M

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles
Lifting capacity tables

Motor bearings

23 004.0001
Universal wall bracket
(plastic) max. 50 Nm

23 615.4401
Disengageable
max. 30 Nm

Ø30
Ø48
Ø60.5
Ø43.5
Ø48
74
69

23 003.0001
48/60 mm centres (Alloy)

Ø30
Ø48
Ø60.5
Ø43.5
Ø48
74
69

23 003.0201
Motor bearing 48/60 mm
centres (Alloy) with nuts
4 x M6 and 12.5 mm hole
in plastic center ring

Ø30
Ø48
Ø60.5
Ø43.5
Ø48
74
69

23 003.0301
Motor bearing with
48/60 mm centres
(Alloy) with M6/M8
thread

SKS

23 004.0101
max. 50 Nm

Base plate

TK90

23 615.9901
With motor bearing
(e.g. for VEKA Variant
elements)

**Mounting plate with
motor bearing**

TK101
TK88

23 615.7101
Plastic max. 30 Nm
(Thyssen, Schüco, Veka, Home)

23 615.9101
60 mm offset for replacing
manual roller shutter belt
max. 50 Nm

Clamp bearing

23 615.7201
For roller bearing bracket
max. 30 Nm

screwless left

23 615.8201
For built-on roller shutters,
size 137 mm
d = 64 – 65.5 mm,
up to max. 30 Nm

screwless right

23 615.9201
For built-on roller shutters,
size 137 mm
d = 64 – 65.5 mm,
up to max. 30 Nm

screwless left

23 615.8301
For built-on roller shutters,
size 150 mm
d = 70.7 mm,
up to max. 30 Nm

screwless right

23 615.9301
For built-on roller shutters,
size 150 mm
d = 70.7 mm,
up to max. 30 Nm

screwless left

23 615.8401
For built-on roller shutters,
size 165 mm
d = 78.2 – 79.7 mm,
up to max. 30 Nm

screwless right

23 615.9401
For built-on roller shutters,
size 165 mm
d = 78.2 – 79.7 mm,
up to max. 30 Nm

screwless left

23 003.1501
For Heroal elements
FMR/FME/FMB
size 125 – 205 mm

screwless right

23 003.1401
For Heroal elements
FMR/FME/FMB
size 125 – 205 mm

**screwless
left + right**

23 003.1601
For Heroal elements
FMR/FME/FMB
size 125 – 205 mm
up to max. 30 Nm

Mounting- and adapter plates for elero head

Adapter plates

23 374.1501
Motor head add-on with motor bolt 10 x 16 mm, pin 17 mm long (max. 50 Nm)

23 374.1401
10 x 16, short pin 10.5 mm (up to 50 Nm)

23 374.2501
Motor head add-on with motor bolt 16 x 16 mm, pin 22 mm

23 374.6801
For Type 9 (up to 50 Nm)

23 374.3301
Motor head add-on with motor bolt 12 x 12 mm, height: 12.0 mm

23 374.2101
Motor head add-on with motor bolt 16 x 16 mm, pin 12 mm

23 374.1601
Motor head add-on with motor bolt 10 x 10 mm, pin 9.5 mm (max. 30 Nm)

23 374.9401
SH Adapter (max. 50 Nm)

23 374.9801
Adapter plate with bolt Ø 19,5 mm

23 374.7301
Adapter plate with slot 3 x 15 mm

RevoLine M

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

Motor bearings combined with bolt 23 374.7901 (RH drives) or elero head combined with adapter plate 23 374.1401

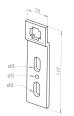**23 986.0001**
Wall bracket,
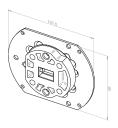limbus 48 mm

13 300.0801
Wall bracket,
limbus Ø 48 mm
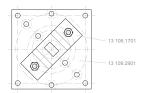
13 106.1701
Wall bracket, limbus
Ø 60 mm M8 thread
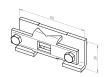
13 301.7001
Flat wall bracket,
limbus Ø 48 mm

13 301.4601
Wall bracket cross,
closed

23 276.0001
Mounting plate for motor bearing
(Thyssen, Schüco, Veka, Home)

23 832.0001
Base plate with
motor bearing

23 965.0003
For roller bearing bracket
or for plaster-in brackets

23 985.0001
Metal wall bracket
with rubber damper

13 109.1701
Motor side bearing
bracket up to 20 Nm

13 109.1801
Bearing bracket opposite side Ø
10 mm to 20 Nm

13 108.0201
Adapter suitable for
13 109.1701

Bolt for RH drive head

Bolt

23 374.7901
10 x 16 RH
incl. grub screw

23 375.0601
10 x 10 mm RH
incl. grub screw
max. 30 Nm

Direct mounting RH head

	up to max. 20 Nm	up to max. 50 Nm
Screws	2*	4**
Max. mounting torque (Nm)	2.0	5.5
Screw holes for mounting (orange)		

* Countersunk bolts 3.5x12 Remform F Torx15 (Item no. 10101.0947)
** PT screws K 5.0 x 16 Torx 20 (Item no. 10101.3623)

Motor bearings for SH drives

23 003.1701
With safety clip
(small pullring), TK 48

23 003.1801
Without safety clip

13 123.4501
Safety clip with
large pullring

Mounting plates and mounting assessories

Plaster-in bracket

13 300.9202
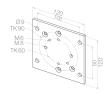max. 80 Nm

Mounting plates

24 554.0001
For wall bracket
(23 004.0001 and
23 615.4401)

13 302.2601
For Motor bearing
(Stakusit)

13 302.7801
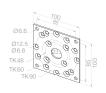48/60/78 mm centres
for Weru

23 457.0001
Mounting plate
for cover cap

Universal adapter plate sets

23 687.0501
With 2 countersunk
screws M6 x 16 and nuts

13 109.2902
48/60/85/90 mm
centres

Angle brackets

13 110.5001
80 mm high

13 110.5101
130 mm high

13 110.5201
180 mm high

Roller bearing holder brackets

23 852.0001
90 mm wide

Spring clip

13 301.8501
For 50 mm octagonal tube
to support roller shutter
fixing spring

RevoLine M

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles

Lifting capacity tables

Rigid shaft fastener MiniClick and MaxiClick

Universal for octagonal tubes, 40, 50, 60 and 70 mm

MiniClick, with twist lock

For mini profiles and octagonal shafts size SW 40, 50
(0.6 and 0.8 mm) and SW 60 (0.6 and 0.9 mm)

Item Number	Type/Item Description
13 309.0001	MiniClick, 1 section
13 309.0101	MiniClick, 2 sections
13 309.0201	MiniClick, 3 sections
13 309.0301	MiniClick, 4 sections
13 309.0401	MiniClick profile insert
13 309.0501	MiniClick profile spacer insert

MaxiClick, with twist lock

For standard profiles and octagonal shaft size SW 60
(0.9 mm) and SW 70 (1.0 / 1.2 and 1.5 mm)

Item Number	Type/Item Description
13 309.1001	MaxiClick, 1 section
13 309.1101	MaxiClick, 2 sections
13 309.1201	MaxiClick, 3 sections
13 309.1401	MaxiClick profile insert
13 309.1501	MaxiClick profile spacer insert

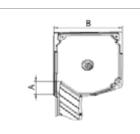**MiniClick selection table**

Shaft fastener	By box depth B[1] (mm)	Number/ shutter	Shutter weight (kg)	Application range
1 section	115 – 150	Use minimum 1 fastener every 60 cm or 4 Nm drive torque	max. 8 / shaft fastener	Mini- / maxi profile[1]
2 sections	155 – 180			
3 sections	185 – 210			
4 sections	215 – 240			

MaxiCLick selection table

Shaft fastener	By box depth B[1] (mm)	Number/ shutter	Shutter weight (kg)	Application range
1 section	125 – 160	Use minimum 1 fastener every 60 cm or 6 Nm drive torque	max. 12 / shaft fastener	Mini- / maxi profile[1]
2 sections	160 – 200			
3 sections	200 – 250			

[1] Select MiniClick or MaxiClick by Shaft size.

The top most profile slat should not be exposed by more than 1/2 profile height above the guide rails (A).
Anti-push up will only work if the slats a compressed and can exert upwards pressure against the Anti-push up device.

Anti push-up devices

Anti push-up device mini profile

13 301.8901
2 sections

13 301.9101
3 sections

Anti push-up device standard profile

13 301.8801
2 sections

13 301.9001
3 sections

13 301.9201
4 sections

Fixing rings

13 302.1501
For 50 mm
octagonal shaft

13 301.9501
For 60 mm
octagonal shaft

Ø88

13 301.9601
For 70 mm
octagonal shaft

13 301.9701
For 65 mm rofile shaft
Hoos, IMBAC, Metalpress,
Eckermann

RevoLine M

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio
controls, radio sensors

Hardwired controls
sensors

Door drives

Door controls

Adapter profiles
Lifting capacity tables

RevoLine L
– Power packs with lots of sensitivity!

The tubular motors in the L series are available in the versions RolTop, SunTop and VariEco, and with or without an integrated radio system. Thus elero offers a wide and varied product range to cover a diversity of applications. With a diameter of 55 mm the drives are ideal for space-saving systems. Drives are available with 40 to 80 Nm and 14 rpm. All the drives may be installed and set up quickly and easily.

RolTop L-868

Radio tubular drives for roller shutters

RolTop L-868 (230 V/50 Hz)

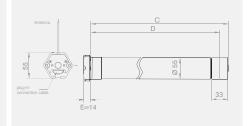|	
Application:	**Roller shutter and textile sun protection**
Limit switch:	Electronic limits with Soft Stop on end position approach
Highlights:	Smart force measurement
	Application protection in up and down direction
	and reversion on obstacle*
	Release may be activated on end position
	Limits can be adjusted via radio remote control or installation lead
	Plug-able cable
Shaft size:	From Ø = 58 mm
Radio system:	Bi-directional 868 MHz radio including routing
	depending on drive

Possible limit switch modes

Upper limit switch	Lower limit switch
On limit stop	Freely programmable
Freely programmable	On limit stop
On limit stop	On limit stop
Freely programmable	Freely programmable

– elero standard RevoLine motor head
– Small side gap
– Suitable for all elero RevoLine wall brackets

Technical data and dimensions

Type	RolTop L60-868	RolTop L80-868	RolTop L60-868 without reversion on obstacle	RolTop L80-868 without reversion on obstacle
Max. torque (Nm)	60	80	60	80
Speed (rpm)	14			
Operating Voltage (V)	1 ~ 230			
Frequency (Hz)	50			
Application protection up and down and reversion on obstacle	•		–	
Current (A)	1.65	2.2	1.65	2.2
Power (W)	380	490	380	490
Shaft Ø (mm)	63			
Ingress protection (IP)	44			
Max. limit switch range in Revolutions of the shaft	40			
Operating mode (KB in min.)	4			
Length C (mm)	575			
Length D (mm)	558.5			
Length E (mm)	● = 14			
Weight (kg)	3.3	3.6	3.3	3.6
Temperature range (°C)	−20 to +60			
Conformity	C E			
Connecting cable pluggable (m)	2.0			

	RolTop L60-868	RolTop L80-868	RolTop L60-868 without reversion on obstacle	RolTop L80-868 without reversion on obstacle
Item Number	36 732.0006	36 742.0006	36 732.0076	36 742.0076

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 116	Drive adapter sets Page 117	Brackets Page 118
Radio control units from page 167	Radio sensors from page 200	Rigid shaft fastener Page 119

RevoLine L

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

RolTop L
Tubular drives for roller shutters

RolTop L (230 V/50 Hz)

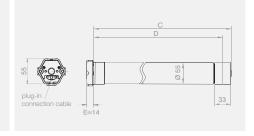|	
Application:	**Roller shutter and textile sun protection**
Limit switch:	Electronic limits with Soft Stop on end position approach
Highlights:	Smart force measurement
	Application protection in up and down direction
	and reversion on obstacle*
	Release may be activated on end position
	Limits can be adjusted installation lead
	Plug-able cable
Shaft size:	From Ø = 63 mm

* depending on drive

Possible limit switch modes

Upper limit switch	Lower limit switch
On limit stop	Freely programmable
Freely programmable	On limit stop
On limit stop	On limit stop
Freely programmable	Freely programmable

– elero standard RevoLine motor head
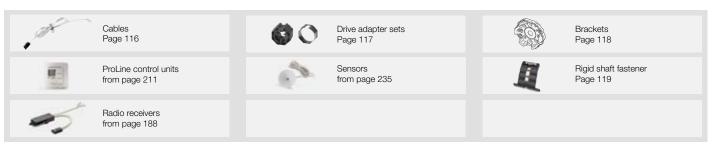– Small side gap
– Suitable for all elero RevoLine wall brackets

Technical data and dimensions

Type	RolTop L60	RolTop L80	RolTop L60 without reversion on obstacle	RolTop L80 without reversion on obstacle
Max. torque (Nm)	60	80	60	80
Speed (rpm)	14			
Operating Voltage (V)	1 ~ 230			
Frequency (Hz)	50			
Noiseless soft brake	–			
Application protection up and down and reversion on obstacle	•		–	
Current (A)	1.65	2.2	1.65	2.2
Power (W)	380	490	380	490
Shaft Ø (mm)	63			
Ingress protection (IP)	44			
Max. limit switch range in Revolutions of the shaft	40			
Operating mode (KB in min.)	4			
Length C (mm)	575			
Length D (mm)	558.5			
Length E (mm)	= 14			
Weight (kg)	3.3	3.6	3.3	3.6
Temperature range (°C)	−20 to +60			
Conformity	C E			
Connecting cable pluggable (m)	2.0			

	RolTop L60	RolTop L80	RolTop L60 without reversion on obstacle	RolTop L80 without reversion on obstacle
Item Number	36 731.0001	36 741.0001	36 731.0071	36 741.0071

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 116	Drive adapter sets Page 117	Brackets Page 118
ProLine control units from page 211	Sensors from page 235	Rigid shaft fastener Page 119
Radio receivers from page 188		

SunTop L-868

Radio tubular drives for sun protections systems

SunTop L-868 (230 V/50 Hz)

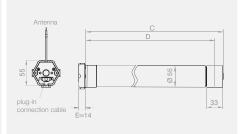|	
Application:	**Textile sun protection**
Limit switch:	Electronic limits with Soft Stop on end position approach
Highlights:	Smart force measurement
	Blockage detection Up/Down
	Release may be activated on end position
	Limits can be adjusted via radio remote control or installation lead
	Plug-able cable
Shaft size:	From Ø = 63 mm
Radio system:	Bi-directional 868 MHz radio including routing

Possible limit switch modes

Upper limit switch	Lower limit switch
On limit stop	Freely programmable
Freely programmable	On limit stop
On limit stop	On limit stop
Freely programmable	Freely programmable

– elero standard RevoLine motor head
– Small side gap
– Suitable for all elero RevoLine wall brackets

Technical data and dimensions

Type	SunTop L40-868	SunTop L60-868	SunTop L80-868
Max. torque (Nm)	40	60	80
Speed (rpm)		14	
Operating Voltage (V)		1 ~ 230	
Frequency (Hz)		50	
Noiseless soft brake		–	
Current (A)	1.2	1.65	2.2
Power (W)	280	380	490
Shaft Ø (mm)		63	
Ingress protection (IP)		44	
Max. limit switch range in Revolutions of the shaft		40	
Operating mode (KB in min.)		4	
Length C (mm)	515	575	
Length D (mm)	498.5	558.5	
Length E (mm)		⬤ = 14	
Weight (kg)	3.2	3.3	3.6
Temperature range (°C)		−20 to +60	
Conformity		CE	
Connecting cable pluggable (m)		2.0	

	SunTop L40-868	SunTop L60-868	SunTop L80-868
Item Number	36 222.0006	36 232.0006	36 242.0006

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 116	Drive adapter sets Page 117	Brackets Page 118
Radio control units from page 167	Radio sensors from page 200	

RevoLine L

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

SunTop L
Tubular drives for sun protections systems

SunTop L (230 V/50 Hz)

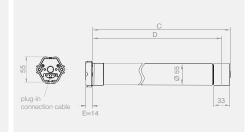| Application:	**Textile sun protection**
Limit switch:	Electronic limits with Soft Stop on end position approach
Highlights:	Smart force measurement
	Blockage detection Up/Down
	Release may be activated on end position
	Limits can be adjusted via installation lead
	Plug-able cable
Shaft size:	From Ø = 63 mm

Possible limit switch modes

Upper limit switch	Lower limit switch
On limit stop	Freely programmable
Freely programmable	On limit stop
On limit stop	On limit stop
Freely programmable	Freely programmable

– elero standard RevoLine motor head
– Small side gap
– Suitable for all elero RevoLine wall brackets

plug-in connection cable

C
D
55
Ø 55
33
E=14

Technical data and dimensions

Type	SunTop L40	SunTop L60	SunTop L80
Max. torque (Nm)	40	60	80
Speed (rpm)		14	
Operating Voltage (V)		1 ~ 230	
Frequency (Hz)		50	
Noiseless soft brake		−	
Current (A)	1.2	1.65	2.2
Power (W)	280	380	490
Shaft Ø (mm)		63	
Ingress protection (IP)		44	
Max. limit switch range in Revolutions of the shaft		40	
Operating mode (KB in min.)		4	
Length C (mm)	515	575	
Length D (mm)	498.5	558.5	
Length E (mm)		⬡ = 14	
Weight (kg)	3.0	3.3	3.6
Temperature range (°C)		−20 to +60	
Conformity		C €	
Connecting cable pluggable (m)		2.0	

	SunTop L40	SunTop L60	SunTop L80
Item Number	36 221.0001	36 231.0001	36 241.0001

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 116	Drive adapter sets Page 117	Brackets Page 118
ProLine control units from page 211	Sensors from page 235	
Radio receivers from page 188		

RevoLine L

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

VariEco L-868

Radio tubular drives for roller shutters and sun protection systems

VariEco L-868 (230 V/50 Hz)

Application:	Roller shutter and textile sun protection

Limit switch: Mechanical limit switches
Shaft size: From Ø = 63 mm
Highlights: Plug-able cable
Radio system: Bi-directional 868 MHz radio
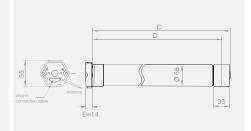   including routing

Possible limit switch modes

Upper limit switch	Lower limit switch
Freely programmable	Freely programmable

– elero standard RevoLine motor head
– Small side gap
– Suitable for all elero RevoLine wall brackets

55

plug-in
connection cable

Antenna

C
D

Ø 55

E=14

33

Technical data and dimensions

Type	VariEco L40-868	VariEco L60-868	VariEco L80-868
Max. torque (Nm)	40	60	80
Speed (rpm)		14	
Operating Voltage (V)		1 ~ 230	
Frequency (Hz)		50	
Noiseless soft brake		–	
Current (A)	1.2	1.65	2.2
Power (W)	280	380	490
Shaft Ø (mm)		63	
Ingress protection (IP)		44	
Max. limit switch range in Revolutions of the shaft		35	
Operating mode (KB in min.)		4	
Length C (mm)	527	586	
Length D (mm)	510.5	569.5	
Length E (mm)		= 14	
Weight (kg)	3.3	3.4	
Temperature range (°C)		−20 to +60	
Conformity		CE	
Connecting cable pluggable (m)		2.0	

	VariEco L40-868	VariEco L60-868	VariEco L80-868
Item Number	36 922.0106	36 932.0106	36 942.0106

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 116	Drive adapter sets Page 117	Brackets Page 118
Radio control units from page 167	Radio sensors from page 200	Adjustment aid Page 116

RevoLine L

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

VariEco L

Tubular drives for roller shutters and sun protection systems

VariEco L (230 V/50 Hz)

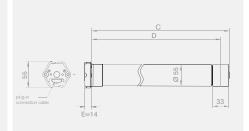|	
Application:	**Roller shutter and textile sun protection**
Limit switch:	Mechanical limit switches
Shaft size:	From Ø = 63 mm
Highlights:	Plug-able cable

Possible limit switch modes

Upper limit switch	Lower limit switch
Freely programmable	Freely programmable

– elero standard RevoLine motor head
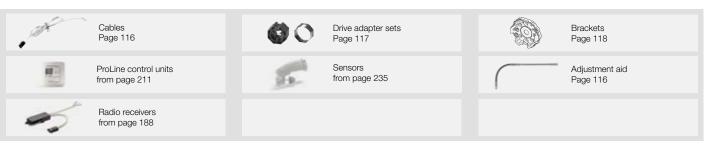– Small side gap
– Suitable for all elero RevoLine wall brackets

Technical data and dimensions

Type	VariEco L40	VariEco L60	VariEco L80
Max. torque (Nm)	40	60	80
Speed (rpm)		14	
Operating Voltage (V)		1 ~ 230	
Frequency (Hz)		50	
Noiseless soft brake		–	
Current (A)	1.2	1.65	2.2
Power (W)	280	380	490
Shaft Ø (mm)		63	
Ingress protection (IP)		44	
Max. limit switch range in Revolutions of the shaft		35	
Operating mode (KB in min.)		4	
Length C (mm)	527	586	
Length D (mm)	510.5	569.5	
Length E (mm)		= 14	
Weight (kg)	3.3	3.4	
Temperature range (°C)		−20 to +60	
Conformity		CE	
Connecting cable pluggable (m)		2.0	

	VariEco L40	VariEco L60	VariEco L80
Item Number	36 921.0101	36 931.0101	36 941.0101

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 116	Drive adapter sets Page 117	Brackets Page 118
ProLine control units from page 211	Sensors from page 235	Adjustment aid Page 116
Radio receivers from page 188		

RevoLine L

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

Cables and accessories

It is not possible to return connecting cables.

Special cable lengths in combination with the drive
(standard 2.0 m), **white**

Item Number	Type/Item Description
99 000.4101	2.0 m plug-in connecting cable (comes with drive as standard)
99 000.4201	3.0 m plug-in connecting cable
99 000.4301	5.0 m plug-in connecting cable
99 000.4401	10.0 m plug-in connecting cable
99 000.4801	20.0 m plug-in connecting cable
99 000.4501	0.4 m plug-in connecting cable with Hirschmann plug
99 000.7001	2.0 m plug-in connecting cable with Hirschmann plug
99 000.4601	3.0 m plug-in connecting cable universal push button (middle) and earthed plug

Special cable lengths in combination with the drive
(standard 2.0 m), **black**

Item Number	Type/Item Description
99 000.5101	2.0 m plug-in connecting cable
99 000.5201	3.0 m plug-in connecting cable
99 000.5301	5.0 m plug-in connecting cable
99 000.5401	10.0 m plug-in connecting cable
99 000.5501	0.4 m plug-in connecting cable with Hirschmann plug
99 000.7701	2.0 m plug-in connecting cable with Hirschmann plug

Connecting cables without drive, **white**

23 395.0201	2.0 m plug-in connecting cable
23 395.0301	3.0 m plug-in connecting cable
23 395.0401	5.0 m plug-in connecting cable
23 395.0501	10.0 m plug-in connecting cable
23 395.0601	20.0 m plug-in connecting cable
23 395.0101	0.4 m plug-in connecting cable with Hirschmann plug
23 395.0801	2.0 m plug-in connecting cable with Hirschmann plug
23 395.0701	3.0 m plug-in connecting cable with universal push button (centred) and earthed plug
23 615.2401	0.2 m Adapter cable Type 9/RevoLine

Connecting cables without drive, **black**

23 395.2201	2.0 m plug-in connecting cable
23 395.2301	3.0 m plug-in connecting cable
23 395.2401	5.0 m plug-in connecting cable
23 395.2501	10.0 m plug-in connecting cable
23 395.2101	0.4 m RevoLine cable with Hirschmann plug
23 395.2901	2.0 m RevoLine cable with Hirschmann plug

Installation-, connecting cables and accessories

23 243.0002	Installation cable
23 246.0001	Installation cable with Hirschmann plug Stak 3
13 709.7301	5 pole connecting clip for installation cable 23 243.0002
23 395.2701	QuickConnect, the fast connection system, IP 65
23 395.4701	QuickConnect, set of 10
23 395.2601	QuickConnect with MiniPlug, IP 65 cable length 0.25 m
23 846.0001	Stas 3 with clip (motor side)
13 701.5301	Stak 3 (power supply side)
13 308.0001	Flexible adjustment aid

23 243.0002

23 246.0001

13 308.0001

23 395.2701

23 395.2601

Assembly and disassembly only in the de-energised state!
The connections to the 230V mains must be made by authorised specialist personnel.

Drive adapter sets

Profile Profiles of the drive adapter sets in 1:1 scale on page 283.

Item Number	Type/Item Description	Notch tubes	Round tubes	Profile tubes
23 383.0101	Ø 78 x 1.0 mm, MHZ Ø 78 x 1.0 mm, flat notch	•		
23 070.0001	Ø 78 x 1.0 mm, round notch, Döhner Ø 78 x 1.25 mm Ø 78 x 1.25 mm, round notch, Röchling	•		
23 377.0001	Ø 95 x 1.2 mm Schmitz	•		
23 378.0001	Ø 85 x 1.0 mm	•		
23 061.0001	Ø 90 mm, Le-Profil, Ø 89 mm Deprat	•		
22 076.0001	Ø 100 x 2 mm	•		
22 092.0001	Ø 90 x 1.25 mm, MHz	•		
23 064.0001	Ø 63 x 1.5 mm		•	
23 064.0101	Ø 63 x 1.5 mm, with 4 x M6 thread		•	
23 067.0001	Ø 70 x 1.5 mm		•	
23 067.0101	Ø 70 x 1.5 mm, with 4 x M6 thread		•	
23 066.0001	Ø 70 x 2.0 mm		•	
23 066.0101	Ø 70 x 2.0 mm, with 4 x M6 thread		•	
23 073.0001	Ø 83 x 1.5 mm		•	
23 073.0101	Ø 83 x 1.5 mm with 4 x M6 thread		•	
23 063.0001	Ø 98 x 2.0 mm, Ø 100 x 3.0 mm, Ø 101.6 x 3.6 mm		•	
23 063.0101	Ø 98 x 2.0 mm, Ø 100 x 3.0 mm, Ø 101.6 x 3.6 mm with 4 x M6 thread		•	
23 062.0001	Ø 102 x 2.0 mm		•	
23 062.0101	Ø 102 x 2.0 mm, with 4 x M6 thread		•	
23 079.0001	Ø 133 x 2.5 mm / Ø 133 x 2.0 mm		•	
23 079.0101	Ø 133 x 2,5 mm / Ø 133 x 2.0 mm, with 4 x M6 thread		•	
22 066.0001	Ø 135 x 2.5 mm		•	
23 068.0001	Ø 67 x 1.5 mm, MHZ			•
23 060.0001	Octagonal, SW 70, Selve, Eckermann, Roma			•
23 060.0001	Octagonal, SW 70 x 1.25, Roma			•
23 071.0001	Hexagonal, Ø 75, Butzbach, Mäule			•
23 075.0001	Ø 76 x 1.2 mm, Kittelberger, Wiral			•
23 074.0001	80, Zurflüh-Feller			•
23 077.0001	Ø 85 x 1.2 mm, Imbac, Griesser			•
23 092.0001	Hexagonal, Ø 85 mm, Butzbach			•
23 078.0001	Octagonal, 102 x 2.0 mm, Alulux			•
23 069.0001	Octagonal, 102 x 2.5 mm, Roma			•
23 072.0001	Octagonal, 114, Heroal			•
23 076.0001	Ø 128 x 1.5 mm, Alukon			•

RevoLine L
Type 9 + 11
Venetian blind drives
Speciality drives
Hausautomation, radio controls, radio sensors
Hardwired controls sensors
Door drives
Door controls
Adapter profiles Lifting capacity tables

Motor bearings

23 003.0001
48/60 mm centres (Alloy)

23 003.0201
Motor bearing 48/60 mm
centres (Alloy) with nuts
4 x M6 and 12.5 mm hole
in plastic center ring

23 003.0301
Motor bearing with
48/60 mm centres (Alloy)
with M6/M8 thread

23 615.9901
With motor bearing
(e.g. for VEKA Variant
elements)

Adapter plates

23 374.3301
Motor head add-on with
motor bolt 12 x 12 mm,
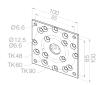height: 12.0 mm

23 374.2101
Motor head add-on with
motor bolt 16 x 16 mm,
pin 12 mm

23 374.2501
Motor head add-on with
motor bolt 16 x 16 mm,
pin 22 mm

Mounting plates and mounting assessories

**Universal adapter
plate sets**

23 687.0501
With 2 countersunk
screws M6 x 16 and nuts

13 109.2902
48/60/85/90 mm
centres
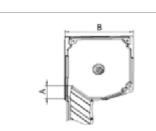
Rigid shaft fastener MaxiClick

MaxiClick, with twist lock
For mini profiles and octagonal shafts size SW 60 (0.9 mm) and SW 70 (1.0 / 1.2 and 1.5 mm)

Item Number	Type/Item Description
13 309.1001	MaxiClick, 1 section
13 309.1101	MaxiClick, 2 sections
13 309.1201	MaxiClick, 3 sections
13 309.1401	MiniClick profile insert
13 309.1501	MiniClick profile spacer insert

The top most profile slat should not be exposed by more than 1/2 profile height above the guide rails (A).
Anti-push up will only work if the slats a compressed and can exert upwards pressure against the Anti-push up device.

MaxiClick selection table

Shaft fastener	By box depth B[1] (mm)	Number/ shutter	Shutter weight (kg)	Application range
1 section	125 – 160	Use minimum 1 fastener every 60 cm or 6 Nm drive torque	max. 12 per shaft fastener	Maxi-Profil[1]
2 sections	160 – 200			
3 sections	200 – 250			

[1] Select MaxiClick by Shaft size..

Anti push-up devices

Anti push-up device standard profile

13 301.8801
2 sections

13 301.9001
3 sections

13 301.9201
4 sections

Fixing ring

13 301.9601
For 70 mm
octagonal shaft

Type 11 CSM-868 / CSM-F-868
Type 11 CSM-E
Type 11 (100 – 120 Nm)
for tubes from 63 x 1.5 mm

The Type 11 drives are available in 100 Nm and 120 Nm. The high precision mechanical limit switches are easily accessible and ensure a very high repetitive accuracy. The drive features a plug-able cable which is 2.0 m long.

The Type 11 CSM-E is an awning drive with electronic regulation and an integrated release function at the upper end point. Programming is conducted very simply using the installation cable, with visible and audible feedback from the drive. Important: CSM-E drives may not be connected in parallel with conventional limit switch drives. Please note that with this drive the smallest tube interior diameter is 60 mm.

The connection cable has a length of 2.0 m and is pluggable. Thanks to its RevoLine output the drive can also be used with the RevoLine adapters.

The radio-controlled CSM-868 drives are available in various strengths and for all customary shafts with an internal diameter of at least 60 mm.
The drives have a release function to protect the awning fabric and the mechanical parts. One major advantage is seen during installation: With radio-controlled drives there is no need to wire the operating switch.
This saves on-site time when installing the drive and ensures that no dirt or dust is produced. This is an important argument with refurbishment work above all.

The CSM-F-868 type drive unit series were developed especially for open awning systems. The drives are suited to awning systems without a mechanical stop as during installation the engineer sets both the end positions with the aid of the elero installation cable or a selectively trained ProLine-868 radio transmitter: Firstly the roller blind or awning is moved to its upper limit, and this end position is then stored by simultaneously pressing the "Up" and "Down" keys. The lower limit is set in the same manner. Therefore the sun protection systems is ready for operation within a matter of seconds.

Type 11 CSM-868

Radio awning drives with electronic control and freely programmable end positions

Type 11 CSM-868 and Type 11 CSM-F-868 (230V/50 Hz)

Application:	**Textile sun protection**
Limit switch:	Electronic limits
Highlights:	Blockage detection Up/Down
	Limits can be adjusted via radio remote control or installation lead
	Plug-able cable
Shaft size:	From Ø = 63 mm
Radio system:	Uni-directional 868 MHz radio

**Type 11 CSM-868
Possible limit switch modes**

Upper limit switch	Lower limit switch
On limit stop	Freely programmable
Freely programmable	On limit stop

**Type 11 CSM-F-868
Possible limit switch modes**
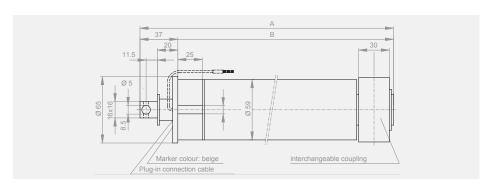
Upper limit switch	Lower limit switch
Freely programmable	Freely programmable

Type 11 CSM-868

Textile sun protection
Cassette box awning
(awnings systems with torque stop)

Type 11 CSM-F-868

Textile sun protection
(awning systems without torque stop)

Marker colour: beige
Plug-in connection cable
interchangeable coupling

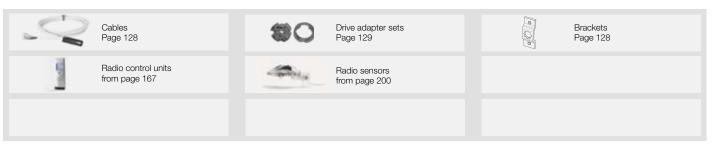## Technical data and dimensions

Type	Type 11/10 CSM-868	Type 11/12 CSM-868	Type 11/10 CSM-F-868	Type 11/12 CSM-F-868
Max. torque (Nm)	100	120	100	120
Speed (rpm)	12			
Operating Voltage (V)	1 ~ 230			
Frequency (Hz)	50			
Noiseless soft brake	–			
Current (A)	1.9			
Power (W)	430			
Shaft Ø (mm)	63			
Ingress protection (IP)	44			
Max. limit switch range in Revolutions of the shaft	21			
Operating mode (KB in min.)	4			
Length A (mm)	694			
Length B (mm)	618			
Weight (kg)	4.9			
Temperature range (°C)	-20 to +60			
Conformity	$C\epsilon$			
Connecting cable pluggable (m)	2.0			

	Type 11/10 CSM-868	Type 11/12 CSM-868	Type 11/10 CSM-F-868	Type 11/12 CSM-F-868
Item Number	31 407.0002	31 427.0002	31 707.0002	31 437.0002

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 128	Drive adapter sets Page 129	Brackets Page 128
Radio control units from page 167	Radio sensors from page 200	

RevoLine
Type 11
Venetian blind drives
Speciality drives
Hausautomation, radio controls, radio sensors
Hardwired controls sensors
Door drives
Door controls
Adapter profiles Lifting capacity tables

Type 11 CSM-E

Tubular motors for awnings with electronic limits

Type 11 CSM-E (230V/50 Hz)

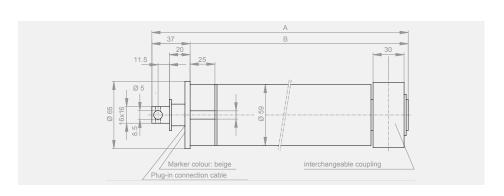|	
Application:	**Textile sun protection**
Limit switch:	Electronic limits
Highlights:	Smart force measurement
	Blockage detection Up/Down
	Parallel connection possible
	Limits can be adjusted via installation lead
	Plug-able cable
Shaft size:	From Ø = 63 mm

Possible limit switch modes

Upper limit switch	Lower limit switch
On limit stop	Freely programmable
Freely programmable	On limit stop

Textile sun protection
Cassette box awning
(awnings systems with torque stop)

Marker colour: beige
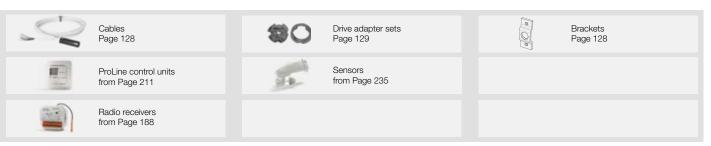Plug-in connection cable
interchangeable coupling

Technical data and dimensions

Type	Type 11/10 CSM-E	Type 11/12 CSM-E
Max. torque (Nm)	100	120
Speed (rpm)	12	
Operating Voltage (V)	1 ~ 230	
Frequency (Hz)	50	
Noiseless soft brake	–	
Current (A)	1.9	
Power (W)	430	
Shaft Ø (mm)	63	
Ingress protection (IP)	44	
Max. limit switch range in Revolutions of the shaft	21	
Operating mode (KB in min.)	4	
Length A (mm)	694	
Length B (mm)	618	
Weight (kg)	4.9	
Temperature range (°C)	-20 to +60	
Conformity	CE	
Connecting cable pluggable (m)	2.0	

	Type 11/10 CSM-E	Type 11/12 CSM-E
Item Number	31 534.0002	31 555.0002

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 128	Drive adapter sets Page 129	Brackets Page 128
ProLine control units from Page 211	Sensors from Page 235	
Radio receivers from Page 188		

RevoLine
Type 11
Venetian blind drives
Speciality drives
Hausautomation, radio controls, radio sensors
Hardwired controls sensors
Door drives
Door controls
Adapter profiles Lifting capacity tables

Type 11

Tubular drives with mechanical limit switches for roller shutters and sun protection systems

Type 11 (230V/50 Hz)

Application:	**Roller shutter and textile sun protection**
Limit switch:	Mechanical limit switches
Shaft size:	From Ø = 63 mm
Features:	Plug-able cable
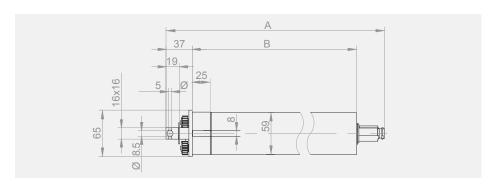
Possible limit switch modes

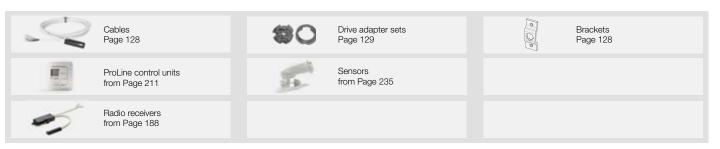| Upper limit switch	Lower limit switch
Freely programmable	Freely programmable

Shippable with a max. limit switch range of either 21 or 32 rpm

Technical data and dimensions

Type	Type 11/10	Type 11/12	Type 11/10 32 rev.	Type 11/12 32 rev.
Max. torque (Nm)	100	120	100	120
Speed (rpm)	12			
Operating Voltage (V)	1 ~ 230			
Frequency (Hz)	50			
Noiseless soft brake	–			
Current (A)	1.9			
Power (W)	430			
Shaft Ø (mm)	63			
Ingress protection (IP)	44			
Max. limit switch range in Revolutions of the shaft	21		32	
Operating mode (KB in min.)	4			
Length A (mm)	694			
Length B (mm)	618			
Weight (kg)	4.9			
Temperature range (°C)	-20 to +60			
Conformity	CE	CE	CE	CE
Connecting cable pluggable (m)	2.0			

	Type 11/10	Type 11/12	Type 11/10 32 rev.	Type 11/12 32 rev.
Item Number	31 332.0002	31 352.0002	31 338.0001	31 358.0001

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 128	Drive adapter sets Page 129	Brackets Page 128
ProLine control units from Page 211	Sensors from Page 235	
Radio receivers from Page 188		

RevoLine

Type 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

Cables and accessories

It is not possible to return connecting cables.

23 243.0002

23 395.2701

Special cable lengths in combination with the drive (standard 2.0 m), **white**

Item Number	Type/Item Description
99 000.0001	2.0 m plug-in connecting cable (standard)
99 000.0201	3.0 m plug-in connecting cable
99 000.0301	5.0 m plug-in connecting cable
99 000.0401	10.0 m plug-in connecting cable
99 000.0501	0.4 m plug-in connecting cable with Hirschmann plug

Connecting cables without drive, **white**

23 615.0201	2.0 m plug-in connecting cable
23 615.0301	3.0 m plug-in connecting cable
23 615.0401	5.0 m plug-in connecting cable
23 615.0501	10.0 m plug-in connecting cable
23 615.0601	20.0 m plug-in connecting cable
23 615.0101	0.4 m plug-in connecting cable with Hirschmann plug

Installation-, connecting cables and accessories

Item Number	Type/Item Description
23 243.0002	Installation cable
23 246.0001	Installation cable with Hirschmann plug
13 709.7301	5 pole connecting clip for installation cable 23 243.0002
23 395.2701	QuickConnect, the fast connection system, IP 65
23 395.4701	QuickConnect, set of 10
23 846.0001	Stas 3 with clip (motor side)
13 701.5301	Stak 3 (power supply side)

Motor bearings

Star motor bearings

Distance plate

13 106.3501
60 mm centres,
offset

13 103.3901
48 mm centres,
flat

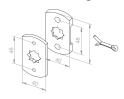**13 103.4001**
60 mm centres,
flat

13 301.0801
Star

13 110.5601
for 13 103.3901

Flat motor bearing

23 109.0001
48 mm centres with
plastic distance plate
(contains no. 13 103.3901
and 13 110.5601)

**Base plate with
motor bearing**

23 833.0001
48/60/85/90 mm
centres

Plaster-in bracket

13 300.8501

Mounting plate

23 457.0001

**Universal adapter
plate set**

23 687.0501
With 2 countersunk
screws M6 x 16
and nuts

Drive adapter sets

Profiles of the drive adapter sets in 1:1 scale on page 299.

Item Number	Type/Item Description	Notch tubes	Round tubes	Profile tubes
22 024.0001	Ø 78 x 1.0 mm, MHZ	•		
22 049.0001	Ø 78 x 1.0/1.25 mm, Döhner round	•		
22 055.0001	Ø 78 x 1,25 mm, round notch Röchling	•		
22 057.0001	Ø 78 x 1,0 mm, flat notch	•		
22 038.0001	Ø 85 x 1,0 mm	•		
22 023.0001	Ø 90 mm, Le-Profil, Ø 89 mm, Deprat	•		
22 085.0001	Ø 90.5 x 1.25 mm, MHZ	•		
13 116.9601	Ø 63 x 1.5 mm without thread		•	
22 025.0001	Ø 63 x 1.5 mm with 4 x M6 thread		•	
22 044.0001	Ø 70 x 1.5 mm without thread		•	
22 026.0001	Ø 70 x 1.5 mm with 4 x M6 thread		•	
22 045.0001	Ø 70 x 2.0 mm without thread		•	
22 027.0001	Ø 70 x 2.0 mm with 4 x M6 thread		•	
22 058.0001	Ø 83 x 1.5 mm without thread		•	
22 031.0001	Ø 83 x 1.5 mm with 4 x M6 thread		•	
22 046.0001	Ø 98 x 2.0 mm without thread		•	
22 022.0001	Ø 98 x 2.0 mm with 4 x M6 thread		•	
22 047.0001	Ø 102 x 2.0 mm without thread		•	
22 021.0001	Ø 102 x 2.0 mm with 4 x M6 thread		•	
22 048.0001	Ø 133 x 2.5 mm/Ø 133 x 2.0 mm without thread		•	
22 036.0001	Ø 133 x 2.5 mm/ Ø 133 x 2.0 mm with 4 x M6 thread		•	
13 117.0901	Ø 67 x 1.5 mm, MHZ			•
22 020.0001	Octagonal, 70, Selve, Eckermann, Roma			•
22 029.0001	Hexagonal, Ø 75, Butzbach, Mäule			•
22 033.0001	Ø 76 x 1.2 mm, Kittelberger, Wiral			•
22 032.0001	ZF 80, Zurflüh-Feller			•
22 037.0001	Hexagonal, Ø 85 mm, Butzbach			•
22 035.0001	Octagonal, 102 x 2.0 mm, Alulux			•
22 028.0001	Octagonal, 102 x 2.5 mm, Roma			•
22 030.0001	Octagonal, 114, Heroal			•
22 034.0001	Ø 128 x 1.5 mm, Alukon			•
22 039.0001	Ø 85 x 1.2 mm, Imbac			•
22 043.0001	Ø 85 x 1.2 mm, Griesser			•

RevoLine
Type 11
Venetian blind drives
Speciality drives
Hausautomation, radio controls, radio sensors
Hardwired controls sensors
Door drives
Door controls
Adapter profiles Lifting capacity tables

Type 9 NHK
Type 11 NHK

These drives allow for the optimum operation of gates and doors, roller shutters and awnings. The characteristic features are the well-balanced torques of 8 to 50 Nm. Even in the event of a power failure the system may be operated quite simply with an emergency crank handle. The mechanical limit stop is simple to adjust, regardless of whether it is installed on the left or right side. The compact design of the tubular drives is excellently suited to installation in confined spaces and can also be used for roll-down systems. The end position setting is not changed when using the manual override.

The safety gear box will not allow any feedback on the crank handle in case power returns to the motor while operating the motor manually.

Type 9 NHK

Tubular drives with manual override (NHK)

Type 9 NHK (230V/50 Hz)

Application: **Door, roller shutter and textile sun protection**

Limit switch: Mechanical limit switches
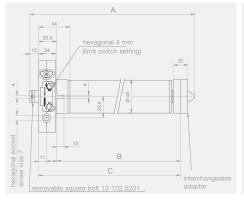Shaft size: From Ø = 50 mm
Features: Plug-able cable
Manual override

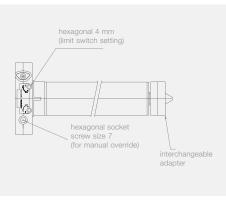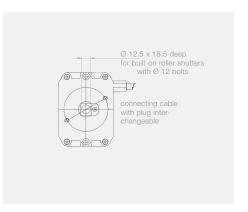| Possible limit switch modes	
Upper limit switch	Lower limit switch
freely programmable	freely programmable

– Plug-able cable
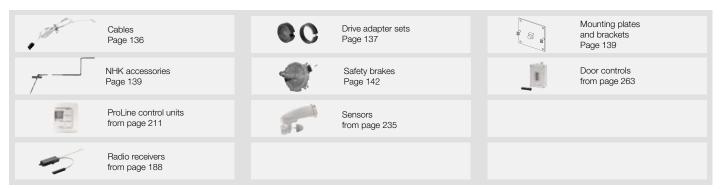– Manual override via 7 mm hexagonal shaft

Dimensions

Technical data and dimensions

Type	Type 9/08 NHK	Type 9/1.3 NHK	Type 9/2 NHK	Type 9/2.5 NHK	Type 9/3 NHK	Type 9/4 NHK	Type 9/5 NHK
Max. torque (Nm)	8	13	20	25	30	40	50
Speed (rpm)	14						10
Operating Voltage (V)	1 ~ 230						
Frequency (Hz)	50						
Noiseless soft brake	–						
Current (A)	0.64		0.85	0.92	1.1	1.22	
Power (W)	145		190	200	260	280	
Shaft Ø (mm)	50						
Ingress protection (IP)	44						
Max. limit switch range in Revolutions of the shaft	29						
Operating mode (KB in min.)	4						
Length A (mm)	617				651	671	
Length B (mm)	559				593	613	
Length C (mm)	585				619	639	
Weight (kg)	2.75		2.63	2.74	3.1	3.25	
Temperature range (°C)	−20 to +60						
Conformity	C E				C E		
Connecting cable pluggable (m)	2.0						

	Type 9/08 NHK	Type 9/1.3 NHK	Type 9/2 NHK	Type 9/2.5 NHK	Type 9/3 NHK	Type 9/4 NHK	Type 9/5 NHK
Item Number	31 171.0004	31 181.0004	31 191.0003	31 211.0003	31 221.0004	31 925.0001	31 453.0001

All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 136	Drive adapter sets Page 137	Mounting plates and brackets Page 139
NHK accessories Page 139	Safety brakes Page 142	Door controls from page 263
ProLine control units from page 211	Sensors from page 235	
Radio receivers from page 188		

RevoLine

Type 9 NHK

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

Type 11 NHK
Tubular drives with manual override (NHK)

Type 11 NHK (230V/50 Hz)

Application:	**Door, roller shutter and textile sun protection**
Limit switch:	Mechanical limit switches
Shaft size:	From Ø = 63 mm

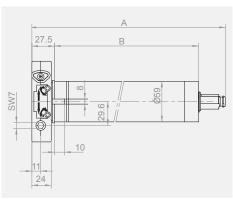**Possible limit switch modes**

Upper limit switch	Lower limit switch
freely programmable	freely programmable

– Plug-able cable
– Manual override via 7 mm hexagonal shaft

Dimensions

Technical data and dimensions

Type	Type 11/4 NHK	Type 11/6 NHK	Type 11/8 NHK	Type 11/10 NHK	Type 11/12 NHK
Max. torque (Nm)	40	60	80	100	120
Speed (rpm)	15	12	15	12	
Operating Voltage (V)			1 ~ 230		
Frequency (Hz)			50		
Noiseless soft brake			–		
Current (A)		1.5		1.9	
Power (W)		330		430	
Shaft Ø (mm)			63		
Ingress protection (IP)			44		
Max. limit switch range in Revolutions of the shaft			29		
Operating mode (KB in min.)		5		4	
Length A (mm)			673		
Length B (mm)			639		
Weight (kg)	4.35	4.42	5.53	5.54	
Temperature range (°C)			-20 to +60		
Conformity	CE		CE		CE
Connecting cable pluggable (m)			2.0		

		Type 11/4 NHK	Type 11/6 NHK	Type 11/8 NHK	Type 11/10 NHK	Type 11/12 NHK
	Item Number	31 081.0004	31 061.0005	31 131.0003	31 342.0003	31 362.0002

Drives with larger limit switch range or for 100 V – 250 V/50 or 60 Hz are available on request.
All drives are exclusive of: drive adapter, wall bracket (motor bearing) and switches.

Accessories

Cables Page 134	Drive adapter sets Page 136	Mounting plates and brackets Page 137
NHK accessories Page 137	Safety brakes Page 140	Door controls from page 283
ProLine control units from page 205	Sensors from page 229	
Radio receivers from page 186		

RevoLine

Type 11 NHK

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

Cables and accessories

It is not possible to return connecting cables.

Special cable lengths in combination with the drive
(standard 2.0 m), **white**

Item Number	Type/Item Description
99 000.0001	2.0 m plug-in connecting cable (standard)
99 000.0201	3.0 m plug-in connecting cable
99 000.0301	5.0 m plug-in connecting cable
99 000.0401	10.0 m plug-in connecting cable
99 000.0601	20.0 m plug-in connecting cable
99 000.0501	0.4 m plug-in connecting cable with Hirschmann plug

Connecting cables without drive, **white**

23 615.0201	2.0 m plug-in connecting cable
23 615.0301	3.0 m plug-in connecting cable
23 615.0401	5.0 m plug-in connecting cable
23 615.0501	10.0 m plug-in connecting cable
23 615.0601	20.0 m plug-in connecting cable
23 615.0101	0.4 m plug-in connecting cable with Hirschmann plug

Installation-, connecting cables and accessories

23 243.0002	Installation cable
23 246.0001	Installation cable with Hirschmann plug Stak 3
13 709.7301	5 pole connecting clip for installation cable 23 243.0002
23 395.2701	QuickConnect, the fast connection system, IP 65
23 395.4701	QuickConnect, set of 10
23 846.0001	Stas 3 with clip (motor side)
13 701.5301	Stak 3 (power supply side)
13 308.0001	Flexible adjustment aid

23 395.2701

13 308.0001

23 246.0001

23 243.0002

Drive adapter sets for Type 9 NHK

Profiles of the drive adapter sets in 1:1 scale on page 290.

Item Number	Type/Item Description	Notch tubes	Round tubes	Profile tubes
23 510.0001	Ø 62 mm	•		
23 583.0001	Ø 63 mm	•		
23 547.0001	Ø 70 mm (round notch)	•		
23 559.0001	Ø 70 mm	•		
23 563.0001	Ø 70 mm, Imbac, Ahlquist	•		
23 581.0002	Ø 70 x 0.7 mm, Perma, decagonal	•		
23 641.0001	Ø 70 mm, Griesser	•		
23 700.0001	Ø 70 mm, Welser	•		
23 560.0001	Ø 74 mm	•		
23 580.0001	Ø 78 mm	•		
23 538.0001	Ø 78 mm, Döhner	•		
23 540.0001	Ø 78 x 1.0 mm, crown 23 mm wide	•		
23 600.0001	Ø 78 mm, MHZ	•		
23 681.0001	Ø 85 mm	•		
23 643.0001	Ø 85 mm, Griesser	•		
13 105.5701	Ø 50 x 1.5 mm		•	
13 110.7401	Ø 50 mm, Siral		•	
23 578.0002	Ø 62 x 2.0 mm und Ø 60 x 1.5 mm		•	
23 585.0001	Ø 63 x 1.5 mm		•	
23 546.0001	Ø 70 x 1.5 mm		•	
23 372.0001	Ø 102 x 1.5 mm		•	
23 373.0001	Ø 102 x 3.5 mm		•	
23 301.0001	50 mm, Selve, octagonal			•
23 873.0001	50 x 1.5 mm, Rau, octagonal			•
23 586.0001	Ø 55 mm, elero			•
23 870.0002	Ø 57 mm, Alu, Ates, MHZ			•
23 834.0001	Ø 58 mm, Termo, Perco			•
23 555.0001	60 mm, Selve, Döhner, Eckermann, Heinzmann, octagonal			•
23 874.0001	Ø 60 mm, Alu-Plastik, Kittelberger			•
23 906.0001	Ø 60 mm, Bonfante, octagonal			•
23 554.0001	Ø 60 mm, Butzbach, Mäule, hexagonal			•
23 534.0001	60 mm, IMBAC, octagonal			•
23 557.0001	60 mm, Martin, octagonal			•
23 562.0001	Ø 62 mm, LeProfil und Krülland			•
23 558.0001	Ø 64 mm, Zurflüh-Feller			•
23 522.0001	Ø 65 mm, HOOS			•
23 556.0001	Ø 65 mm, IMBAC, Metalpress, Eckermann			•
23 529.0001	70 mm, Selve, Döhner, Eckermann, octagonal			•
23 320.0001	Ø 71 x 1.5 mm			•
23 548.0001	Ø 75 mm, Butzbach, Mäule hexagonal			•
23 336.0001	Ø 76 x 1.2 mm, Kittelberger			•
23 528.0001	Ø 80 mm, Zurflüh-Feller			•
23 622.0001	Ø 83 x 1.5 mm			•
23 542.0001	Ø 85 mm, LeProfil			•

elero

RevoLine

Type 9 + 11 NHK

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

Drive adapter sets for Type 11 NHK

Profiles of the drive adapter sets in 1:1 scale on page 331.

Item Number	Type/Item Description	Notch tubes	Round tubes	Profile tubes
22 024.0001	Ø 78 x 1.0 mm, MHZ	•		
22 049.0001	Ø 78 x 1.0/1.25 mm, Döhner round	•		
22 055.0001	Ø 78 x 1.25 mm, round notch Röchling	•		
22 057.0001	Ø 78 x 1.0 mm, flat notch	•		
22 038.0001	Ø 85 x 1.0 mm	•		
22 023.0001	Ø 90 mm, Le-Profil, Ø 89 mm, Deprat	•		
22 085.0001	Ø 90.5 x 1.25 mm, MHZ	•		
13 116.9601	Ø 63 x 1.5 mm without thread		•	
22 025.0001	Ø 63 x 1.5 mm with 4 x M6 thread		•	
22 044.0001	Ø 70 x 1.5 mm without thread		•	
22 026.0001	Ø 70 x 1.5 mm with 4 x M6 thread		•	
22 045.0001	Ø 70 x 2.0 mm without thread		•	
22 027.0001	Ø 70 x 2.0 mm with 4 x M6 thread		•	
22 058.0001	Ø 83 x 1.5 mm without thread		•	
22 031.0001	Ø 83 x 1.5 mm with 4 x M6 thread		•	
22 046.0001	Ø 98 x 2.0 mm without thread		•	
22 022.0001	Ø 98 x 2.0 mm with 4 x M6 thread		•	
22 047.0001	Ø 102 x 2.0 mm without thread		•	
22 021.0001	Ø 102 x 2.0 mm with 4 x M6 thread		•	
22 048.0001	Ø 133 x 2.5 mm/Ø 133 x 2 mm without thread		•	
22 036.0001	Ø 133 x 2.5 mm/Ø 133 x 2.0 mm with 4 x M6 thread		•	
13 117.0901	Ø 67 x 1.5 mm, MHZ			•
22 020.0001	Octagonal, 70, Selve, Eckermann, Roma			•
22 029.0001	Hexagonal, 75, Butzbach, Mäule			•
22 033.0001	Ø 76 x 1.2 mm, Kittelberger, Wiral			•
22 032.0001	ZF 80, Zurflüh-Feller			•
22 037.0001	Hexagonal, 85 mm, Butzbach			•
22 035.0001	Octagonal, 102 x 2.0 mm, Alulux			•
22 028.0001	Octagonal, 102 x 2.5 mm, Roma			•
22 030.0001	Octagonal, 114, Heroal			•
22 034.0001	Ø 128 x 1.5 mm, Alukon			•
22 039.0001	Ø 85 x 1.2 mm, Imbac			•
22 043.0001	Ø 85 x 1.2 mm, Griesser			•

Motor bearings

Star motor bearings

13 106.3501
60 mm centres,
offset

13 103.3901
48 mm centres,
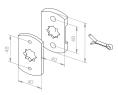flat

13 103.4001
60 mm centres,
flat

Distance plate

13 110.5601
for 13 103.3901

Plaster-in bracket

13 300.8501

13 301.0801
Star

Flat motor bearing

23 109.0001
48 mm centres with plastic
distance plate (contains
no. 13 103.3901 and
13 110.5601)

Base plate with motor bearing

23 833.0001
48/60/85/90 mm
centres

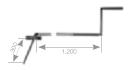## Mounting plate

23 457.0001

23 800.0001

Universal adapter plate set

23 687.0501
With 2 countersunk
screws M6 x 16
and nuts

Hand control

Crank handles

23 764.0002
Hinged crank handle
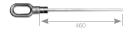with link bearing (45°)
and 7.0 mm hexagonal

23 731.0002
Link bearing with
awning eyelet

23 771.0002
7.0 mm hexagonal
with awning eyelet
Length: 180 mm

23 771.0102
7.0 mm hexagonal
with awning eyelet
Length: 460 mm

23 771.0301
7.0 mm hexagonal
with awning eyelet
Length: 600 mm

12 300.0901
Crank handle
with awning hook
Length: 1.4 m

23 772.0002
Link bearing (45°) for crank
handle with adapter cone

23 342.0001
Link bearing (90°)
for crank handle
with adapter cone

23 773.0001
Hinged crank handle
with adapter cone

NMA adapter set

23 199.5701
For Type 9/Type 11 NHK

Base set NMA

23 199.9501
Consisting of: angle drive/
drive shaft/crank handle

23 081.0001
Drive shaft extendable
from 1.7 to 3.0 m

23 030.0001
Angle drive

13 305.8001
Crank handle for
angle drive

A.P. KeyBox

23 080.0001
With integrated crank handle,
key switch (dead man safety)
and 0.50 m long connecting
shaft 10 mm hexagonal. To
operate NMA motors from out-
side manually and electrically.
Requires NMA Base kit
23 199.9501

RevoLine

Type 9 + 11 NHK

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

Rigid shaft fastener MiniClick and MaxiClick

Universal for octagonal tubes, 40, 50, 60 and 70 mm

MiniClick, with twist lock

For mini profiles and octagonal shafts size SW 40, 50
(0.6 and 0.8 mm) and SW 60 (0.6 and 0.9 mm)

Item Number	Type/Item Description
13 309.0001	MiniClick, 1 section
13 309.0101	MiniClick, 2 sections
13 309.0201	MiniClick, 3 sections
13 309.0301	MiniClick, 4 sections
13 309.0401	MiniClick profile insert
13 309.0501	MiniClick profile spacer insert

MaxiClick, with twist lock

For standard profiles and octagonal shaft size SW 60
(0.9 mm) and SW 70 (1.0 / 1.2 and 1.5 mm)

Item Number	Type/Item Description
13 309.1001	MaxiClick, 1 section
13 309.1101	MaxiClick, 2 sections
13 309.1201	MaxiClick, 3 sections
13 309.1401	MaxiClick profile insert
13 309.1501	MaxiClick profile spacer insert

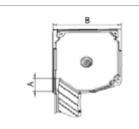### MiniClick selection table

Shaft fastener	By box depth B[1] (mm)	Number/ shutter	Shutter weight (kg)	Application range
1 section	115 – 150			
2 sections	155 – 180	Use minimum 1 fastener every 60 cm or 4 Nm drive torque	max. 8 / shaft fastener	Mini- / maxi profile[1]
3 sections	185 – 210			
4 sections	215 – 240			

MaxiClick selection table

Shaft fastener	By box depth B[1] (mm)	Number/ shutter	Shutter weight (kg)	Application range
1 section	125 – 160			
2 sections	160 – 200	Use minimum 1 fastener every 60 cm or 6 Nm drive torque	max. 12 / shaft fastener	Mini- / maxi profile[1]
3 sections	200 – 250			

[1] Select MiniClick or MaxiClick by Shaft size.

The top most profile slat should not be exposed by more than 1/2 profile height above the guide rails (A).
Anti-push up will only work if the slats a compressed and can exert upwards pressure against the Anti-push up device.

Anti push-up devices

Anti push-up device mini profile

13 301.8901
2 sections

13 301.9101
3 sections

Anti push-up device standard profile

13 301.8801
2 sections

13 301.9001
3 sections

13 301.9201
4 sections

Fixing rings

13 302.1501
For 50 mm
octagonal shaft

Ø88

13 301.9501
For 60 mm
octagonal shaft

13 301.9601
For 70 mm
octagonal shaft

13 301.9701
For 65 mm rofile shaft
Hoos, IMBAC, Metalpress,
Eckermann

RevoLine

Type 9 + 11 NHK

Venetian blind drives

Speciality drives

Hausautomation, radio
controls, radio sensors

Hardwired controls
sensors

Door drives

Door controls

Adapter profiles
Lifting capacity tables

Safety brakes TA0-RD/X

**for left or right hand installation
suitable for built-on roller shutters**

24 031.0001
TA0-RD/X
max. torque: 147 Nm
max. operating speed: 22 rpm
with damping and electrical cut-off

24 040.0001
Pedestal bearing console
complete for TA0-RD/X

Drive adapter sets for Ta0-RD/X (2 pieces required)

Item Number	Type/Item Description	Notch tubes	Round tubes	Profile tubes
13 116.9201	Ø 57 mm, Ates	•		
13 117.0701	Ø 60 mm, AXE, Griesser, Hüppe	•		
13 116.9301	Ø 62 x 0.6 mm, DEPRAT F 2000	•		
13 116.7101	Ø 63 x 1.0 mm	•		
13 116.4502	Ø 70 mm, IMBAC, Ahlquist	•		
13 116.4602	Ø 70 mm, Griesser	•		
13 117.2701	Ø 70 mm	•		
13 117.0601	Ø 71 x 1.5 mm	•		
13 114.8701	Ø 78 x 1.0 mm/78 x 1.25 mm, flat notch, MHZ	•		
13 116.9101	Ø 78 x 1.0 mm, Döhner	•		
13 117.5301	Ø 78 x 1.0 mm/1.25 mm	•		
13 114.7601	Ø 85 x 1.0 mm	•		
13 117.0001	Ø 85 x 1.2 mm, IMBAC-Neu, Griesser	•		
13 117.0501	Ø 90 mm, Le Profil and Ø 89 mm, DEPRAT	•		
13 116.2901	Ø 50 x 1.5 mm		•	
13 116.9901	Ø 50 x 1.5 mm, Siral		•	
13 116.9501	Ø 60 x 1.5 mm and Ø 62 x 2.0 mm		•	
13 116.9601	Ø 63 x 1.5 mm		•	
13 116.9701	Ø 70 x 1.5 mm		•	
13 117.2801	Ø 70 x 2.0 mm		•	
13 117.7101	Ø 83 x 1.5 mm (with profile)		•	
13 117.0301	Ø 102 x 1.5 mm and Ø 102 x 2.0 mm		•	
13 117.0401	Ø 102 x 3.5 mm and Ø 98 x 2.0 mm		•	
13 117.7901	Ø 133 x 2.5 mm and Ø 133 x 2.0 mm		•	
13 117.8501	Ø 50 mm, Soprofen			•
13 115.9501	Octagonal, 50, Selve			•
13 117.8301	Ø 53 mm, Deprat			•
13 116.1001	Ø 54 mm, Zurflüh-Feller			•
13 116.9001	Ø 55 mm, elero			•
13 117.0201	Ø 58 x 1.5 mm Alu, Termo Perco			•
13 116.8301	Octagonal, 60, Selve, IMBAC			•
13 117.0801	Octagonal, 60 mm, Bonfante			•
13 116.9801	Hexagonal, 60 x 0.7 mm, Butzbach, Mäule			•
13 117.0101	Ø 60 mm, Alu-Plast, Kittelberger, Ø 63 x 1.5 EHAGE			•
13 116.9401	Ø 62 mm Le-Profil, Krülland			•
13 114.8301	Ø 64 mm, Zurflüh-Feller			•
13 116.7401	Ø 65 mm, IMBAC, Eckermann, Metallpress			•
13 116.7501	Ø 65 mm, Hoos			•
13 117.0901	Ø 67 x 1.5 mm, MHZ			•
13 115.9301	Octagonal, 70 Selve, Döhner, Eckermann			•
13 117.1101	Hexagonal, 75 mm, Butzbach, Mäule			•
13 116.7601	Ø 76 x 1.2 mm, Kittelberger, Wiral			•
13 117.8001	Pentagonal, 78 mm, Meimo			•
13 114.8501	Ø 80 mm, Zurflüh-Feller			•
13 117.8601	Hexagonal, Ø 80 mm, Butzbach			•
13 117.7701	Octagonal, 102 x 2.0 mm, Alulux			•
13 117.5101	Octagonal, 102 x 2.5 mm, Roma			•
13 117.5501	Octagonal, 114 mm, Heroal			•
13 117.7401	Ø 128 x 1.5 mm, Alukon			•

RevoLine

Type 9 + 11 NHK

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

Venetian blind drives
JA/JA Soft
JAR/JAR Soft
JA NHK

JA drives are tailored in an optimum manner to the specific requirements of venetian blinds. Their reliability and precision make them maintenance-free "assistants". They are fitted with thermal overload protection and easy-to-set limit switches. The limit switches for the upper and lower switching points are separate and accessible from outside. An indestructible planetary gear, the splash-proof motor housing, and the use of extremely precise individual components ensure the highest quality and a long service life. JA drives with a "Soft" brake guarantee a gentle arrival – without any disturbing clicking noise, something which is a particularly major advantage for the indoor area and in the event of frequent adjustment by building automation systems.

JA/JA Soft

Venetian blind drive JA

JA drives (230V/50 Hz)	
Application:	**Venetian blind/roman shades/speciality applications**
Limit switch: Features :	Mechanical limit switches Noiseless soft brake (only JA Soft versions)

JA Soft		
JA Soft		Noiseless soft brake, drive shaft output on both sides
JAe		Standard brake system, drive shaft output on one side only
JAdk		Standard brake system, drive shaft output on both sides

Technical data and dimensions

Type	JA 06 Soft	JA 09 Soft	JA 06e	JA 06dk	JA 10dk	JA 20dk
Max. torque (Nm)	6	9	6		10	2 x 10
Speed (rpm)			26			
Operating Voltage (V)	1 ~ 230					
Frequency (Hz)	50					
Noiseless soft brake	•		–			
Current (A)	0.5	0.68	0.5		0.55	1.0
Power (W)	115	156	115		125	230
Shaft (mm)	–					
Ingress protection (IP)	44					
Max. limit switch range in Revolutions of the shaft	85					
Operating mode (KB in min.)	5	4	5			4
Length A (mm)	229	260	202	228	259	284
Weight (kg)	1.52	1.95	1.53	1.63	1.81	2.23
Temperature range (°C)	-20 to +60					
Conformity	CE					
Connecting cable (m)	0.8 (with Hirschmann plug Stas 3, with clip)					

	JA 06 Soft	JA 09 Soft	JA 06e	JA 06dk	JA 10dk	JA 20dk
Item Number	35 204.0002	35 224.0002	35 022.0002	35 052.0002	35 062.0002	35 072.0002

Installation cable with Hirschmann plug Stak 3	
Item Number	23 246.0001

Accessories

Assembly kits Page 155	Damper Page 155	Spring clip fixing kits from page 155
Spring clips Page 155	Drive shaft adapters Page 154	Plugs Page 154
ProLine control units from page 211	Sensors from page 235	Installation cable with Hirschmann plug Page 154
Radio control units from page 167	Radio receivers from page 188	

RevoLine

Type 9 + 11

JA/JA Soft

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

JAR/JAR Soft

Venetian blind drives with additional limit switch JAR

JAR drives (230V/50 Hz)

Application:	**Venetian blind/speciality applications**
Limit switch: Features:	Mechanical limit switches secondary lower end limit Noiseless soft brake (only JAR Soft versions)

JAR Soft

noiseless soft brake
drive shaft output on both sides

JARdk

drive shaft output on both sides
electromagnetic brake

Technical data and dimensions

Type	JAR 06 Soft	JAR 09 Soft	JAR 06dk	JAR 10dk	JAR 20dk
Max. torque (Nm)	6	9	6	10	20
Speed (rpm)			26		
Operating Voltage (V)			1 ~ 230		
Frequency (Hz)			50		
Noiseless soft brake		•		–	
Current (A)	0.5	0.68	0.5	0.55	1.0
Power (W)	115	156	115	125	230
Shaft (mm)			–		
Ingress protection (IP)			44		
Max. limit switch range in Revolutions of the shaft			85		
Operating mode (KB in min.)	5	4	5	5	4
Length (mm)	273	304	273	304	329
Weight (kg)		1.87	1.59	1.87	2.31
Temperature range (°C)			-20 to +60		
Conformity			CE		
Accessories included		Connecting cable 0.8 m with Hirschmann plug Stas 4 (with clip)			

	JAR 06 Soft	JAR 09 Soft	JAR 06dk	JAR 10dk	JAR 20dk
Item Number	35 084.0002	35 094.0002	35 082.0002	35 092.0002	35 102.0002

Installation cable for JAR drives	
Item Number	26 843.0001

Accessories

Assembly kits Page 155		Damper Page 155		Spring clip fixing kits from page 155	
Spring clips Page 155		Drive shaft adapters Page 154		Plugs Page 154	
Installation cable with Hirschmann plug Page 154					

RevoLine
Type 9 + 11
JAR/JAR Soft
Speciality drives
Hausautomation, radio controls, radio sensors
Hardwired controls sensors
Door drives
Door controls
Adapter profiles
Lifting capacity tables

JA NHK

Venetian blind drive JA NHK

JA NHK drives (230V/50 Hz)
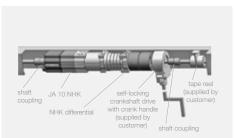
Application:	**Venetian blind/roman shades/speciality applications**
Limit switch:	Mechanical limit switches
Features:	Manuall operation

drive shaft output on both sides
electromagnetic brake

In the window

shaft coupling

JA 10 NHK

NHK differential

self-locking crankshaft drive with crank handle (supplied by customer)

tape reel (supplied by customer)

shaft coupling

Outwith the window

inside width between differential gear and coupling

shaft coupling

JA 10 NHK

NHK differential

shaft coupling

tape reel (supplied by customer)

self-locking crankshaft drive with crank handle (supplied by customer)

Technical data and dimensions

Type	JA 10 NHK			
	In the window for SW 11 mm/ hexagonal	**Outwith the window forSW 11 mm/ hexagonal**	**In the window for SW 12 mm/ 4-side**	**Outwith the window for SW 12 mm/ 4-side**
Max. torque (Nm)	10			
Speed (rpm)	26			
Operating Voltage (V)	1 ~ 230			
Frequency (Hz)	50			
Suitable for	SW 11 mm hexagonal		SW 12 mm 4-side	
In the window	•	–	•	–
Outwith the window	–	•	–	•
Current (A)	0.55			
Power (W)	125			
Ingress protection (IP)	44			
Max. limit switch range in Revolutions of the shaft	85			
Operating mode (KB in min.)	5			
Length A (mm)	328			
Weight (kg)	2.1			
Temperature range (°C)	-20 to +60			
Conformity	$C\epsilon$			
Accessories included	Installation cable with Hirschmann plug Stas 3			

JA 10 NHK	**In the window for SW 11 mm/ hexagonal**	**Outwith the window for SW 11 mm/ hexagonal**	**In the window for SW 12 mm/ 4-side**	**Outwith the window for SW 12 mm /4-side**
Item Number	35 417.0401	35 418.0401	35 417.2401	35 418.2401

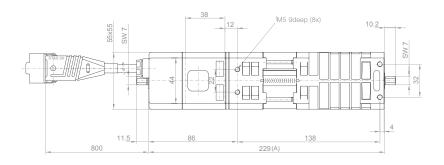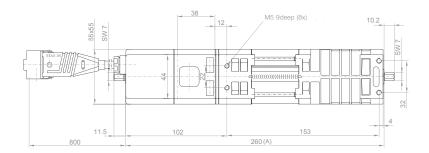| **Installation cable with Hirschmann plug Stak 3**	
Item Number	23 246.0001

Accessories

	Assembly kits Page 155		Damper Page 155		Spring clip fixing kits from page 155
	Spring clips Page 155		Drive shaft adapters Page 154		Plugs Page 154
	ProLine control units from page 211		Sensors from page 235		Installation cable with Hirschmann plug Page 154
	Radio control units from page 169		Radio receivers from page 188		

RevoLine

Type 9 + 11

JA NHK

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

Mounting dimensions

JA drives

Dimension sheets for Venetian blind
drives JAe and JAdk on request.

JA 06 Soft
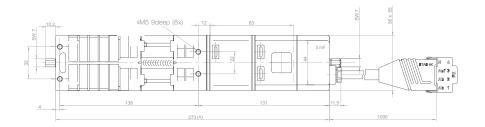
JA 09 Soft
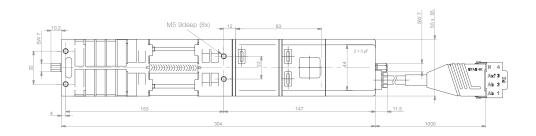
Dimension sheets for Venetian blind
drives JARdk on request.

JAR 06 Soft

JAR 09 Soft
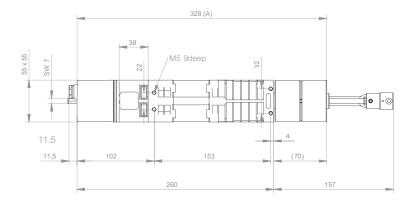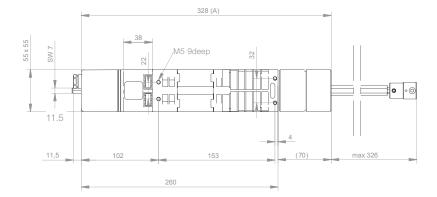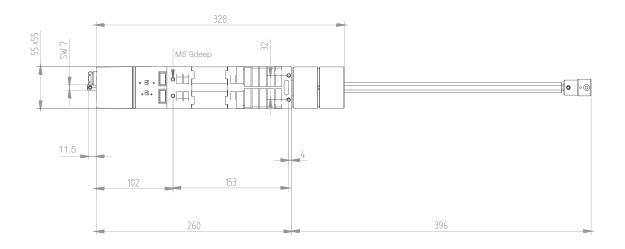
JA drives

JA 10 NHK in the window

JA 10 NHK outwith the window

RevoLine

Type 9 + 11

JA / JAR / JA NHK

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

Drive shaft adapters

1 piece

Item Number	Type/Item Description
16 300.3501	Hexagonal 6.0 mm, with drilling 3.3 mm
16 300.1301	Hexagonal 8.0 mm, with drilling 3.3 mm
16 300.1401	Hexagonal 9.0 mm
16 300.8901	Square 6.0 mm, with drilling 3.3 mm
16 300.1001	Square 8.0 mm, with drilling 3.3 mm
16 300.1101	Square 9.0 mm, with drilling 3.3 mm
16 300.1501	Notch tube Ø 12.0 mm, with drilling 3.3 mm

1 piece, QuickSnap

Item Number	Type/Item Description
16 300.1202	Hexagonal 7.0 mm, short
16 300.8502	Square 7.0 mm, short with M4 thread
16 300.0702	Square 12.0 mm, short, with drilling 3.3 mm
16 300.2402	Square 10.0 mm, short, with drilling 3.3 mm
16 300.1602	Notch tube Ø 14.0 mm, short, with drilling 3.3 mm

Adapter set

– 2 adapters; Taptite screws; Set screws,
micro-encapsulated

26 512.1001	Hexagonal 9.0 mm, with M5 thread
26 506.1001	Hexagonal 13.0 mm, with M5 thread

Coupling set

– 2 couplings; short version; no continuous drill hole;
  no screw thread; 2 self-tapping screws; 2 suitable
  self-securing headless screws

26 517.0001	Square 6.0 mm, with drilling 3.3 mm

Adapter set, QuickSnap

– 2 adapters; 2 set screws, micro-encapsulated

26 514.0002	Hexagonal 11.0 mm, with M5 thread
26 500.1002	Notch tube 14.0 mm, long, with M5 thread
26 504.1002	Square 12.0 mm, long, with M5 thread
26 513.1002	Square 10.0 mm, long, with M5 thread
26 522.0002	Square 7.0 mm, short, with M5 thread

Electrical assembly accessories

Extension cable with female Hirschmann socket
13 701.5301 at one end, other end of cable
not ready-for-use

Item Number	Type/Item Description
26 618.0201	2.50 m
26 618.0501	5.00 m
26 618.1001	10.00 m

Extension cable with female Hirschmann socket 13 701.5301
at one end and 40 mm of stripped cable at the other end.
Wires with cord end sleeve terminals

26 619.2201	2.20 m
26 618.1501	5.00 m
26 618.0901	9.20 m
26 618.2001	10.00 m

Extension cable with female Hirschmann socket
13 701.5301 and male Hirschmann plug 23 846.0001

26 617.0101	1.25 m
26 617.0201	2.50 m

delivery period following consultation

Hirschmann plugs male

23 846.0001
Stas 3 with clip
(motor side)

13 708.6601
Stas 4 for JAR and SMI
motors (motor side)

16 101.0102
Rubber insert to close
hole in head rail to allow
Hirschmann plug and
cable trough

Hirschmann plugs female

13 701.5301
Stak 3
(power supply side)

13 704.9801
Stak 4 for JAR and
SMI motors
(power supply side)

13 707.5701
Cable clip for head rail

Installation cables

23 246.0001
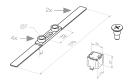with Hirschmann
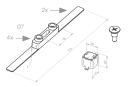plug Stak 3

26.843.0002
for JAR drives with
Hirschmann plug Stak 4

Mechanical assembly accessories

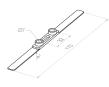**JA/JAR assembly kit with 2 dampers, 4 screws, safety cut-out right (orange) and assembly instruction**
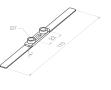
Dampers

26 520.0002
for 29.5 mm shaft height

26 521.0002
for 35.5 mm shaft height
(Faber)

16 101.6001
Height: 2.0 mm
hole distance: 32.0 mm

16 101.6101
Height: 2.0 mm
hole distance: 22.0 mm

16 101.6201
Height: 8.0 mm
hole distance:
32.0 mm

Damper

Screws

Safety cut-out

16 101.6301
Height: 8.0 mm
hole distance: 22.0 mm

16 300.7301
Screws for 2.0 mm
damper height

16 300.7402
Screws for 8.0 mm
damper height

26 200.3601
Safety cut-out right (orange limit)

Safety cut-outs

26 200.8101
Extended Safety cut-out right
(orange limit) 49 mm high

26 200.8001
Extended Safety cut-out right
(orange limit), angled, 60 mm high

16 701.4701
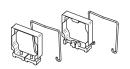Angled cap for Safety cut-out
suitable for left and right

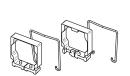**16 101.4501**
Safety cut-out extension,
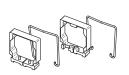10.0 mm

26 200.1101
Safety cut-out left (white)

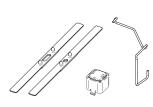**Spring clip fixing kits for venetian blind drives**

26 611.0001
for head box 68 x 66 mm;
shaft height: 35 mm, black
(Griesser)

26 612.0001
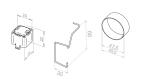for head box 58 x 56 mm;
shaft height: 29 mm, grey

26 613.0002
Set of 10
for head box 58 x 56 mm;
shaft height: 29 mm

26 529.0001
for head box 57 × 51, shaft height 29.5 mm
Set includes:
2 × 16 302.3201 Spring clip
1 × 16 103.1801 Rubber damper with knobs
1 × 16 103.1901 Rubber damper with knobs
1 × 26 200.3601 Safety cut-off right

Assembly kit JA complete

Spring clip, wire

Hose piece

Dampers with fixing knobs

26 527.0001
Containing: 2 x spring clip wire
(16 302.3201), 2 x rubber
damper (16 302.8301),
1 x safety cut-out orange

16 302.3201
Clamping spring for head box
57 x 51 mm (2 pieces are required
per drive)

16 302.8301
Rubber damper tape
for Venetian blind drives
(2 pieces are required
per drive)

16 103.1801
Height: 2.0 mm
knobs distance:
32.0 mm

16 103.1901
Height: 2.0 mm
knobs distance:
22.0 mm

RevoLine

Type 9 + 11

JA / JAR / JA NHK

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

Speciality drives
Folding shutter drive

As a decorative and stylish element for façades, folding shutters are particularly suitable for the restauration of old and listed buildings, as well as for new buildings.
The folding shutter drives from elero can be turned easily into complete folding shutter systems through the addition of ProLine controls. Whether these are hand-held or wall transmitters, timers with weekly switching times or weather sensors.

Folding shutter drive
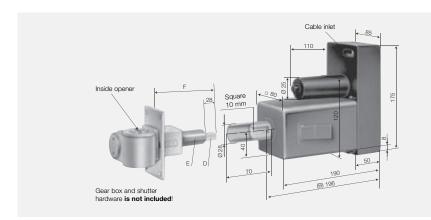## with adjustable torque limiting

Folding shutter drive

Application:	**Folding shutter drive**
Limit switch:	Electronic torque limits
Features:	Obstacle detection
	Suitable for KINI gear for flush or partial surface mounting,
	230 V/50 Hz, Torque up to 20 Nm, KB: 4 min.

Inside opener

Gear box and shutter hardware **is not included**!

Cable inlet

Square 10 mm

Sample calculation
The drive is to be fitted into a wall with a total thickness of 300 mm.

Mounting dimensions
As a result of different wall thicknesses, both the square drive shaft of the inside opener and the protective sheath must be adjusted to match the wall concerned. The following calculation formula can be used here:

Dimension F of the inside opener =
total wall thickness – 196 mm (B)

Note:
The minimum dimension for which fitting is possible is 300 mm for flush mounting. 250 – 300 mm is appropriate for partial surface mounting.

Technical data and dimensions

Type	Folding shutter drive
Max. torque (Nm)	20
Speed (Upm)	26
Operating Voltage (V)	1 ~ 230
Frequency (Hz)	50
Current (A)	0.7
Power (W)	160
Ingress protection (IP)	20
Operating mode (KB in min.)	4
Weight (kg)	3.9
Temperature range (°C)	-20 to +60
Conformity	$C \in$
Accessory included	Cover included *Other required shutter hardware is not included!*

	Folding shutter drive
Item Number	35 741.0002

Suitable shutter hardware available exclusively from:	
Kini Beschläge GmbH Mettmannerstraße 10 A 42551 Velbert Germany	Phone: +49 2051 8089801 Fax: +49 2051 8089803 E-Mail: info@kini.de Web: www.kini.de

Accessories

VarioTec-868 Page 188	AstroTec Page 214	

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

Solar drive systems

Saving energy and green electricity are very fashionable at present, but the possible applications of solar energy are also diverse. The power of the sun is utilized by the new DC drives from elero. These may be used in roller shutters and blinds, awnings and Venetian blinds, and are simple to install as independent systems.

The radio receiver Combio-868 JA DC allows to convert the JA DC drive to a JA DC drive with radio receiver. The solar module with the attractive design can be affixed to an awning, for example, without the need for complex installation work; the cables are pluggable. The angle of the solar module is adjustable.

Solar drive systems 12V DC
Drives

VariEco M DC / -868 DC	SunTop L-868 DC	JA Soft DC

Application: Roller shutter and textile sun protection

Mechanical limit switch
Noiseless soft brake
Shaft size from Ø = 50 mm
Connection cable 3.0 m pluggable
Uni-directional 868 MHz radio
(only 868 MHz version)
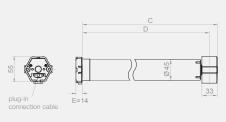
Application: Textile sun protection

Electronic limits with Soft Stop
on end position approach, smart force
measurement, Blockage detection Up/
Down, Limits can be adjusted via radio
remote control or installation lead
Shaft size from Ø = 63 mm
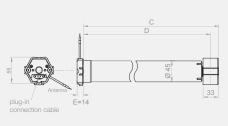Connection cable 3.0 m pluggable
Uni-directional 868 MHz radio

Application: Venetian blind/ roman shades

Mechanical limit switch
Noiseless soft brake
Connection cable 0.8 m with
Quickon-tail (QuickConnect)

VariEco M DC

VariEco M-868 DC

SunTop L-868 DC

JA Soft DC

Technical data and dimensions

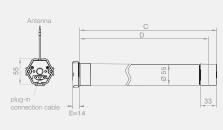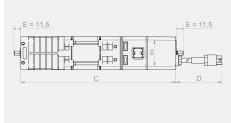| Type	VariEco M10 DC	VariEco M12 DC	VariEco M10-868 DC	VariEco M12-868 DC	SunTop L40-868 DC	JA 04 Soft DC	JA 10 Soft DC
Max. torque (Nm)	10	12	10	12	40	4	10
Speed (rpm)	16				12	33	26
Operating voltage (V)	12 (DC)						
Noiseless soft braike	•				–	•	
Current (A)	4.0	3.5	4.0	3.5	10	4.0	8.5
Power (W)	48	42	48	42	120	48	102
Shaft (mm)	50				63	–	
Ingress protection (IP)	44						
Max. limit switch range in Revolutions of the shaft	35				40	85	
Operating mode (KB in min.)	10						
Length C (mm)	477	497	477	497	542	260	
Length D (mm)	460	480	460	480	525	800 Connection cable with Quickon-tail (QuickConnect)	
Length E (mm)	14				16	11.5	
Weight (kg)	1.6	1.7	1.6	1.7	3.78	1.6	
Temperature range (°C)	-20 to +60						
Conformity	CE						
Connecting cable (m)	3.0 (pluggable)					–	

	VariEco M10 DC	VariEco M12 DC	VariEco M10-868 DC	VariEco M12-868 DC	SunTop L40-868 DC	JA 04 Soft DC	JA 10 Soft DC
Item Number	34 621.0101	34 611.0101	34 622.0101	34 612.0101	36 352.0001	35 113.0001	35 093.0002

For RevoLine SunTop L40-868 DC please use Type 11 drive adapters on page 129.

Accessories

Connecting cables Page 165	Adapter sets Page 129	Assembly kit and dampers Page 155
Brackets RevoLine M Page 96	Quicksnap Page 154	Installation cable DC Page 165
Brackets RevoLine L Page 118	Power unit DC solar from page 164	Radio receivers Page 164
Radio sensors from page 200	Radio transmitters from page 167	

RevoLine
Type 9 + 11
Solar drive systems
Speciality drives
Hausautomation, radio controls, radio sensors
Hardwired controls sensors
Door drives
Door controls
Adapter profiles Lifting capacity tables

Solar drive systems 12 V DC

Controls, power unit and accessories

DC drives (12 V) accessories

Application:	Roller shutter, textile sun protection, venetian blind and roman shade

Combio-868 JA DC

Unidirectional radio receiver for venetian blind DC drives (with connecting cables and double-sided tape) only suitable for elero DC drives

Power unit

Power unit: solar module incl. battery pack with protection circuit (preloaded and ready for use), plug-in connector and 2 wall brackets

Technical data and dimensions

Type	Combio-868 JA DC	Power unit
Max. torque (Nm)	–	
Speed (rpm)	–	
Operating Voltage (V DC)	12 – 13.5	13.2
Current (A)	3.75	–
Power (W)	45	–
Current consumption (mA)	100	–
Ingress protection (IP)	56	44
Max. number of transmitters	16	–
Operating mode (KB in min.)	5	
Dimensions (mm)	L 100 x W 40 x H 15	L 615 x W 98 x H 44
Weight (g)	260	1,400
Temperature range (°C)	-20 to +70	-10 to +60
Conformity	C€	

	Combio-868 JA DC	Power unit
Item Number	28 506.0005	22 050.0002

Compatible accessories

Spare battery incl. protection circuit (LiFePo 13.2V 2,300 mAh)	
Item Number	13 709.8102

Plug-in connector power unit/drive spare part (for tubular drives)	
Item Number	13 306.9601

Pluggable cable 3.0 m (for tubular drives), spare	
Item Number	23 395.6001

QuickConnect (required when using the drives without control unit and power unit)	
Item Number	23 395.2701

Installation cable DC	
Item Number	23 279.0001

Accessories

Radio transmitters from page 167	
Radio sensors from page 200	

RevoLine

Type 9 + 11

Solar drive systems

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

Radio control units
for roller shutters
and sun protection systems

The name "ProLine" stands for a range of control devices that can be used for a variety of applications in the home. Radio control hand-held transmitters, as well as wall-mounted transmitters, sensors and external radio receivers. With devices which are to be deployed in the "visible" living area great significance was attached to a modern, yet timeless design.

Roller shutters, awnings, roller blinds and Venetian blinds may be controlled more reliably, more capably and in a more transparent manner with ProLine 2, the bidirectional radio control system from elero. At the heart of the technology (868 MHz) are bidirectional transceivers which not only receive signals but can also confirm and transmit these. In addition, radio commands are forwarded to radio receivers which otherwise might be out of range (routing functionality). Another decisive advantage over other radio control systems is the fact that the user can directly see the status of signal processing on the hand-held transmitter. As soon as a command has been performed, it receives a feedback signal and thus always knows what's happening.

Centero

Centralized building automation from elero

Simple and intuitive operation of building technologies

Benefits:

- Taught-in devices automatically appear in the app, may be renamed, grouped or assigned icons.
- Even more living comfort thanks to individual scene modes and automatic controls
- Various users can access the Centero at the same time with their smartphones or tablets

Centero Server, Centero Transmitter Stick

The set includes a transmitter stick with 15 channels. Up to 10 transmitter sticks can be operated on one Centero server for extension purposes.

Technical data and dimensions

Type	Centero Server	Centero Transmitter Stick
Operating Voltage (V)	1 ~ 100 – 240	n.a.
Frequency (Hz)	50 – 60	n.a.
Power (W)	5 (20 max.)	n.a.
Transmission power (mW)	n.a.	10
Ingress protection (IP)	20	
Temperature range (°C)	0 to +55	
Radio frequency (MHz)	868	
Dimensions (mm)	L 95 x W 65 x H 49	n.a.
Weight (g)	200	7
Number of channels	–	15
Unidirectional	–	
Bidirectional	•	
Interface	USB 2.0, LAN, WLAN	USB 2.0
Content	Centero Server, Centero Transmitter Stick, Adapter, Cable, Manual	

	Centero Set
Item Number	28 795.0001

Centero Server (excl. Transmitter Stick)	
Item Number	28 785.0001

Centero Transmitter Stick	
Item Number	22 125.0001

Centero Power Pack	
Item Number	28 799.0001

Functional principle

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Home automation

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

Peripheral devices for the Centero
from the company Eldat

Expanded functionality and integration with external devices

Benefits:

- Simple, intuitive learning-in process
- Step by step explanation of learning-in on display
- Associations can be created: "if" "then"

USB stick Easywave RX09
28 895.0301

Bidirectional radio module with 64 channels for building control and monitoring via Easywave receiver.

Motion detector RTS40
28 895.0001

Battery-operated radio motion detector for the indoor area. Automatic reaction in accordance with preferred settings.

Window contact RTS16
28 895.0101

Status monitoring for windows, doors and gates.

Humidity sensor SH01
28 895.0201

Humidity sensor and push button. Cyclical measurement of the relative humidity with switching signal to an Easywave radio receiver.

Technical data and dimensions

Type	USB stick Easywave RX09	Window contact RTS16	Motion detector RTS40	Humidity sensor SH01
Frequency (MHz)	868.30	868.30	868.30	868.30
Modulation	FSK	FSK	FSK	FSK
Coding	Easywave	Easywave A/B	Easywave A/B Easywave Plus	Easywave A/B
Power supply	via USB port	1x 3V battery, CR2032	2x 3V batteries, CR2032	1x 3V battery, CR2032 or alternatively 12-24 V AC/DC ELV to DIN VDE 0100-410
Output channels	64	–	–	–
Current consumption (µA)	–	1,6	–	max. 15
Measuring range (rF)	–	–	–	1-99%
Accuracy	–	–	–	±5% (bei 30%-70% rF)
Switching values	–	–	–	1. >74% RH 2. fast increase by 4% when >40% EH
Data logging (mins.)	–	–	–	every 2
Operating temperature (°C)	0 to +40	-20 to +60		
Radio range (m)	outdoors: approx. 150 indoors: approx. 30			
Brightness range (lx)	–	–	10 to 500	–
Follow-up time	–	–	1 sec. to 131 mins.	–
Monitoring range (m²)	–	–	approx. 16	–
Ingress protection (IP)	20	54	30	30
Dimensions (mm)	24 x 8 x 75	Transmitter: 65 x 12 x 28 Magnet: 18 x 18 x 13	Cover: 55 x 55 x 12 Plate: 71 x 71 x 1.5	Cover: 55 x 55 x 10 Plate: 71 x 71 x 1.5
Weight (g)	13	Transmitter: 20.6 Magnet: 2.2	34.0	32.0 incl. Battery
Scope of supply	USB transceiver, operating manual	Radio-controlled window contact RTS16 incl. battery, bracket with magnet, mounting accessories, operating manual	Transmission module, 2 batteries CR2032, cover, mounting plate, mounting accessories, operating manual	Sensor module, battery CR2032, mounting plate, push button, mounting accessories, operating manual

	USB stick Easywave RX09	Window contact RTS16	Motion detector RTS40	Humidity sensor SH01
Item Number	28 895.0301	28 895.0101	28 895.0001	28 895.0201

Enhancement of Centero with third-party products

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Home automation

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

MultiTec Touch-868

**Multi-channel wall-mounted radio transmitters
for simple operation of building technology**

Simple and intuitive operation of building technology via touchscreen

· 20 single channels, 5 groups channels and 1 central channel
· Individual switching times and vacation program
· Wall-mounted radio transmitters for flush-mounted outlet socket (230 V)
· Astro function may be set per channel
· Automatic adjustment for daylight-saving time
· Illuminated display with menu navigation in 14 different languages
· Ready for operation after entry of date and time

MultiTec Touch-868 silver

Colours

Technical data and dimensions

Type	MultiTec Touch-868		
Mains connection (V)	1 ~ 230		
Power supply / standby (W)	0.5 (typical)		
Power supply via mini USB (socket)	5 V AC, max. 0.5		
Battery type (for buffering)	CR 2032		
Ingress protection (IP)	20		
Protection class (only after correct installation)	II		
Temperature range (°C)	0 to +45		
Display dimensions incl. frame (mm)	145 x 90		
Weight (g) incl. battery	200		
Radio frequency (MHz)	868		
Unidirectional	–		
Bidirectional	•		
Colours	white	silver	titanium grey
Scope of supply	Power supply unit with wall bracket, operating manual, assembly pack with 2 screws and rawlplugs		

	MultiTec Touch-868		
	white	silver	titanium grey
Item Number	28 715.0001	28 716.0001	28 717.0001

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Home automation

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

TempoTel 2

ProLine 2
radio hand-held transmitter

Hand-held transmitter for maximum user comfort

- 10+1-channel hand-held transmitter
- Uni- and bidirectional
- Integrated timer (bidi per channel)
- Astro and holiday program
- Large UP, STOP and DOWN keys
- Visualisation of the transmission and feedback commands
- 10 individual channels, 2 group channels and 1 one master channel
- 3 colours: white, silver, titanium grey
- Transmission-secure radio frequency 868 MHz
- Ability to disable old Uni-directional mode

TempoTel 2 silver

Colours

Technical data and dimensions

Type	TempoTel 2		
Operating Voltage (V DC)	3		
Battery type	2 x LR06 (AA Mignon)		
Ingress protection (IP)	20		
Temperature range (°C)	0 to +50		
Radio frequency (MHz)	868		
Dimensions (mm) (hand-held transmitter)	L 150 x W 51 x H 26		
Weight (g) including batteries	140		
Individual channels	10		
Group channels	2		
Master channel	1		
Manual/automatic switch	•		
Unidirectional	•		
Bidirectional	•		
Colours	white	silver	titanium grey
Accessories included	Magnetic wall bracket, batteries and mounting material (packed ready to mount in display package)		

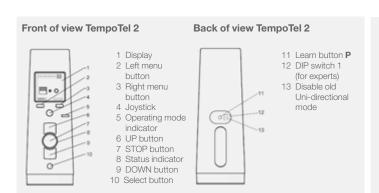|	TempoTel 2		
	white	silver	titanium grey
Item Number Language version 1	28 265.0002	28 266.0002	28 267.0002

Language version 1:
German, English, French, Spanish, Italien, Portuguese, Dutch, Swedish, Dansk, Polish

Item Number Language version 2	28 465 0002	28 466 0002	28 467 0002

Language version 2:
German, English, Hungarian, Czech, Slovenian, Turkish

Front of view TempoTel 2

1 Display
2 Left menu button
3 Right menu button
4 Joystick
5 Operating mode indicator
6 UP button
7 STOP button
8 Status indicator
9 DOWN button
10 Select button

Back of view TempoTel 2

11 Learn button **P**
12 DIP switch 1 (for experts)
13 Disable old Uni-directional mode

Wall bracket

RevoLine
Type 9 + 11
Venetian blind drives
Speciality drives
Hand–held transmitters
Hardwired controls sensors
Door drives
Door controls
Adapter profiles Lifting capacity tables

MultiTel 2 / VarioTel 2

ProLine 2 radio hand-held transmitters

MultiTel 2 – the Comfortable	VarioTel 2 – the Versatile
• 15+1-channel hand-held transmitter • Bidirectional • Large UP, STOP and DOWN keys • Display of position and commands via multi-line display • 15 individual channels, 5 group channels and 1 master channel • 3 colours: white, silver, titanium grey • Transmission-secure radio freq. 868 MHz • Select 1 of 14 languages	• 5+1-channel hand-held transmitter • Uni- and bidirectional • Large UP, STOP and DOWN keys • 5 individual channels, 1 master channel • 3 colours: white, silver, titanium grey • Transmission-secure radio frequency 868 MHz • Ability to disable old Uni-directional mode

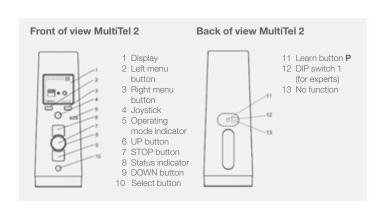

MultiTel 2 silver, VarioTel 2 silver

Colours

Technical data and dimensions

Type	MultiTel 2			VarioTel 2		
Operating Voltage (V DC)	3					
Battery type	2 x LR06 (AA Mignon)					
Ingress protection (IP)	20					
Temperature range (°C)	0 to +50					
Radio frequency (MHz)	868					
Dimensions (mm) (hand-held transmitter)	L 150 x W 51 x H 26			L 120 x W 51 x H 26		
Weight (g) including batteries	140			120		
Individual channels	15			5		
Group channels	5 (each max. 5 individual channels)			–		
Master channel	1					
Manual/automatic switch	•					
Unidirectional	–			•		
Bidirectional	•					
Colours	white	silver	titanium grey	white	silver	titanium grey
Accessories included	Magnetic wall bracket, batteries and mounting material (packed ready to mount in display package)					

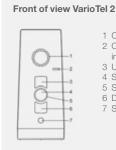|	MultiTel 2			VarioTel 2		
	white	silver	titanium grey	white	silver	titanium grey
Item Number	28 255.0001	28 256.0001	28 257.0001	28 245.0001	28 246.0001	28 247.0001

Available language selection on MultiTel:
German, English, French, Spanish, Italian,
Portuguese, Dutch, Danish, Swedish, Polish,
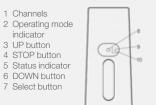Hungarian, Czech, Slovenian, Turkish

Front of view MultiTel 2

1 Display
2 Left menu button
3 Right menu button
4 Joystick
5 Operating mode indicator
6 UP button
7 STOP button
8 Status indicator
9 DOWN button
10 Select button

Back of view MultiTel 2

11 Learn button **P**
12 DIP switch 1 (for experts)
13 No function

Wall bracket

Front of view VarioTel 2

1 Channels
2 Operating mode indicator
3 UP button
4 STOP button
5 Status indicator
6 DOWN button
7 Select button

Back of view VarioTel 2

8 Learn button P
9 DIP switch 1 (for experts)
10 Disable old Uni-directional mode

Wall bracket

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hand-held transmitters

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

LumeroTel 2 / MonoTel 2 / SoloTel 2

ProLine 2 radio hand-held transmitters

LumeroTel 2 – the Comfortable	**MonoTel 2 – the Simple**	**SoloTel 2 – the Combined**
· Single-channel hand-held transmitter · Single-, group- or central unit · Uni- and bidirectional · Large UP, STOP and DOWN keys · Manual/automatic switch · 3 colours: white, silver, titanium grey · Transmission-secure radio frequency 868 MHz · Ability to disable old Uni-directional mode	· Single-channel hand-held transmitter · Single-, group- or central unit · Uni- and bidirectional · Large UP, STOP and DOWN keys · 3 colours: white, silver, titanium grey · Transmission-secure radio frequency 868 MHz · Ability to disable old Uni-directional mode	· Single-channel hand-held/ wall mounted transmitter · Uni- and bidirectional · 3 colours: white, silver, black · Transmission-secure radio frequency 868 MHz

LumeroTel 2 silver, MonoTel 2 silver and SoloTel 2 silver

Colours

Technical data and dimensions

Type	LumeroTel 2	MonoTel 2	SoloTel 2
Operating Voltage (V DC)	3		
Battery type	2 x LR06 (AA Mignon)		1 x CR 2032
Ingress protection (IP)	20		
Temperature range (°C)	0 to +50		
Radio frequency (MHz)	868		
Dimensions (mm) (hand-held transmitter)	L 150 x W 51 x H 26	L 120 x W 51 x H 26	L 85 x W 85 x H 18
Weight (g) including batteries	140	120	45
Channels	1		
Manual/automatic switch	•	–	
Unidirectional	•		
Bidirectional	•		
Colours	white / silver / titanium grey	white / silver / titanium grey	white / silver / black
Accessories included	Magnetic wall bracket, batteries and mounting material (packed ready to mount in display package)		Magnetic wall bracket, batteries and mounting material (packed ready to mount in display package)

	LumeroTel 2			MonoTel 2			SoloTel 2		
	white	silver	titanium grey	white	silver	titanium grey	white	silver	black
Item Number	28 225.0001	28 226.0001	28 227.0001	28 205.0001	28 206.0001	28 207.0001	28 600.0006	28 640.0006	28 620.0006

Front of view LumeroTel 2

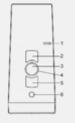1 Operating mode indicator
2 UP button
3 STOP button
4 Status indicator
5 DOWN button
6 Select button

Back of view LumeroTel 2

7 Learn button **P**
8 DIP switch 1 (for experts)
9 Disable old Uni-directional mode

Wall bracket

Front of view MonoTel 2

1 UP button
2 STOP button
3 Status indicator
4 DOWN button

Back of view MonoTel 2

5 Learn button **P**
6 DIP switch 1 (for experts)
7 Disable old Uni-directional mode

Wall bracket

Front of view SoloTel 2

1 Status indicator
2 UP button
3 STOP button
4 DOWN button

Back of view SoloTel 2

5 Learn button **P**

Wall bracket

RevoLine
Type 9 + 11
Venetian blind drives
Speciality drives
Hand-held transmitters
Hardwired controls sensors
Door drives
Door controls
Adapter profiles Lifting capacity tables

AstroTec-868/AstroTec-868 bidi

Timer as comfort wall transmitter

Comfortable 1-channel-timer with astro program
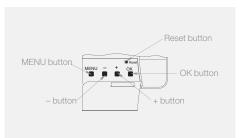
- Integrated timer
- Single-, group- or central unit
- Uni- or bidirectional
- Astro function
- Manual/automatic switch
- ext. Light sensor usable
- Transmission-secure radio frequency 868 MHz

Note:
The AstroTec-868 bidi is a radio wall transmitter for exclusive use with bidirectional receivers (use of the AstroTec-868 bidi with unidirectional transmitters and receivers is not possible – in this use please use the unidirectional AstroTec-868 (item no. 28 320.0001).

Buttons under the cover

MENU button
Reset button
OK button
– button
+ button

Mounting plate

Technical data and dimensions

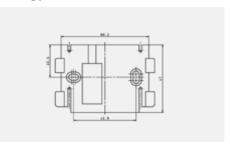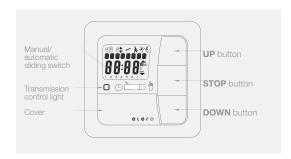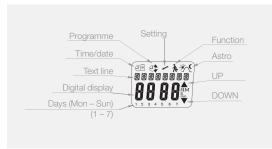| Type	AstroTec-868	AstroTec-868 bidi
Operating Voltage (V DC)	3	
Battery type	2 x LR 03 (AAA)	
Ingress protection (IP)	20	
Temperature range (°C)	0 to +55	
Radio frequency (MHz)	868	
Dimensions (mm)	L 85 x W 85 x T 28	
Type of installation	Wall-mounted	
Unidirectional	•	–
Bidirectional	–	•
Colours	white	
Accessories included	Batteries, wall bracket, 2 wall plugs (Ø 6 mm), 2 screws (Spax 4 x 35)	

	AstroTec-868	AstroTec-868 bidi
Item Number	28 320.0001	28 320.0006

Lumo 2.0 m (P. 236)	
Item Number	28 080.0001

Lumo 10.0 m (P. 236)	
Item Number	28 090.0001

Manual/automatic sliding switch
Transmission control light
Cover
UP button
STOP button
DOWN button

Programme
Time/date
Text line
Digital display
Days (Mon – Sun) (1 – 7)
Setting
Function
Astro
UP
DOWN

Accessories

Lumo Light and twilight sensor
Page 236

RevoLine
Type 9 + 11
Venetian blind drives
Speciality drives
Radio transmitters
Hardwired controls sensors
Door drives
Door controls
Adapter profiles Lifting capacity tables

MemoTec-868

Intelligent comfort wall transmitter

Intelligent comfort transmitter with daily or weekly switching time
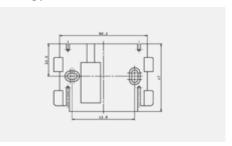
· Fixed daily or weekly switching times programmable
· Large keys
· Unidirectional only
· Manual/automatic switch
· Transmission-secure radio frequency 868 MHz

Buttons under the cover

Reset button

24 h button

24h week Pos▽ Pos△

POS ∇ button

week button

POS △ button

Mounting plate

Technical data and dimensions
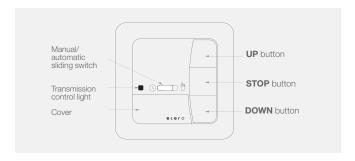
Type	MemoTec-868
Operating Voltage (V DC)	3
Battery type	2 x LR 03 (AAA)
Ingress protection (IP)	20
Temperature range (°C)	0 to +55
Radio frequency (MHz)	868
Dimensions (mm)	L 85 x W 85 x T 28
Type of installation	Wall-mounted
Unidirectional	•
Bidirectional	–
Accessories included	Batteries, Wall bracket, 2 wall plugs (Ø 6 mm), 2 screws (Spax 4 x 36)
Colours	white

	MemoTec-868
Item Number	28 300.0001

Manual/automatic sliding switch

Transmission control light

Cover

UP button

STOP button

DOWN button

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Radio transmitters

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

UniTec-868/UniClic-868

Wall transmitter with manual/automatic switching

UniTec-868	UniClic-868
• 1-channel wall-mounted transmitter • Uni- and bidirectional • Suitable for controlling one or several receivers • Large UP, STOP and DOWN keys • Manual/automatic switch • Transmission-secure radio frequency 868 MHz	• 1-channel wall-mounted transmitter • Uni- and bidirectional • Suitable for controlling one or several receivers • Large UP, STOP and DOWN keys • Manual/automatic switch • Suitable for existing strap coiler boxes • Transmission-secure radio frequency 868 MHz
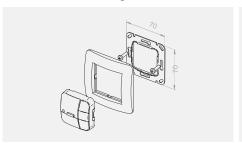
UniTec-868, UniClic-868

Buttons under the cover

Programming buttons P (all-purpose)
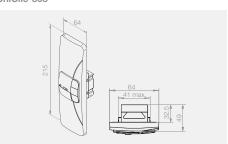
Wall fixture has been changed in the new model

70
70

UniClic-868

64
215
64
41 max
32,5
49

Technical data and dimensions
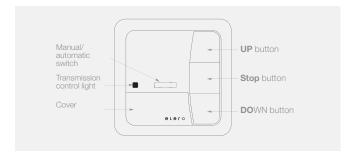
Type	UniTec-868	UniClic-868
Operating Voltage (V DC)	3	
Battery type	CR 2032	
Ingress protection (IP)	20	
Temperature range (°C)	0 to +50	
Radio frequency (MHz)	868	
Dimensions (mm)	L 54 x W 54 x T 22 (without frame) L 81 x W 81 x T 22 (with frame)	L 215 x W 64 x T 49 (with frame)
Type of installation	Wall-mounted	Strap coiler box
Channels	1	
Manual/automatic switch	•	
Unidirectional	•	
Bidirectional	•	
Colours	white	
Accessories included	ProLine frame, battery, wall bracket, 2 wall plugs (Ø 6 mm), 2 screws (4 x 35)	UniClic frame and battery

	UniTec-868	UniClic-868
Item Number	28 330.0007	28 882.0006

Manual/automatic switch
Transmission control light
Cover
UP button
Stop button
DOWN button

Accessories

	Adapter frames Page 224		Flash mount frames Page 225		

RevoLine
Type 9 + 11
Venetian blind drives
Speciality drives
Radio transmitters
Hardwired controls sensors
Door drives
Door controls
Adapter profiles Lifting capacity tables

Invio-868

Flush mount radio transmitter

Flush mount radio transmitter for all elero ProLine radio receivers

- Suitable for the automation of already radio controlled shutters or blinds
- Suitable for all elero ProLine radio receivers
- Possible to use to interface to a higher-level controller
- Can be combined with switches for blinds from all common lines
- Transmission-secure radio frequency 868 MHz
- Uni- and bidirectional

Technical data and dimensions

Type	Invio-868
Operating Voltage (V)	1 ~ 230 – 240
Frequency (Hz)	50 – 60
Ingress protection (IP)	20
Temperature range (°C)	0 to +55
Radio frequency (MHz)	868
Dimensions (mm)	L 52 x W 48 x H 27
Weight (g)	43
Type of installation	Flush mount: Requires at least Ø 58 mm flush mount box, 23 mm deep Surface mount: possible in suitable surface mount box
Unidirectional	•
Bidirectional	•

	Invio-868
Item Number	28 380.0006

Accessories

Interlocked blind/ shutter switches Page 248	Flush mount housings Page 225	

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Radio transmitters

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

VarioTec-868

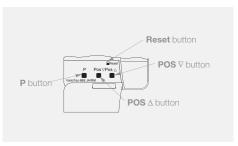## Motor or master/group control unit

The All-in-one solution

- Integrated radio receiver
- Can be used as master, group or motor controller
- Manual/automatic switch
- Unidirectional only
- Large UP, STOP and DOWN keys
- Transmission-secure radio frequency 868 MHz
- Not compatible with the Sensero-868

Buttons under the cover

Reset button

POS ▽ button

P button

POS △ button

Technical data and dimensions
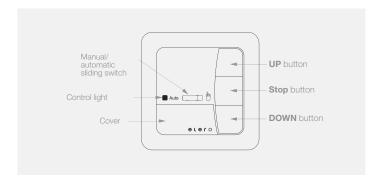
Type	VarioTec-868	
Operating Voltage (V)	1 ~ 230 – 240	
Frequency (Hz)	50 – 60	
Maximum switching current (A) (250V AC at cos φ =1)	5 (resistive load)	
Ingress protection (IP)	20	
Protection class (only after correct installation)	II	
Temperature range (°C)	0 to +55	
Radio frequency (MHz)	868	
Unidirectional	•	
Bidirectional	•	
ProLine frame included	–	•
Colours	white	Set white
Type of installation	Flush mount: requires at least Ø 58 mm flush mount box, 35 mm deep Surface mount: possible in suitable surface mount box Strap coiler box: use UniClic version	

	VarioTec-868	
	white	Set white
Item Number	28 341.0006	28 340.0006

Manual/automatic sliding switch

Control light

Cover

UP button

Stop button

DOWN button

Accessories

	Frame adapters Page 224		Flash mount frames Page 225		Venetian blind switches Page 248
	Flash mount frames Page 25		Radio control units from page 167		

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Radio receivers

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

AeroControl-868

Control unit for awnings and venetian blinds

Surface mount control unit for sun protections systems, with integrated radio receiver
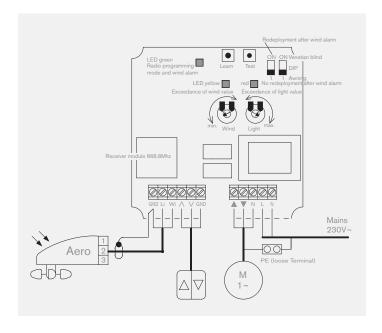
- Radio receiver module 868 MHz
- Robust and simple construction for problem-free retrofitting
- Transmission-secure radio frequency 868 MHz
- Operation is through a optionally connected push button or a hand-held transmitter
- Connection options: Aero, Ventero, Lumero, mains lead, 1 alternating current drive, momentary contact switch

Technical data and dimensions

Type	AeroControl-868
Operating Voltage (V)	1 ~ 230
Frequency (Hz)	50 – 60
Maximum switching current (A) (250V AC at cos φ =1)	5
Ingress protection (IP)	55
Temperature range (°C)	-25 to +55
Radio frequency (MHz)	868
Unidirectional	•
Bidirectional	–
Dimensions (mm)	L 108 x W 108 x H 58
Weight (g)	272
Operating time (min.)	2

	AeroControl-868
Item Number	28 370.0001

Accessories

Interlocked push-buttons Page 248		Lumero Page 236		Aero, Ventero Page 238	
Radio control units from Page 167					

Revio-868 /P /SW

Flush mount radio receiver for roller shutters, roller blinds and venetian blinds drives

Flush mount receiver for uni- and bidirectional radio control units

- Revio-868
  Control of single-phase motors
  Suitable for every ProLine transmitter –
  be it a hand-held device or wall-mount,
  with or without a timer switch
  Venetian blind switch can be connected
  May not be operated with
  sequencing relay

- Revio-868 P:
  Possible to control all ProLine control
  units as well as control units from
  another manufacturer via the
  potential-free outputs

- Revio-868 SW:
  Usable with switchable electrical
  loads with a 230 V AC supply
  voltage (e.g. light)
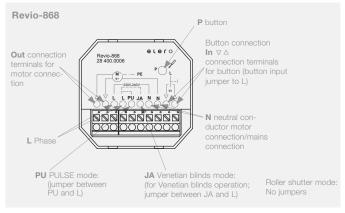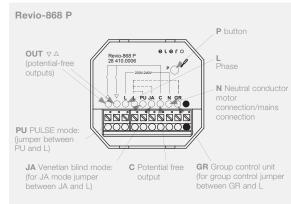 Venetian blind switch can be
  connected
  Potential-free output

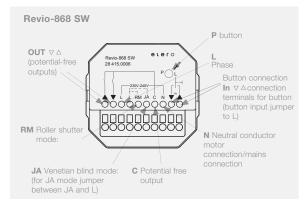
Revio-868, Revio-868 P, Revio-868 SW

Technical data and dimensions

Type	Revio-868	Revio-868 P	Revio-868 SW
Operating Voltage (V)	1 ~ 230 – 240		
Frequency (Hz)	50 – 60		
Maximum switching current (A)	3		
Term duration (Min.)	3 (JA) / 2 (RM)		∞ (SW) / 5 (JA) / 5 (RM)
Ingress protection (IP)	20		
Temperature range (°C)	0 to +55		
Radio frequency (MHz)	868		
Dimensions (mm)	L 50 x W 48 x H 27		
Weight (g)	52		
Type of installation	Flush mount: Requires at least Ø 58 mm flush mount box, 28 mm deep Exposed: in appropriate exposed casing		
Potential-free output	–		•
Unidirectional	•		
Bidirectional	•		
Group controller	–	•	–
Limit switch detection	•		–

	Revio-868	Revio-868 P	Revio-868 SW
Item Number	28 400.0006	28 410.0006	28 415.0006

Revio-868

P button

Out connection terminals for motor connection

Button connection **In** ▽ △ connection terminals for button (button input jumper to L)

N neutral conductor motor connection/mains connection

L Phase

PU PULSE mode: (jumper between PU and L)

JA Venetian blinds mode: (for Venetian blinds operation; jumper between JA and L)

Roller shutter mode: No jumpers

Revio-868 P

OUT ▽ △ (potential-free outputs)

P button

L Phase

N Neutral conductor motor connection/mains connection

PU PULSE mode: (jumper between PU and L)

JA Venetian blind mode: (for JA mode jumper between JA and L)

C Potential free output

GR Group control unit (for group control jumper between GR and L)

Revio-868 SW

OUT ▽ △ (potential-free outputs)

P button

L Phase

Button connection **In** ▽ △ connection terminals for button (button input jumper to L)

RM Roller shutter mode:

N Neutral conductor motor connection/mains connection

JA Venetian blind mode: (for JA mode jumper between JA and L)

C Potential free output

Accessories

	Radio control units from page 167		
	Radio sensors from page 200		

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Radio receivers

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

Unio-868

Radio power socket

Convenient operation of electrical appliances by radio command

· Visual indication of the current switching status
· Manual operation possible
· Simple to integrate into existing ProLine radio systems
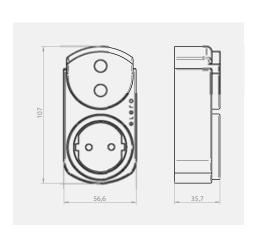· Timers and light sensors enable automated control

Technical data and dimensions

Type	Unio-868
Operating Voltage (V)	1 ~ 198 – 253
Frequency (Hz)	50 – 60
Switching capacity (VA)	2,300
Ingress protection (IP)	20
Temperature range (°C)	0 to +55
Radio frequency (MHz)	868
Dimensions without plug (mm)	L 110 x W 60 x H 40
Weight (g)	160
Unidirectional	•
Bidirectional	•

	Unio-868
Item Number	28 980.0006

Accessories

	Radio control units from page 167		Radio sensors from page 200	

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Radio receivers

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables
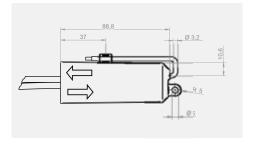
Combio-868 JA /Pulse /RM

Radio receiver for venetian blind drives and roller shutters

Radio receivers for tubular and venetian blind drives

- Combio-868 JA:
  For venetian blind drives
  Tip operation mode
  Intermediate position and a tilting
  position

- Combio-868 JA Pulse:
  For venetian blind drives
  Precise tilting of the slats via
  pulse mode
  Pulse duration adjustable
  Intermediate and tilting position
  adjustable

- Combio-868 RM:
  Suitable for the use with tubular
  motors Receiver goes immediately
  into maintained mode
  Intermediate position
  For roller shutters it is possible
  to programme a ventilation position

Combio-868 JA

Combio-868 RM-K
STAS3/STAK3

Combio-868 RevoLine

All variants of the Combio-868 are suitable for the use with uni- and bidirectional radio systems.

Technical data and dimensions

Type	Combio-868 JA	Combio-868 JA Pulse	Combio-868 RM (for Typ 9-11)	Combio-868 RevoLine	Combio-868 RM/STAK3	Combio-868 RM-K STAS3/STAK3
Operating Voltage (V)	1 ~ 230					
Frequency (Hz)	50					
Max. connected power (W)	450					
Ingress protection (IP)	56					
Temperature range (°C)	-20 to +70					
Radio frequency (MHz)	868					
Power supply cable (m)	0.5 with Hirschmann plug Stas 3		3			0.085 with Hirschmann plug STAS3
Motor side cable (m)	0.25 with Hirschmann coupling Stak3		0.25 with NHK motor plug	0.25 with RevoLine motor plug	0.25 with Hirschmann plug Stak3	0.095 with Hirschmann coupl. STAK3
Dimensions (mm)	L 100 x W 40 x H 15					
Installation space (mm)	L 104 X W 44 x H 19					
Weight (g)	260		306		302	
Standard pulse duration (ms)	–	87.5	–			

	Combio-868 JA	Combio-868 JA Pulse	Combio-868 RM (for Typ 9-11)	Combio-868 RevoLine	Combio-868 RM/STAK3	Combio-868 RM-K STAS3/STAK3
Item Number	28 500.0006	28 505.0006	28 520.0006	28 525.0006	28 580.0006	28 585.0006

Mounting clamp	
Item Number	16 302.3701

Cable bushing for plug guiding	
Item Number	16 101.0101

Cable clip	
Item Number	13 707.5701

Accessories

Radio control units from page 167	Radio sensors from page 200	

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Radio receivers

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

Combio-868 HE /LI /SW

Radio receiver for heating and light systems
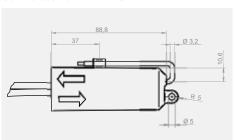
Radio receiver for heating and light systems

- Combio-868 HE:
  Radiant heaters with rated powers
  of up to 2.0 kW can be switched
  on and off
  Possibility to switch the radiant heater
  to 66% of its rated power

- Combio-868 LI/ET and LI/MT:
  Lights can be switched on and off
  by radio remote control
  Possible to dim the lights
  Storing two brightness levels

- Combio-868 SW:
  Switching on and off via radio
  control

Combio-868 HE

Combio-868 LI

Combio-868 LI/ET LI/MT SW

88,8

37

Ø 3,2

10,6

R 5

Ø 5

Technical data and dimensions

Type	Combio-868 HE	Combio-868 LI/ET	Combio-868 LI/MT	Combio-868 SW
Operating Voltage (V)	1 ~ 230			
Frequency (Hz)	50			
Max. connected power (W)	2,000	250		
Ingress protection (IP)	56 (plug connection IP 54)	56		
Temperature range (°C)	-20 to +45	-20 to +65		
Radio frequency (MHz)	868			
Unidirectional		•		
Bidirectional	•	–		
Mains cable (m)	0.49 with Hirschmann plug Stas 3	3		
Motor cable (m)	0.235 with Hirschmann coupling Stak3	0.9		
Dimensions (mm)	L 147 x W 48 x H 29	L 100 x W 40 x H 15		
Installation space (mm)	L 151 x W 52 x H 33	L 104 X W 44 x H 19		
Weight (g)	363	356		

	Combio-868 HE	Combio-868 LI/ET	Combio-868 LI/MT	Combio-868 SW
Item Number	28 594.0006	28 563.0005	28 564.0005	28 566.0005

Connecting cable set for Combio-868 HE (6.5 m connect. cable with plug)				
Item Number	23 285.0901	–		

Application table	Lamp voltage (V)		Combio-868 LI/ET	Combio-868 LI/MT	Combio-868 SW
Incandescent lamps	230V/50 Hz		•	•	•
Fluorescent lamps, energy-saving lamps	230V/50 Hz		–	–	•
Halogen lamps	230V/50 Hz		•	•	•
Low voltage lamps **with electronic transformer**	e.g. 12V		•	–	•
Low voltage lamps **with toroidal or block transformer**	e.g. 12V		–	•	•
Reverse phase control			•	–	–
Phase angle control			–	•	–

Accessories

Radio control units
from page 167

RevoLine
Type 9 + 11
Venetian blind drives
Speciality drives
Radio receivers
Hardwired controls sensors
Door drives
Door controls
Adapter profiles Lifting capacity tables

Sensero-868 AC /Plus

Radio sensors for light, wind and rain

The innovative radio weather sensors

- Sensero-868 AC:
  Weather sensor has light, twilight and wind functions
  Tiltable wallbracket or facade mounting possible

- Sensero-868 AC Plus:
  With additional rain sensor

- 230V/50Hz power supply required
- Only in connection with compatible radio receivers from the range of the elero radio system
- Manual operation of the system is carried out with a hand-held/wall transmitter

Sensero-868 AC

Sensero-868 AC Plus

Mounting options

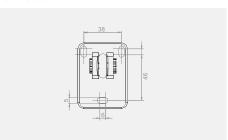|	
	Wall bracket The device can be fastened to the upper side of the roof or to the façade using the tilting wall bracket.
	Pole support As an alternative, mount the device to a pole of 27 mm diameter.
	Pole or corner support Use the corner or pole support to attach the device to the corner of the façade or to the pole.

Wall bracket

38

46

5

6

Technical data and dimensions
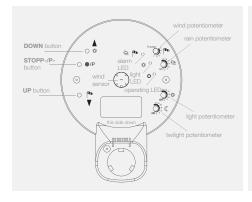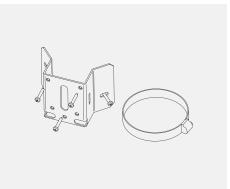
Type	Sensero-868 AC	Sensero-868 AC Plus
Operating Voltage (V)	1 ~ 230	
Frequency (Hz)	50 – 60	
Ingress protection (IP)	44	
Temperature range (°C)	-20 to +60	
Radio frequency (MHz)	868	
Detection angle (°) (Light/twilight sensor)	150	
Dimensions (mm)	L 205 x W 125 x H 105	
Weight (g)	600	610
Wind-, light sensor	•	
Rain sensor	–	•
Unidirectional	•	
Bidirectional	•	

	Sensero-868 AC	Sensero-868 AC Plus
Item Number	28 890.0006	28 900.0006

Pole and corner adapter (Ø 60 – 80 mm)	
Item Number	24 269.0202

Pole and corner adapter

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

Aero-868 /Plus /AC /Ventero-868
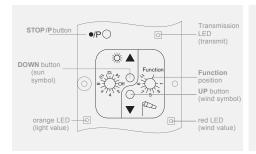
Solar powered light and wind sensor for awnings and venetian blinds
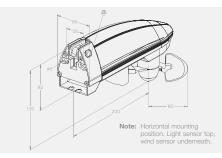
Radio sensors for all situations

- Aero-868: Light- and wind sensor. For venetian blinds
- Aero-868 Plus: Light- and wind sensor. For venetian blinds, awnings and blinds. Integrated solar cells provide the power to run the unit
- Ventero-868: Wind sensor. For venetian blinds with integrated solar cells
- Aero-868 AC: Wind sensor. For venetian blinds, awnings and blinds with power connection
- In combination with radio receivers from the elero ProLine-868 radio system only
- The awning can be operated manually via a manual/wall transmitter
- Transmission-secure radio frequency 868 MHz
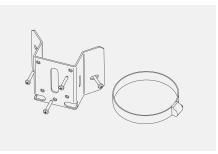
Aero-868 and Ventero-868 are not suitable for applications which require view protection during night time due to the limited power reserves!

Aero-868 Plus /Aero-868

Ventero-868

STOP /P button

DOWN button (sun symbol)

orange LED (light value)

Transmission LED (transmit)

Function position

UP button (wind symbol)

red LED (wind value)

Note: Horizontal mounting position. Light sensor top, wind sensor underneath.

Pole and corner adapter

Technical data and dimensions

Type	Aero-868 Plus	Aero-868	Aero-868 AC	Ventero-868
Power supply	solar		1 ~ 230 V / 50 – 60 Hz	solar
Ingress protection (IP)	43			
Temperature range (°C)	-20 to +60			
Radio frequency (MHz)	868			
Unidirectional	•			
Bidirectional	•			
Detection angle (°) (Light/wind sensor)	150			
Standby (h)	~24	~12	–	~12
Dimensions (mm)	L 280 x W 130 x H 130			
Weight (g)	380		360	

	Aero-868 Plus	Aero-868	Aero-868 AC	Ventero-868
Item Number	28 480.0006	28 440.0006	28 460.0006	28 190.0006

Pole and corner adapter (Ø 60 – 80 mm)	
Item Number	24 269.0202

Accessories

Radio receivers from page 188		

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

Protero-868

Wireless vibration sensor

Vibration sensor

- For retractable arm awnings
- Wind sensitivity is adjustable
- Manual operation of the awning with a hand-held/wall transmitter
- May be programmed for the receiver on the same awning only
- Uni- and bidirectional
- In bidirectional radio mode compatible with:
  - SunTop-868 radio tubular motor from Vers. V25
  - VariEco-868 radio tubular motor from Vers. V20
  - Combio-868 RM external radio receiver from Vers. V79
  - Revio-868 external radio receiver from Vers. V12

Technical data and dimensions
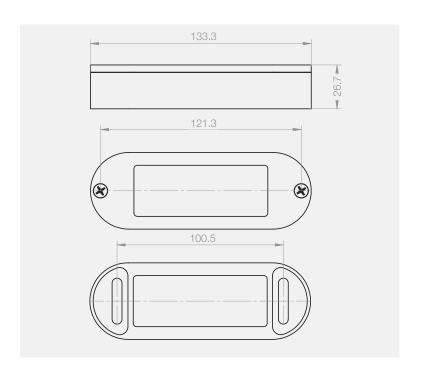
Type	Protero-868	
Operating Voltage (V)	3	
Battery type	2 x LR03 (AAA)	
Ingress protection (IP)	54	
Temperature range (°C)	-20 to +60	
Radio frequency (MHz)	868	
Dimensions (mm)	L 133.3 x W 46.5 x H 26.7	
Colours	traffic white	traffic grey
Weight incl. battery (g)	186	

	Protero-868	
	traffic white	traffic grey
Item Number	28 960.0006	28 961.0006

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

Lumero-868

Solar powered, radio operated light sensor for awnings and venetian blinds

Lightsensor for shading systems
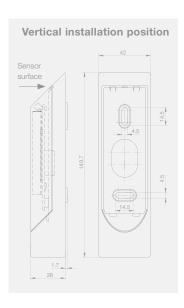
- Wireless sun sensor
- Uni- and bidirectional
- Integrated solar cells
- Manual operation with a hand-held/wall transmitter
- Only in combination with radio receivers from the elero ProLine
  and ProLine 2 radio system
- Bidi operation only with receivers from Version 75 (Combio-868)
  or from Version 21 (RolTop-868, SunTop-868) or with min. date 05/2012

Technical data and dimensions
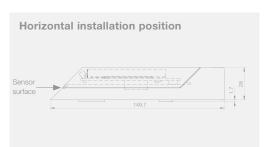
Type	Lumero-868
Power supply	solar
Ingress protection (IP)	54
Temperature range (°C)	-20 to +60
Radio frequency (MHz)	868
Detection angle (°)	190
Dimensions (mm)	L 149.7 x W 42 x H 28
Weight incl. battery (g)	75
Standby	~1
Unidirectional	•
Bidirectional	•

	Lumero-868
Item Number	28 680.0006

Vertical installation position

Sensor surface

42

149.7

14.5

4.5

4.5

14.5

1.7

28

Horizontal installation position

Sensor surface

149.7

1.7

28

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

Lumo-868

Light, twilight and glass breakage sensor

Sensor for light, twilight and glass breakage
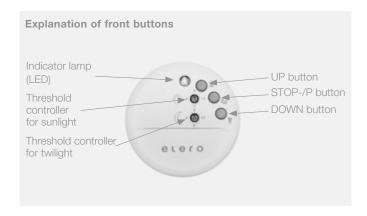
- Wireless light-, twilight and glas breakage sensor
- Sticks to glass using suction cup
- Uni- and bidirectional
- Manual operation with a hand-held/wall transmitter
- UP-, STOP-/P, DOWN keys
- Control according to adjusted threshold values
- Bidi operation only with receivers from Version 75 (Combio-868) or from Version 21 (RolTop-868, SunTop-868) or with min. date 05/2012

Technical data and dimensions

Type	Lumo-868
Operating Voltage (V DC)	3
Battery type	CR 2032
Ingress protection (IP)	20
Temperature range (°C)	0 to +55
Dimensions (mm)	Ø 48 x 15
Weight (g)	22
Radio frequency (MHz)	868
Unidirectional	•
Bidirectional	•
Accessories included	Battery, miniature screw driver for adjusting trigger levels

	Lumo-868
Item Number	28 420.0006

Explanation of front buttons

Indicator lamp (LED)

Threshold controller for sunlight

Threshold controller for twilight

UP button

STOP-/P button

DOWN button

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

Hardwired control units
for roller shutters
and sun protection systems

Control systems should be smart, reliable and offer combination flexibility. In addition the smart devices should be as user friendly as possible.

Whether roller shutters, Venetian blinds or awnings, control via button, automation via sensors or with a smart timer: One of the elero hardwired controllers will surely offer a suitable solution.

AeroTec
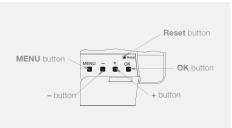
Control unit for sun protection systems

The perfect weather station for each sun protection system

- Pre-programmed ex works with current date and time (CET) settings
- Usable as Master, group or motor control unit
- Operating dependent on sun intensity, wind value and rain
- Can be operated manually at any time
- Can even be programmed if the operating device has been removed or is not powered up via integrated battery
- Possible to integrate into existing switch design of a number of manufacturers

Buttons under the cover

Reset button

MENU button

MENU   –   +   OK

OK button

– button

+ button

Explanation of displays and symbols

Programme

Setting

Function

Time/date

Text line

UP

Digital display

DOWN

Days (Mon. - Sun.)

Technical data and dimensions

Type	AeroTec		
Operating Voltage (V)	1 ~ 230 – 240		
Frequency (Hz)	50 – 60		
Maximum switching current (250V AC at cos φ =1)	5		
Battery type	1 x CR 2032		
Ingress protection (IP)	20		
Protection class (only after correct installation)	II		
Type of installation	Flush mount: Requires at least Ø 58 mm flush mount box, 35 mm deep Surface mount: possible in suitable surface mount box		
Colours	white	ivory	white
ProLine frame included	–		• (set)

	AeroTec		
	white	**ivory**	**Set white**
Item Number	28 141.0001	28 141.0011	28 140.0001

- Manual/automatic sliding switch
- Transmission indicator lamp
- Cover
- UP button
- Stop button
- DOWN button

Accessories

Frame adapters Page 224	Flash mount frames Page 225	Flash mount housings Page 225
Surface mount housings Page 225	Aero, Ventero Page 238	Aquero Page 240
Lumero Page 236		

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired control units

Door drives

Door controls

Adapter profiles Lifting capacity tables

AstroTec/TempoTec/AstroClic
Timer

Timer with and without astro program

- AstroTec:
  Usable as a master, group or motor control unit
  Integrated timer
  Together with the Lumo (p. 236), roller shutters are turned into the perfect sun protection
  Suitable for a large range of switch programmes

- TempoTec:
  Simple timer
  Fixed switching times or closing automatically at sundown

- AstroClic:
  Comfortable timer
  UniClic frame
  Astro program (like AstroTec)
  Connection of the Lumo (p. 236) light and twilight sensor is also possible.

AstroTec/TempoTec, AstroClic

Buttons under the cover

Reset button

MENU button

MENU – + OK Reset

OK button

– button

+ button

AstroClic

64

215

64

41 max.

32.5

49

Technical data and dimensions

Type	AstroTec			TempoTec			AstroClic
Operating Voltage (V)	1 ~ 230 – 240						
Frequency (Hz)	50 – 60						
Maximum switching current (A) (250V AC at cos φ =1)	5						
Ingress protection (IP)	20						
Protection class (only after correct installation)	II						
Temperature range (°C)	0 to +55						
ProLine frame included	–		• (set)	–		• (set)	–
Colours	white	ivory	white	white	ivory	white	white
Type of installation	Flush mount: Requires at least Ø 58 mm flush mount box, 35 mm deep Surface mount: possible in suitable surface mount box						Strap coiler box

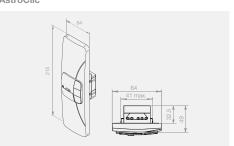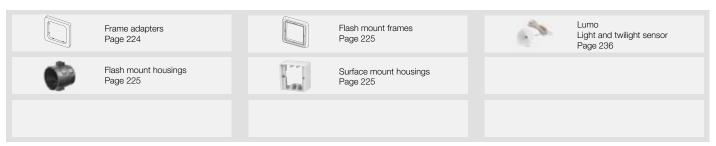|	AstroTec			TempoTec			AstroClic
	white	ivory	Set white	white	ivory	Set white	white
Item Number	28 061.0001	28 061.0011	28 060.0001	28 041.0001	28 041.0011	28 040.0001	28 881.0001

TempoTec operating unit white	
Item Number	28 041.2001

UniClic-frame white (with integrated mains unit)	
Item Number	28 880.0001

Manual/automatic sliding switch
Control light
Cover
UP button
Stop button
DOWN button

Accessories

Frame adapters Page 224	Flash mount frames Page 225	Lumo Light and twilight sensor Page 236
Flash mount housings Page 225	Surface mount housings Page 225	

RevoLine
Type 9 + 11
Venetian blind drives
Speciality drives
Hausautomation, radio controls, radio sensors
Hardwired control units
Door drives
Door controls
Adapter profiles Lifting capacity tables

MemoTec

Intelligent switch

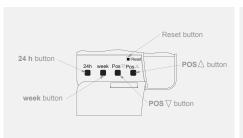### Suitable for large range of switch programmes

- Operates at programmed switching times
- Large keys
- Manual/automatic switch
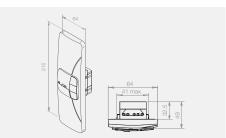- Suitable for a large range of switch programmes

MemoTec, UniClic frame

Buttons under the cover

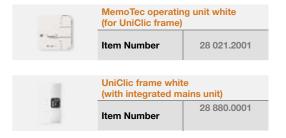
Reset button

24 h button

24h   week   Pos ▽   Pos △

POS △ button

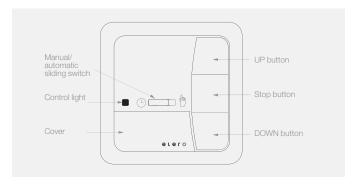**week** button

POS ▽ button

UniClic

64

215

64

41 max.

32.5

49

Technical data and dimensions

Type	MemoTec		
Operating Voltage (V)	1 ~ 230 – 240		
Frequency (Hz)	50 – 60		
Maximum switching current (A) (250V AC at cos φ =1)	5		
Battery type	1 x CR 2032		
Ingress protection (IP)	20		
Protection class (only after correct installation)	II		
Temperature range (°)	0 to +55		
Type of installation	Flush mount: Requires at least Ø 58 mm flush mount box, 35 mm deep Surface mount: possible in suitable surface mount box Strap coiler box: Use UniClic version		
Colours	white	ivory	white
ProLine frame included	–		• (set)

	MemoTec		
	white	**ivory**	**Set white**
Item Number	28 021.0001	28 021.0011	28 020.0001

	MemoTec operating unit white (for UniClic frame)	
	Item Number	**28 021.2001**

	UniClic frame white (with integrated mains unit)	
	Item Number	**28 880.0001**

- Manual/ automatic sliding switch
- Control light
- Cover
- UP button
- Stop button
- DOWN button

Accessories

Frame adapters Page 224		Flash mount frames Page 225	
Flash mount housings Page 225		Surface mount housings Page 225	

RevoLine
Type 9 + 11
Venetian blind drives
Speciality drives
Hausautomation, radio controls, radio sensors
Hardwired control units
Door drives
Door controls
Adapter profiles Lifting capacity tables

VarioTec

Motor or central/group control unit

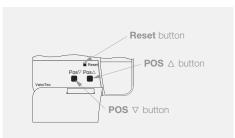### The variable control unit

- It may be used as a central-, group- or as an end device
- Manual/automatic switch
- Large UP, STOP and DOWN keys
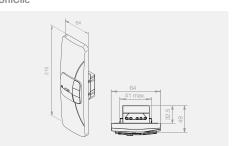- Suitable for a large range of switch programmes

VarioTec, UniClic frame

Buttons under the cover

Reset button
POS △ button
POS ▽ button
Pos▽ Pos△
VarioTec

UniClic

64
215
64
41 max.
32.5
49

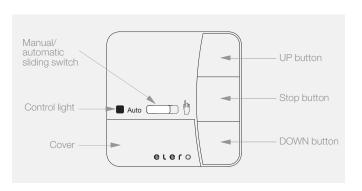## Technical data and dimensions

Type	VarioTec		
Operating Voltage (V)	1 ~ 230 – 240		
Frequency (Hz)	50 – 60		
Maximum switching current (A) (250V AC at cos φ =1)	5		
Ingress protection (IP)	20		
Protection class (only after correct installation)	II		
Temperature range (°)	0 to +55		
Type of installation	Flush mount: Requires at least Ø 58 mm flush mount box, 35 mm deep Surface mount: Possible in suitable surface mount box Strap coiler box: Use UniClic version		
Colours	white	ivory	white
ProLine frame included	–		• (set)

	VarioTec		
	white	ivory	Set white
Item Number	28 121.0001	28 121.0011	28 120.0001

VarioTec operating unit white (for UniClic frame)	
Item Number	28 121.2001

UniClic frame white (with integrated mains unit)	
Item Number	28 880.0001

Manual/automatic sliding switch

Control light

Auto

Cover

UP button

Stop button

DOWN button

Accessories

	Frame adapters Page 224		Flash mount frames Page 225		
	Flash mount housings Page 225		Surface mount housings Page 225		

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired control units

Door drives

Door controls

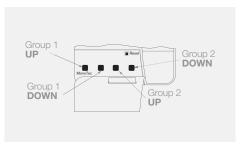Adapter profiles Lifting capacity tables

MonoTec
Comfort control switch

The intelligent switch

- Central- and group pushbutton
- Suitable for roller shutters, venetian blinds and awnings
- Must not be used for connecting a motor directly!
- Suitable for a large range of switch programmes
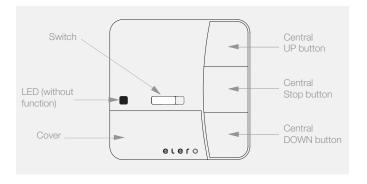
Buttons under the cover

Group 1
UP

Group 2
DOWN

Reset

MonoTec

Group 1
DOWN

Group 2
UP

Technical data and dimensions

Type	MonoTec		
Ingress protection (IP)	20		
Protection class (only after correct installation)	II		
Temperature range (°)	0 to +55		
Type of installation	Flush mount: Requires at least Ø 58 mm flush mount box, 35 mm deep Surface mount: Possible in suitable surface mount box		
Colours	white	ivory	white
ProLine frame included	–		• (set)

	MonoTec		
	white	**ivory**	**Set white**
Item Number	28 101.0001	28 101.0011	28 100.0001

Switch

LED (without function)

Cover

Central UP button

Central Stop button

Central DOWN button

Accessories

	Frame adapters Page 224		Flash mount frames Page 225		
	Flash mount housings Page 225		Surface mount housings Page 225		

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired control units

Door drives

Door controls

Adapter profiles Lifting capacity tables

TimeTec

Day and week time switch

Electronic roller shutter control

- Single control unit
- Weekly time switch
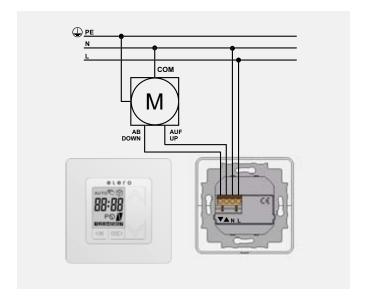- Automatic, manual and random mode
- No adapter frames available

Technical data and dimensions

Type	TimeTec
Operating Voltage (V)	230, ±10%
Frequency (Hz)	50
Outputs	2 NO relays (NOT potential-free)
Maximum switching current (A)	5 (bei cos φ =1)
Running time (s)	150
Temperature range (°)	-5 to +45
Type of installation	Ø 58 mm (flush-mounted)
Switching delay (s)	mind. 0.5
Operation mode	automatic, manual, random
Standby (h)	ca. 24 (by 20 °C)
Memory places	7 x UP / 7 x DOWN
Colours	white

	TimeTec
Item Number	28 670.0001

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired control units

Door drives

Door controls

Adapter profiles Lifting capacity tables

Adapter frames for ProLine control units

14 303.0501
White, suitable for:
Jung-topline

14 303.0601
Ivory, suitable for:
Jung-topline

14 303.0101
White, suitable for:
Jung CD 500
Jung ST 550

14 303.0201
Ivory, suitable for:
Jung CD 500
Jung ST 550

14 303.7601
White, suitable for*:
Jung A 500 and AS 500
AS Universal, and Jung A Plus

14 303.8601
Ivory, suitable for:
Jung A 500 and AS 500

14 303.1101
White, suitable for:
Gira F100 (before 2007)

14 303.1201
Ivory, suitable for:
Gira F100 (before 2007)

14 303.1301
White, suitable for:
Gira Standard, Gira S-Color
Gira F100 (after 2007)

14 303.1401
Ivory, suitable for:
Gira Standard
Gira F100 (after 2007)

14 303.1501
White, suitable for:
Berker Arsys

14 303.1601
Ivory, suitable for:
Berker Arsys

14 303.0701
White, suitable for:
Merten Octocolor

14 303.0801
Ivory, suitable for:
Merten Octocolor

14 303.0901
White, suitable for:
Busch-Jaeger alpha-nea

14 306.7601
Frame adapter
BJ Solo, Future, Davos

14 303.1701
White, suitable for:
Peha Tangenta
Peha Dialog

14 303.7401
White, suitable for:
Legrand Sagane

**No adapter frame is required for
the following switch ranges:**
– Busch-Jaeger Duro 2000 SI
– Busch-Jaeger Reflex SI

With system-inherent variations concerning the fit:
– Merten M1
– Merten Atelier
Slight variations of the colour and
surface structure are possible.

* also suitable for:
– Gira Standard 55
– Gira E2
– Gira Event
– Gira Esprit
– Berker S1 and B1
– Merten M-Plan
– Merten M-Smart
– Merten M

Adapter frames for ProLine control units

Adapter frames for Jung CD 500

Item Number	1-gang	2-gang	3-gang	white	ivory
14 803.3901	•			•	
14 803.4001	•				•
14 803.4201		•		•	
14 803.4301		•			•
14 803.4501			•	•	
14 803.4601			•		•

ProLine frame

Item Number	1-gang	2-gang	3-gang	white	ivory
18 100.0001	•			•	

Surface and flush mount housings

Item Number	Type
24 752.0002	Surface mount housings white, Jung LS 990 can be combined with Jung-topline adapter frame (14 303.0501)
24 752.1301	Base for surface mount housing, white incl. 4 cable feedtroughs for more depth
24 843.0104	Surface mount housing ivory, Jung LS 990 can be combined with Jung-topline adapter frame (14 303.0601)
24 843.1301	Base for surface mount housing, ivory incl. 4 cable feedtroughs for more depth
13 701.5101	Flush mount housing, deep version
14 305.7401	Round flush mount housing for hollow walls and panel mount with attachment clamps. Suitable for all flush mount ProLine controllers
14 305.7501	Round flush mount housing for hollow walls and panel mount with attachment clamps. Deep version for more wiring space. Suitable for all flush mount ProLine controllers
13 702.6201	Flush mount box for 1-way and 2-way controller, dimensions: 100 x 100 mm
13 302.5601	Surface mount housing (85 x 85 x 37 mm) for sequencing relay or central control unit for 2 single-phase motor
13 702.6301	Surface mount box for 1-way and 2-way controller (can fit up to 4) and other controllers, dimensions: 104 x 120 x 40 mm

24 752.0002
24 843.0104

13 701.5101

14 305.7401
14 305.7501

13 702.6201

13 302.5601

13 702.6301

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Adapter frames and housings

Door drives

Door controls

Adapter profiles Lifting capacity tables

1:1 scale

14 303.0501 alpine white
14 303.0601 white

14 303.0101 alpine white
14 303.0201 white

14 303.7601 alpine white
14 303.8601 white

14 303.1101 alpine white
14 303.1201 white

14 303.1301 alpine white
14 303.1401 white

1:1 scale

14 303.1501 alpine white
14 303.1601 white

14 303.0701 alpine white
14 303.0801 white

14 303.0901 alpine white

14 303.7401 alpine white

14 303.1701 alpine white

14 306.7601 alpine white

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Adapter frames and housings

Door drives

Door controls

Adapter profiles
Lifting capacity tables

Project control units

for roller shutters and sun protection systems

Something that is increasingly becoming popular in single-family homes has long since been standard in large buildings: electrical roller shutters and automated venetian blinds and awnings that move automatically in line with commands from timer switches or weather sensors. But in large buildings it is generally much more difficult to design the best-possible control network. If the entire building technology is to be networked as well as the sun protection, the first idea is usually that of installing a BUS network. For planners, however, it may be worth taking a look at the range of classical sun protection control units – for modern building controls can cover a wide range of control requirements.

Objecta

ProLine comfort control

Control center for large-scale objects

- Master control unit for 4 facades
- For controlling ProLine group or motor control devices
- Sensor data analysing via 4 integrated AeroTec operating devices
- Modular concept:
  - Every facade/floor can be controlled individually
  - 4 channels (1 channel per façade)
  - Individual light and wind detection per sub-group
  - Expandable up to 64 sub-groups per channel/facade
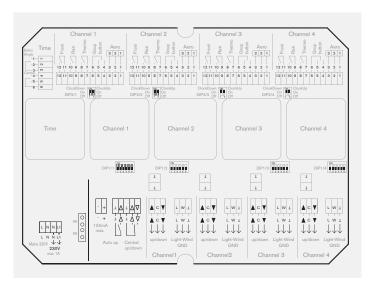 - Can be used and extended with ProLine controllers

Technical data and dimensions

Type	Objecta
Operating Voltage (V)	1 ~ 230
Frequency (Hz)	50
Maximum switching current (A)	4 x max. 5 (potential free)
Ingress protection (IP)	54
Power consumption (VA)	max. 10
Temperature range (°)	0 to +55
Power supply for external devices	24V DC max. 150 mA
Incl. operating units	–
Dimensions (mm)	H 230 x W 300 x T 90

	Objecta
Item Number	28 700.0001

Operating unit AstroTec white (functional description on page 208)	
Item Number	28 061.2001

Operating unit AeroTec white (functional description on page 206)	
Item Number	28 141.2001

Accessories

	Aero, Ventero Page 238		Aquero Page 240		
	Lumero Page 236				

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Project control units

Door drives

Door controls

Adapter profiles Lifting capacity tables

Sensor technology
for hardwired controls

The roller shutters, venetian blinds or awnings can be easily automated with sensors: They register the actual weather conditions, of sunlight, rain, temperature and wind velocity, and then activate the drive accordingly.

This enables you to protect yourself from damp and frost, avoid damage from storm gusts and offers patios, conservatory or homes the ideal sun protection.

Lumo/Lumero/Thermostat
Sensors for light, twilight and temperature

Sensors for light, twilight and temperature

- Lumo:
  Light sensor
  Recommended for use with:
  AstroTec, AstroTec REG and
  AstroTec-868 controller

- Lumero:
  Light and twilight sensor
  for the outdoor installation
  Recommended for use with:
  AeroTec and AeroTec REG controller

- Room thermostat:
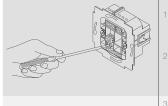 for external connection

Lumo, Lumero, Room thermostat

Technical data and dimensions

Type	Lumo		Lumero	Thermostat
Ingress protection (IP)	20		43	20
Temperature range (°)	0 to +55		-25 to +60	0 to +55
Dimensions (mm)	Ø 46 x 22		L 82 x W 27 x H 38	L 75 x W 75 x H 25
Weight (g)	17		58	76
Cable length (m)	2	10	–	–

	Lumo 2.0 m	Lumo 10.0 m	Lumero	Thermostat
Item Number	28 080.0001	28 090.0001	28 180.0001	13 803.4801

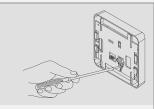### Connecting the Lumo to the AstroTec

1. Cut the wire to the desired length. Bare approx. 5 mm of the wire.
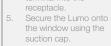2. Remove the connecting terminal using a screwdriver.

3. Insert the wire into the terminal.
4. Insert the connecting terminal into the receptacle.
5. Secure the Lumo onto the window using the suction cap.
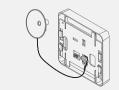
Fitting the Lumo into the AstroTec-868

1. Cut the wire to the desired length. Bare approx. 5 mm of the wire.
2. Remove the connecting terminal using a screwdriver.

3. Insert the wire into the terminal.
4. Insert the connecting terminal into the receptacle.
5. Secure the Lumo onto the window using the suction cap.

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Sensor technology

Door drives

Door controls

Adapter profiles Lifting capacity tables
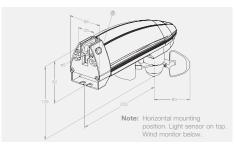
Aero/Ventero

Solar powered light and wind sensors

Comfortable living inside and outside

- Aero:
  Light- and wind sensor
  Continuous measurement of wind
  and light values
  In combination with AeroTec (p. 212)
  and AeroControl-868 (p. 190)

- Ventero:
  Wind sensor
  In combination with AeroTec (p. 212)
  and AeroControl-868 (p. 190)
  Continuous measurement of wind
  values

Aero, Ventero

Pole and corner adapter

Note: Horizontal mounting
position. Light sensor on top.
Wind monitor below.

Technical data and dimensions

Type	Aero	Ventero
Ingress protection (IP)	43	
Temperature range (°C)	-25 to +60	
Pole support	Ø 60 – 80 mm (optional accessory)	
Detection angle (°)	150	
Dimensions (mm)	L 280 x W 130 x H 130	
Weight (g)	286	
Wind sensor		•
Light sensor	•	–
Colours	white	

	Aero	Ventero
Item Number	28 160.0001	28 170.0001

Pole and corner adapter (Ø 60 – 80 mm)	
Item Number	24 269.0202

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Sensor technology

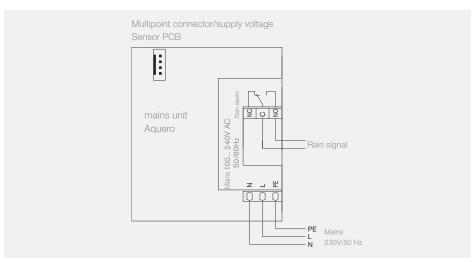Door drives

Door controls

Adapter profiles
Lifting capacity tables

Aquero
Rain sensor

Our elegant sensor with claim

- In combination with AeroTec (p. 212)
- Precipitation measuring at intervals via the sensor surfaces
- Response threshold preset
- Potential-free changeover contact

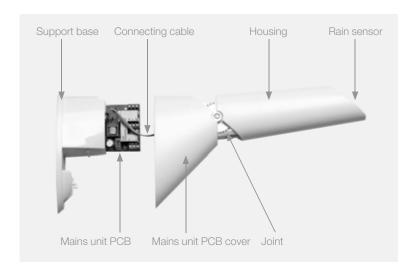Multipoint connector/supply voltage
Sensor PCB

mains unit
Aquero

Mains 100...240V AC 50/60Hz

Rain alarm

NC   C   NO

Rain signal

N   L   PE

PE
L   Mains
N   230V/50 Hz

Technical data and dimensions

Type	Aquero
Operating Voltage (V)	1 ~ 110 – 230
Supply voltage (Hz)	50 – 60
Ingress protection (IP)	44
Temperature range (°)	-20 to +50
Output	1 potential-free changeover contact 5 A/250V
Dimensions (mm)	L 300 x W 170 x H 65
Weight (g)	408

	Aquero
Item Number	**28 690.0001**

Support base   Connecting cable   Housing   Rain sensor

Mains unit PCB   Mains unit PCB cover   Joint

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Sensor technology

Door drives

Door controls

Adapter profiles
Lifting capacity tables
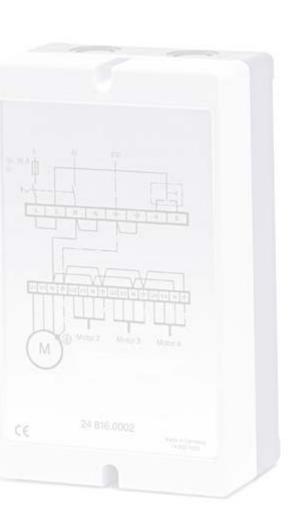
Relay and DC controllers

The common control of several drives via one switching point is required for some applications. This is simple to implement with suitable relays or controllers.

Central control units/Multi-point control relay
Relay controllers

Central control units to switch alternating current motors

- Operation of multiple drives with one control unit using an interlocked venetian blinds push button or switch,
- Automatic switching with ProLine control units and individual operation with interlocked venetian blinds push button

Follow the overall phase load when designing the complete system. The number of sequencing relays that can be connected in series depends on the current consumption of the motors employed. The back-up fuse may not exceed a maximum value of 10 A.

2-way motor control unit, 4-way motor control unit, multi point motor control unit and central control unit for 1 single-phase motor without permanent phase
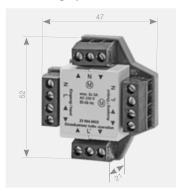
Technical data and dimensions

Type	Central control unit (sequencing relay) for 1 or 2 single-phase motors	Central control unit for up to 4 single-phase motors without individual control.	Multi-point control relay	Central control unit for 1 single-phase motor without permanent phase
Operating Voltage (V)	1 ~ 230 – 240			
Frequency (Hz)	50 – 60			
Current consumption (mA)	10 in relay mode	on request		10 in relay mode
Switching current	max. 2 x 3 A, 250V AC, motor load max. 2 x 690VA, for 230V motors only with limit switches	max. 4 x 3 A, 250VAC	3 A, 690VA	8 A AC1, 4 A cos phi 0.6
Ingress protection (IP)	20			
Temperature range (°C)	0 to +60	-10 to +40	-40 to +40	
Fuse protection (A)	max. 10	10 slow-blow	–	
Dimensions (mm)	L 47 x W 52 x H 21	L 115 x W 65 x H 190	L 45 x W 47 x H 23	L 49 x W 53 x H 22
Max. number of drives	2	4	1	1
Weight (g)	57	863	54	59

	Central control unit (sequencing relay) for 1 or 2 single-phase motors	Central control unit for up to 4 single-phase motors without individual control.	Multi-point control relay	Central control unit for 1 single-phase motor without permanent phase
Item Number	23 994.0002	24 816.0002	23 845.0001	23 995.0201

Central control unit (sequencing relay) for 1 or 2 single-phase motors

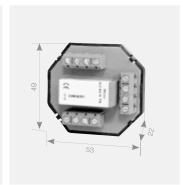Central control unit for up to 4 single-phase motors without individual control

Multi-point control relay

Central control unit for 1 single-phase motor without permanent phase

Accessories

Switches and push-buttons Page 248	Switches and push-buttons Page 269	Surface mount housings for sequencing relay Page 225
Switches and push-buttons Page 269		

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Relais and DC controllers

Door drives

Door controls

Adapter profiles Lifting capacity tables

Control Unit DC
DC controller

Control of 24V DC drives

- The Control Unit DC can be controlled by the following controllers
  – AstroTec (p. 214)
  – AeroTec (p. 212)
  – VarioTec-868 (p. 188)
  – VarioTec (p. 218)
  – Revio-868 P (p. 192)
  These devices have a potential-free relay output
- You can also connect an interlocked push button (p. 248) instead of a ProLine device for controlling the Control Unit DC
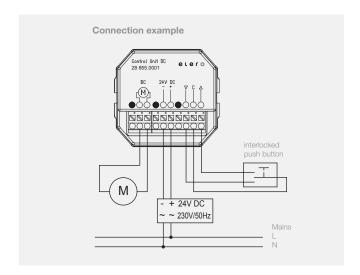
Technical data and dimensions

Type	Control Unit DC
Operating Voltage (V)	24V DC, ± 10%
Control voltage	24V DC, ± 10%
Current consumption (mA)	25
Switching capacity (A)	3
Ingress protection (IP)	20
Temperature range (°C)	0 to +55
Dimensions (mm)	L 52 x W 49 x H 29
Type of installation	Suitable for flush mount housings Ø 60 mm or suitable boxes

	Control Unit DC
Item Number	28 855.0001

Connection example

Accessories

ProLine control units from page 211		

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Relais and DC controllers

Door drives

Door controls

Adapter profiles Lifting capacity tables

Switches and push-buttons

Venetian blind switch
flush mount

Rotary switch

Interlocked switches

Venetian blind switch
surface mount

Interlocked switches/push buttons for single-phase motors, flush mount

Item Number	Type
24 051.0001	Venetian blind switch Jung CD 500 alpine white
24 222.0001	Interlocked venetian blind push-button Jung CD 500 alpine white

Rotary switch 2-pole

Item Number	Type
13 701.3401	Flash mount for connecting 2 motors (can be used as switch or push-button)

Interlocked switches/push buttons for single-phase motors

Item Number	Type
23 250.0001	Cord push-button alpine white
23 251.0001	Cord switch alpine white
23 252.0001	Universal push-button alpine white
23 253.0001	Universal switch alpine white

Switch/push-button, water protected, surface mount

Item Number	Type
14 701.1701	Venetian blind switch surface mount, water-protected
14 701.2101	Venetian blind push-button surface mount, water-protected

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Switches and push-buttons

Door drives

Door controls

Adapter profiles
Lifting capacity tables

Type 15
– the tubular door drive!

Type 15 is the ideal drive for heavy roller shutters, small rolling gates and roller grilles. These are characterized by the well-balanced torques, 120 Nm, 150 Nm, 180 Nm, 230 Nm and 300 Nm, each with 230V/50 Hz.
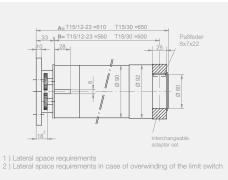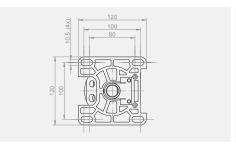
Type 15 W

Tubular drive for doors

Tubular drive Type 15 W

- Changeable couplings (adapters) for tubes of Ø 98 x 2.0 to 168 x 4.0 mm
  or SW 114 (octagonal)
- Long service life
- Optimum gearing guarantees quiet operations
- The fixing plates of the Type 15 W… drives must be installed at right angles to the
  fixing area. It is imperative to use the wall bracket pocket item no. 23 100.0001 in
  case of unevenness

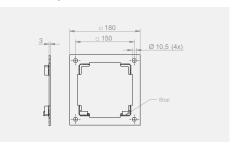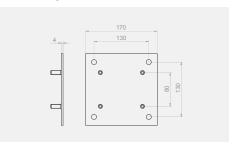A= T15/12-23 =610   T15/30 =650
B= T15/12-23 =560   T15/30 =600
Paßfeder 8x7x22

1) Lateral space requirements
2) Lateral space requirements in case of overwinding of the limit switch

Head girth

Wall bracket pocket

Wall bracket plate

Technical data and dimensions

Type	Type 15/12 W	Type 15/15 W	Type 15/18 W	Type 15/23 W	Type 15/30 W
Max. torque (Nm)	120	150	180	230	300
Speed (rpm)			12		
Operating Voltage (V)			1 ~ 230		
Rated frequency (Hz)			50		
Current (A)	3.4	3.5	3.6	3.9	5.5
Power (W)	700	740	780	810	1.250
Shaft Ø (mm)			98		
Ingress protection (IP)			44		
Max. limit switch range in Revolutions of the shaft			36		
Operating mode (KB in min.)		6		4	
Door cycles per hour ⬈ h⁻¹ *			6		
Length A (mm)		610			650
Length B (mm)		560			600
Weight (kg)		11.4			13
Temperature range (°C)			-20 to +60		
Conformity			CE ⊟		
Connecting cable (m)			3.0		

* One door cycle is: 5 revolutions OPEN – 30 sec. pause – CLOSE

	Type 15/12 W	Type 15/15 W	Type 15/18 W	Type 15/23 W	Type 15/30 W
Item Number	32 301.0002	32 281.0002	32 321.0002	32 361.0002	32 381.0002

Wall bracket pocket	
Item Number	23 100.0001

Wall bracket plate	
Item Number	13 301.4901

Accessories

Drive adapter sets Page 256	Wall bracket pocket Page 256	Wall bracket plate Page 256
Door controls from page 264	Angle bracket 13 305.9201 Page 256	Pedestal bearings Page 258

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Type 15 W

Door controls

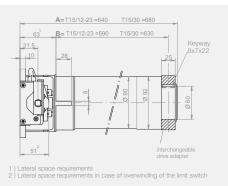Adapter profiles Lifting capacity tables

Type 15 W NMA

Tubular drives for doors with NMA

Tubular drive Type 15 W NMA

- Manual gearbox in the event of a power failure
- Changeable couplings (adapters) for tubes of Ø 98 x 2.0 to 168 x 4.0 mm or SW 114 (octagonal)
- Long service life
- Optimum gearing guarantees quiet operations
- The fixing plates of the Type 15 W… drives must be installed at right angles to the fixing area. It is imperative to use the wall bracket pocket item no. 23 100.0001 in case of unevenness
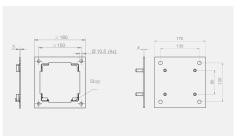

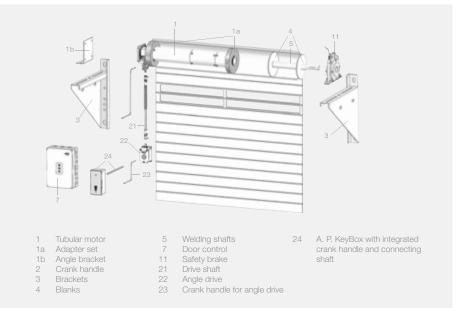**A**= T15/12-23 =640   T15/30 =680
B= T15/12-23 =590   T15/30 =630

Keyway 8x7x22

interchangeable drive adapter

1) Lateral space requirements
2) Lateral space requirements in case of overwinding of the limit switch

Head girth

Connection handle

Mounting example

Wall bracket pocket

Stop

Wall bracket plate

1	Tubular motor	5	Welding shafts	24	A. P. KeyBox with integrated
1a	Adapter set	7	Door control		crank handle and connecting
1b	Angle bracket	11	Safety brake		shaft
2	Crank handle	21	Drive shaft		
3	Brackets	22	Angle drive		
4	Blanks	23	Crank handle for angle drive		

Technical data and dimensions

Type	Type 15/12 W NMA	Type 15/15 W NMA	Type 15/18 W NMA	Type 15/23 W NMA	Type 15/30 W NMA
Max. torque (Nm)	120	150	180	230	300
Speed (rpm)			12		
Operating Voltage (V)			1 ~ 230		
Rated frequency (Hz)			50		
Current (A)	3.4	3.5	3.6	3.9	5.5
Power (W)	700	740	780	810	1,250
Shaft Ø (mm)			98		
Ingress protection (IP)			44		
Max. limit switch range in Revolutions of the shaft			36		
Operating mode (KB in min.)		6		5	
Door cycles per hour ⥮ h⁻¹ *			6		
Length A (mm)		640		680	
Length B (mm)		590		630	
Weight (kg)		12.1		13.8	
Temperature range (°C)			-20 to +60		
Conformity			CE		
Connecting cable (m)			3.0		

* One door cycle is: 5 revolutions OPEN – 30 sec. pause – CLOSE

	Type 15/12 W NMA	Type 15/15 W NMA	Type 15/18 W NMA	Type 15/23 W NMA	Type 15/30 W NMA
Item Number	32 312.0002	32 292.0002	32 332.0002	32 362.0002	32 382.0002

Wall bracket pocket	
Item Number	23 100.0001

Wall bracket plate	
Item Number	13 301.4901

Accessories

Drive adapter sets Page 256	Wall bracket pocket Page 256	Pedestal bearings Page 258
Door controls from page 264	Angle bracket Page 256	Crank handle Page 257
Wall bracket plate Page 256		

Drive adapter sets for Type 15 W ...

Profiles of the drive adapter sets in 1:1 scale on page 305.

Item Number	Type	Round tubes	M8 thread
13 103.5701	Ø 98 x 2.0 mm	•	•
23 584.0001	Ø 102 x 2.0 mm	•	•
23 475.0001	Ø 108 x 3.6 mm	•	
23 527.0001	Ø 108 x 3.6 mm drilled	•	•
23 494.0002	Ø 133 x 2.0 mm	•	•
23 325.0001	Ø 133 x 2.5 mm	•	•
23 495.0002	Ø 133 x 4.0 mm	•	
23 495.0101	Ø 133 x 4.0 mm	•	•
23 309.0001	Ø 159 x 2.6 mm	•	•
23 310.0001	Ø 159 x 4.5 mm	•	•
23 027.0001	Ø 168.3 x 4.5 mm and Ø 168 x 4.0 mm	•	•
23 456.0001	SW 114 mm octagonal (side-to-side dimension 125 mm)		
23 311.0001	Ø 120 mm, Alukon	•	•

Installation accessories

23 100.0001

13 301.4901

13 305.9201

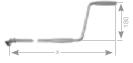| Item Number	Type
23 100.0001	Wall bracket pocket (with axial securing)
13 301.4901	Angle bracket
13 305.9201	Mounting bracket

Manual override accessories

Crank handles

24 049.0001
Crank handle with ball
joint x = 0.55 m

24 050.0001
Crank handle with ball
joint x = 1.35 m

12 300.0901
Crank handle with awning
hook x = 1.4 m

23 398.9801
Awning eyelet
for Type 15/… NMA

Base set NMA

23 199.9501
Consisting of:
Angle drive/drive shaft/
crank handle

23 081.0001
Drive shaft extendable
from 1.7 to 3.0 m

23 030.0001
Angle drive

13 305.8001
Crank handle for angle
drive Length 0.2 m

A.P. KeyBox

23 080.0001
With integrated crank handle,
key switch (dead man safety)
and 0.50 m long connecting
shaft 10 mm hexagonal. To
operate NMA motors from out-
side manually and electrically.
Requires NMA Base kit
23 199.9501

Cables and accessories

23 243.0002

Installation-/connecting cables and accessories

Item Number	Type
23 243.0002	Installation cable

Safety brakes

Delivery time on request

**with electrical switch off,
IP 65, TÜV-Süd certified**

□ 161
Ø 13
55
□ 200

24 541.0002
TA 1/2 RD with bracket for wall mounting Ø 30 mm
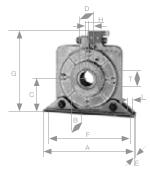max. torque : 332 Nm
max. operating speed: 22 rpm
test number: 02165

Pedestal bearing

24 552.0003
TA 1/2 RD Ø 30 mm
max. torque: 332 Nm
max. operating speed: 22 rpm
test number: 02165

Choice of safety brake

	24 541.0002 TA 1/2 RD	24 552.0003 TA 1/2 RD
Doorsize h x b mm	3,000 x 3,000	
108.0 x 4.0	475	
133.0 x 4.0	450	
168.3 x 4.5	370	
193.7 x 5.4	325	
219.1 x 5.9	282	
244.5 x 5.9	246	
298.5 x 8.0	190	
323.9 x 8.0		
355.6 x 8.0		

These data relate to the complete door weight in kg.

Item number	A	B	C	D^{H7}	E	F	G	H^{J9}	I	T	kg
24 552.0003	210	44	80	30	38	180	185	8	12	33.3	4.5

Delivery time on request

Welding shafts
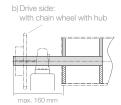
Item number	Shaft Ø (mm)	Key (mm)	Length (mm)
24 045.0001	30	8 x 7 x 50	500
	a) Safety brake TA ½		
	b) Chain wheel with hub		

a) Bearing side:
   with safety brake

b) Drive side:
   with chain wheel with hub

max. 160 mm

Welding shaft bearing side

Item number	Shaft Ø (mm)	Length (mm)
14 110.8001	30	500
	c) For pedestal/flange bearing	
	d) Full chain wheel	

c) Bearing side:

d) Drive side: with full chain wheel

max. 160 mm

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Type 15 W / NMA

Door controls

Adapter profiles Lifting capacity tables

Blanks

Note: 2 blanks required per welding shaft.

For welding shafts and counterpart supports

Item number	For shaft Ø (mm)	Blanks Ø (mm)	Thickness (mm)	Hole Ø (mm)
13 117.6001	98 x 2.0; 100 x 3.0; 101.6 x 3.6	93	4	30
14 110.3301	108.0 x 3.6	99	4	30
14 110.3201	133.0 x 4.0	124	6	30
13 117.6101	133.0 x 2.0	128.5	6	30
13 117.6201	159.0 x 4.5	149	6	30
13 119.7601	159.0 x 2.6	153	6	30
14 110.5401	168.3 x 4.5	158.5	6	30
14 110.6001	168.3 x 3.0	161.5	6	30
14 110.9501	193.7 x 5.4	181.5	6	30
14 110.9601	193.7 x 3.0	187	6	30

Brackets
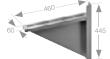
Wallbrackets

460
60
445

max. load: 3,000 N

24 399.0001
With 2 hex bolts M 12 x 50
and nuts for drives DFM/WFM
100 – 350 safety brake TA 1/2 RD

460
60
445

max. load: 3,000 N

24 313.0001
With 2 hex bolts M 12 x 50 and
nuts for drives DFM/WFM
100 – 350 safety brake TA 1/2 RD

Screw-on angle

65
50
Ø 16
130
65
350
20

24 553.0101
For pedestal bearing,
safety brake TA 1/2 RD
and TA 2/3 RD
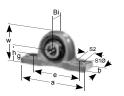
Pedestal bearings and flange bearings

Pedestal bearings

13 300.7701
With set screw fastening
Ø 30 mm

13 300.3701
Ø 20 mm

Plate bearings

13 300.3101
Ø 20 mm
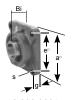
Flange bearings

13 300.3201
Ø 30 mm

Item number	h	a	e	b	S1Ø	S2	g	w	Bi	kg
13 300.7701	42.9	165	121	48	17	21	15	84	38.1	1.3

Item number	a	e	g	SØ	Bi	kg
13 300.3201	108	83	13	12	38.1	1.1

Screws for pedestal bearings and safety brakes

14 300.5501
T-head screw M 10 x 40 with M 10 nut for fixing
the pedestal bearing to the screw-on angle
(2 pieces required)

14 300.5601
T-head screw M 12 x 50 with M 12 nut
(for pedestal bearings Ø 30 and Ø 40 and
safety brake TA 1/2 RD / TA 2/3 RD on
the screw-on angle, item no. 24 553.0101)

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Type 15 W / NMA

Door controls

Adapter profiles
Lifting capacity tables

A push of a button is sufficient to operate motorised rolling garage doors, roller grilles or smaller industrial doors reliably and quietly. The DoorControl and SafeControl door controllers have been specially developed for single-phase shaft tube drives with mechanical limit stop and conform to the European standards EN 12453 and EN 12445 "Safety in use of power operated doors". Of course, both controllers are CE compliant and certified by the TÜV.

Door controls
– safety first!

Control selection table

Safe- und DoorControl

Control selection	SafeControl — for rolling doors and roller grilles	DoorControl — for rolling doors — without radio	DoorControl — for rolling doors — 868.8 MHz	DoorControl — for roller grilles *2) — without radio
***1) Recommendations for doors shown below**				
Doors for commercial and industrial use etc. Pulse control with or without sight of door (maintained mode) Automatic control with traffic lights		•		
Rolling doors or roller grilles for underground garages etc. Automatic control/two-way traffic with red/green traffic light	•	–		
Features				
Menu-guided parameterisation in German, French and English	•	–		
Two-way traffic control system with request store	•	–		
Automatic closing with traffic light function		•		
Test of the opto-electronic door-edge security system for 8.2 KΩ resistance evaluation		•		
*2) Test of the ingress protection system integrated	•	–		
Automatic drives switch-off at the end positions		•		
Connection of 'CLOSE' light barrier		•		
Connection of pre-end switch		•		
Garage light connection		•	•	–
Integrated radio receiver FM 868.8 MHz Integrated radio receiver FM 868.8 MHz	–		•	–
Slot for radio module item. no.: 17 700.4301 / 24 147.0001	•		–	•
Connection of timer possible		•		

*1) Be sure to follow EN 12453! § 5.5. Table 1 – Follow the „Minimum protection levels for security of main door-edge"! Maintained mode only if this represents no risk of injury or damage. Connection of protection systems is essential.

*2) Ingress protection with testing for roller grille can be connected. Item no.: 17 700.5401 light barriers test unit for 2 one-way light barriers item no.: 24 961.0001 or light barrier requirements: Voltage 24V DC; power consumption </= 1.5VA. Standby delay $\leqq$ 250 ms

DoorControl

Convenient door controllers
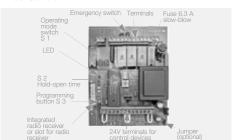
for tubular drives Type 9-15 W NHK and NMA with mechanical limit stop 1 x 230V/50 Hz

- Door edge detection
- Dynamic motor runtime monitoring
- Output for interior light or warning light
- Automatic operation of door systems with 230V single-phase motors

- DoorControl RG: Suitable for roller grilles

DoorControl with hand-held radio transmitter

DoorControl

Operating mode switch S 1 — Emergency switch — Terminals — Fuse 6.3 A slow-blow

LED

S 2 Hold-open time

Programming button S 3

Integrated radio receiver or slot for radio receiver — 24V terminals for control devices — Jumper (optional)

180

130

Technical data and dimensions

Type	DoorControl for rolling doors		DoorControl for roller grilles
Supply voltage (V)	230		
Rated frequency (Hz)	50 – 60		
Power consumption (W)	max. 6		
On-site fuse protection (A)	max. 10		
Switched current (A)	max. 6		
Switching capacity (VA)	max. 1,300		
Ingress protection (IP)	54		
Internal fuse (A)	6.3 slow-blow		
Temperature range (°C)	-10 to +50		
Dimensions (mm)	L 180 x W 130 x H 60		
Weight (g)	1,000		
TÜV-certified	EN 12453 PL c/Cat. 2 as per EN ISO 13849-1:2008 for the safe function of the door-edge security system		
Radio version	•		–
Incl. radio receiver	•		–
Incl. hand-held transmitter	•		–
Incl. slot for radio module	–		•
Accessories included	The controller is delivered with a 1.5 m long connecting cable with an earthed plug and a membrane keypad (Up-Stop-Down) built into the housing cover.		

	DoorControl for rolling doors			DoorControl for roller grilles
Item Number	24 180.0001	24 180.0301	24 180.0101	24 080.0101

Radio receiver in housing 2-command 868.8 MHz for follow-on control		
Item Number	–	17 700.4201

Radio module FM 868.8 MHz, 2-command, pluggable		
Item Number	–	17 700.4301

Rod antenna FM 868 MHz, 50 Ohm (external antenna for 17 700.4201 and 17 700.4301)	
Item Number	17 700.4901

Hand-held radio transmitter 4-command, 868 MHz, range up to 50 m, extremely safe "SOMLOQ" Rolling code system	
Item Number	17 700.3701

Wall mount holder for hand-held radio transmitter 17 700.3701	
Item Number	17 700.3901

Accessories

Door-edge security system
Page 268

Light barrier test unit
Page 268

One way "Twin-Safe" light barrier
Page 268

Reflection light barrier
Page 268

Surface mount push-button
Page 269

Surface mount key switch
Page 269

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

SafeControl
Convenient door controllers for tubular drives

All-rounder for rolling doors and roller grilles

for tubular drives Type 9-15 W NHK and NMA with mechanical limit stop 1 x 230 V/50 Hz

- Automatic closing with one- or two-way traffic control
- Direct connection of the entanglement protection
- Automatic operation of rolling doors and roller grilles with AC tubular motors

Channel 2 · Teach button · Channel 1 · Option: FM 868 MHz radio module No. 17 700.4301

Internal EMERGENCY STOP connection · Control cable with plug · Circuit board

215 · 85 · 190

Technical data and dimensions

Type	SafeControl
Supply voltage (V)	230
Rated frequency (Hz)	50
Power consumption (W)	max. 13
On-site fuse protection (A)	max. 10
Switched current AC1 (A)	max. 6
Switching capacity (VA)	max. 1,300
Ingress protection (IP)	54
Internal fuse (A)	6.3 slow blow
Temperature range (°C)	-10 to +55
Dimensions (mm)	L 215 x W 190 x H 85
Weight (g)	1,400
TÜV certified	DIN EN 12453

	SafeControl
Item Number	24 178.0101

Radio receiver in housing, 2-command 868 MHz for follow-on control	
Item Number	17 700.4201

Radio module FM 868 MHz, 2-command, pluggable	
Item Number	17 700.4301

Rod antenna FM 868 MHz, 50 Ohm (external antenna for 17 700.4201 and 17 700.4301)	
Item Number	17 700.4901

Hand-held radio transmitter 4-command, 868 MHz, range up to 50 m, „SOMLOQ" Rolling code system	
Item Number	17 700.3701

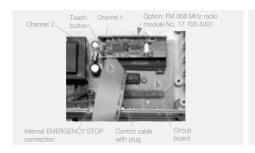| Wall mount holder for hand-held radio transmitter 17 700.3701	
Item Number	17 700.3901

Accessories

Door-edge security system Seite 269	Reflection light barrier Page 268
Surface mount push-button Page 269	

One way "Twin-Safe" light barrier Page 268

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles Lifting capacity tables

Radio remote control 868.8 MHz

Radio receiver in housing 2-command 868.8 MHz

17 700.4201
For follow-on control power supply, 230V AC op. modes: Push-button mode switch mode, on/off timer mode switch-off delay up to 250 sec.

Radio module FM 868.8 MHz, 2-command

17 700.4301
Can be plugged into BoxCard plus and premium DoorControl 24 180.0101, usable in SafeControl, MasterControl, SoftControl

Rod antenna FM 868.8 MHz

17 700.4901
External antenna for radio receiver 17 700.4201 and for the radio module 17 700.4301
50 Ohm – coaxial cable (10.0 m)

Hand-held radio transmitter 4-command 868.8 MHz

17 700.3701
Range up to 50 m, depending on environment, safe "SOMLOQ" Rolling code system, 3V Battery, CR 2032
Size: 87 x 24 x 16 mm

Wall mount holder

17 700.3901
For hand-held radio transmitter 17 700.3701

Safety for crushing, shearing and ingress points

Door-edge security system (Opto-electronic safety edge)
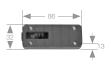
14 705.9002
Evaluation device for mains voltage 230V/50 Hz, switching contact, potential-free
(in plastic housing IP 66)

24 275.0001
Transmitter, cable length 1.0 m receiver, cable length 10.5 m range from 1.0 – 8.0 m max, Ø 11 mm

Connection box (on blind)

23 173.0002
With strain relief for spiral cable integrated plug on/screw type terminals incl. screwdriver

14 705.2801
Spiral cable 3 x 0.5 mm² extendable from 0.9 – 3.0 m

14 706.2601
Safety edge rubber hollow double profile with seal flap

14 701.0602
Aluminium C-rail
for safety edge rubber
1.5 m length

23 255.0002
Stoppers (pair)

Reflection light barrier with polarizer IP 67

24 960.0201
Accessories: Reflector, angle bracket, screw connections and fixing screws for the support brackets. Range: 0.50 ... 15.0 m; Rated voltage: 15 – 45V DC or 24V AC; Ready to operate: < 100 ms; Rated current: max. 30 mA/24V

Note: The reflectors for the reflection light barriers can fog up outdoors due to weather effects, frost etc, thus drastically reducing their range. Recommendation: One-way light barriers are suitable outdoors even in tough conditions

One way light barrier IP 67

24 961.0001
Set: Transmitter, receiver and fastening part. Plastic. Range: max. 50.0 m; rated voltage: 20–230V AC/DC Exit: relais

Weather protection hoods

14 306.8501
for reflection light barriers or one-way light barriers

14 306.8601
for reflectors

One way "Twin-Safe" light barrier

24 960.0301
Accessories: Angle bracket

Range: 1.0 – 20.0 m, Rated voltage: 10 – 30V DC Opening angle: < 4°, Rated current: 70 mA

Light barrier test unit for pull up protection

17 700.5401
Functions only with BoxCard Premium for 2 one-way light barriers item no. 24 961.0002 or 24 960.0301

Timers and traffic lights

Ø 150 / 147

14 700.3801
Lamp red

Ø 150 / 147

14 700.3901
Lamp green

Switches and push-buttons

Venetian blind switches/push-buttons for single-phase motors, surface mount

14 701.1701
Switch surface mount, water-protected

14 701.2101
Push-button surface mount, water-protected

Surface mount key switch IP 54

14 701.3301
with latched position on both sides and cover lock

14 701.3601
momentary on one side latching on the other, and cover lock

14 701.3801
momentary on one side single pole, and cover lock

Flush mount key switch IP 54

14 701.3901
with latched position on both sides and cover lock

14 701.4201
momentary on both sides and cover lock

14 701.4401
momentary on one side and latching on the other, cover lock

Surface mount push-button

14 701.2401
Single pole, Push-button

Push-button surface mount, water-protected IP 54

14 701.2501
UP-DOWN

14 701.2901
UP-STOP-DOWN

Surface mount combined key and pushbutton switch IP55

14 701.4501
Key switch UP-DOWN, momentary on both sides and pushbutton STOP

Flush mount combined key and pushbutton switch, IP 55

14 701.4801
Key switch UP-DOWN, momentary on both sides and push-button STOP

14 703.1301
Pull switch (momentary contact), surface mount, aluminium housing

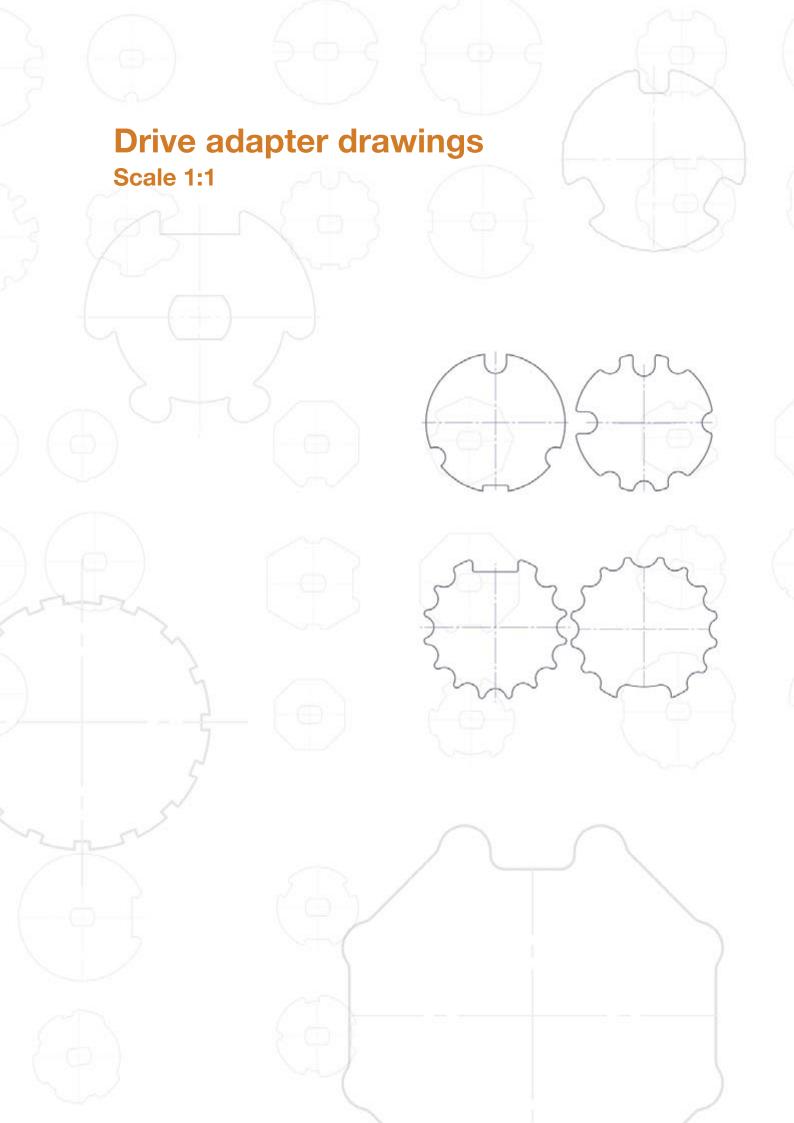**14 703.2601**
Lockable main switch, surface mount, 4-pole 400V 4 kW

14 703.2701
Emergency shut down button, surface mount

RevoLine
Type 9 + 11
Venetian blind drives
Speciality drives
Hausautomation, radio controls, radio sensors
Hardwired controls sensors
Door drives
Door controls
Adapter profiles Lifting capacity tables

Drive adapter drawings
Scale 1:1

RevoLine S

Notch tubes

22 017.0001
Ø 52 x 1.5

22 004.0001
Ø 63 x 1.0

Round tubes

22 011.0001
Ø 40 x 1.0
Ø 42 x 2.0

22 009.0001
Ø 40 x 1.5

13 119.0601
Ø 38 x 1.0
Ø 40 x 2.0

22 015.0001
Ø 42 x 1.0

22 071.0001
Ø 50 x 1.5

22 016.0001
Ø 50 x 2.0

22 010.0001
octagonal
a/f 40, Selve

23 097.0001
Ø 42
Silent Gliss

22 013.0001
Ø 42 x 2.0
Bautex

22 018.0001
Ø 43.5 | Ø 44
TechnoLight | Garattoni
Acmeda

22 014.0001
Ø 45
Zurflüh-Feller

22 068.0001
Ø 47
Alu. (TR)

22 002.0001
Ø 48
GHC, AXE

22 006.0001
a/f 50 x 0.8
Selve

22 007.0001
Ø 50 x 1.5
Siral

22 012.0001
Ø 50
ALU

22 008.0001
54 x 0.5
Zurflüh-Feller

22 005.0001
octagonal a/f 60
Selve, Döhner

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles

RevoLine M

Notch tubes

1:1 scale / Dimensions in millimeters

23 041.0001
Ø 57
Ates, MHZ

23 055.0001
Ø 60
AXE, Griesser
Hüppe

23 042.0001
Ø 62 x 0.6
DEPRAT, F2000

23 031.0001
Ø 63 x 1.0

elero

23 018.0001
Ø 70, round notch
IMBAC, Ahlquist

23 020.0001
Ø 70
flat notch, Welser

23 065.0001
Ø 70

23 054.0001
Ø 71 x 1.5

23 015.0001 | 23 026.0001
Ø 78 x 1.0/1.25 | Ø 78 x 1.0
for flat- and round notch | Rau

23 040.0001
Ø 78 x 1.0, Döhner

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles

RevoLine M

Notch tubes

23 017.0001
Ø 85 x 1.0

23 048.0001
Ø 85 x 1.2
IMBAC-New
Griesser

23 053.0001
Ø 90, Le-Profil
Ø 89, DEPRAT

23 058.0001
Ø 90.5 x 1.25
MHZ

13 116.2901
Ø 50 x 1.5

13 116.9901
Ø 50 x 1.5
Siral

23 044.0001
Ø 60 x 1.5
Ø 62 x 2.0

23 045.0001
Ø 63 x 1.5

23 046.0001
Ø 70 x 1.5

23 093.0001
Ø 83 x 1.5

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio
controls, radio sensors

Hardwired controls
sensors

Door drives

Door controls

Adapter profiles

RevoLine M
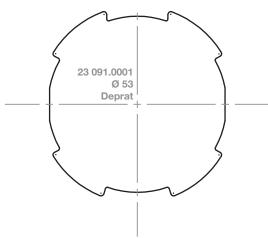### Round tubes

1:1 scale / Dimensions in millimeters

23 051.0001
Ø 102 x 1.5
Ø 102 x 2.0

23 052.0001
Ø 102 x 3.5
Ø 98 x 2.0

13 117.8501
Ø 50
Soprofen

23 012.0001
octagonal shaft,
a/f 50, Selve

23 091.0001
Ø 53
Deprat

13 116.1001
Ø 54
Zurflüh-Feller

23 039.0001
Ø 55
elero

23 050.0001
Ø 58
Alu, Termo Perco

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio
controls, radio sensors

Hardwired controls
sensors

Door drives

Door controls

Adapter profiles

RevoLine M
Profile tubes

23 036.0001
octagonal shaft,
a/f 60, IMBAC

23 379.0001
octagonal shaft,
a/f 60, Selve,
Döhner, Eckermann

23 056.0001
octagonal shaft,
a/f 60, Bonfante

23 047.0001
hexagonal,
60 x 0.7,
Butzbach
Mäule

23 049.0001
Ø 60, Alu-Plast
Ø 63 x 1.5

23 043.0001
Ø 62
Le Profil, Krülland

23 380.0001
Ø 64
Zurflüh-Feller

23 032.0001
Ø 65
IMBAC, Eckermann
Metallpress

23 033.0001
Ø 65
Hoos

23 057.0001
Ø 67 x 1.5
MHZ

23 011.0001
octagonal shaft, a/f 70
Selve, Döhner,
Eckermann

23 034.0001
Ø 76 x 1.2
Kittelberger, Wiral

23 059.0001
hexagonal, x 75
Butzbach, Mäule

RevoLine
Type 9 + 11
Venetian blind drives
Speciality drives
Hausautomation, radio controls, radio sensors
Hardwired controls sensors
Door drives
Door controls
Adapter profiles

RevoLine M

Profile tubes

23 090.0001
pentagonal, 78
Meimo

23 382.0001
Ø 80
Zurflüh-Feller

elero

23 383.0101
Ø 78 x 1.0, flat notch
78 x 1.0, MHZ

23 070.0001
Ø 78 x 1.25, round notch | Ø 78 x 1.0, round notch
Röchling | Döhner

23 378.0001
Ø 85 x 1.0

23 061.0001
Ø 90, Le-Profil
Ø 89, Deprat

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles

RevoLine L

Round tubes

23 064.0001
23 064.0101
Ø 63 x 1.5
with 4 x M6 thread

23 067.0001
23 067.0101
Ø 70 x 1.5
with 4 x M6 thread

23 066.0001
23 066.0101
Ø 70 x 2.0
with 4 x M6 thread

23 063.0001
23 063.0101
Ø 98 x 2.0; 100 x 3.0; 101.6 x 3.6
with 4 x M6 thread

1:1 scale / Dimensions in millimeters

23 079.0001
23 079.0101
Ø 133 x 2.5 / Ø 133 x 2.0
with 4 x M6 thread
plus Type 15 limit switch crown

RevoLine L
Profile tubes

23 068.0001
Ø 67 x 1.5
MHZ

23 060.0001
octagonal a/f 70
a/f 70 x 1.25
Selve, Eckermann, Roma

23 071.0001
hexagonal, 75
Butzbach, Mäule

23 075.0001
Ø 76 x 1.2
Kittelberger, Wiral

1:1 scale / Dimensions in millimeters

23 074.0001
Ø 80
Zurflüh-Feller

23 073.0001
23 073.0101
Ø 83 x 1.5
with 4 x M6 thread

23 077.0001
Ø 85 x 1.2
Imbac, Griesser

23 092.0001
hexagonal, 85
Butzbach

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio
controls, radio sensors

Hardwired controls
sensors

Door drives

Door controls

Adapter profiles

RevoLine L

Profile tubes

23 078.0001
octagonal, a/f 102 x 2.0
Alulux

23 072.0001
octagonal, a/f 114
Heroal

23 069.0001
octagonal a/f 102 x 2.5
Roma

23 076.0001
Ø 128 x 1.5
Alukon

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles

Type 9 NHK
Notch tubes

23 643.0001
Ø 85
Griesser

23 510.0001
Ø 62

23 538.0001
Ø 78 x 1.0
Döhner

23 559.0001
Ø 70

elero

23 560.0001
Ø 74

23 681.0001
Ø 85 x 1.0

23 563.0001
Ø 70
Imbac, Ahlquist

23 600.0001
Ø 78 x 1.0
MHZ

Type 9 NHK
Notch tubes

1:1 scale / Dimensions in millimeters

23 583.0001
Ø 63

23 540.0001 | Crown
Ø 78 | 23 mm wide

23 700.0001
Ø 70
Welser

23 641.0001
Ø 70
Griesser

1:1 scale / Dimensions in millimeters

Type 9 NHK
Notch tubes

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles

23 547.0001
Ø 70

23 581.0002
Ø 70, 70 x 0.7
decagonal
Perma

23 580.0001
Ø 78 x 1.0
Ø 78 x 1.25

Type 9 NHK
Round tubes

13 105.5701
Ø 50 x 1.5

13 110.7401
50 x 1.5
Siral

23 578.0002
Ø 60 x 2.0
Ø 60 x 1.5

23 585.0001
Ø 63 x 1.5

23 546.0001
Ø 70 x 1.5

23 372.0001
Ø 102 x 1.5 mm

23 373.0001
Ø 102 x 3.5 mm

elero

23 555.0001
a/f 60, octagonal
Döhner, Selve
Eckermann
Heinzmann

23 557.0001
a/f 60
octagonal
Martin

23 548.0001
a/f 75, hexagonal
Butzbach, Mäule

23 529.0001
a/f 70 x 1.0, octagonal
Selve, Eckermann

23 873.0001
a/f 50 x 1.5
octagonal, Rau

23 874.0001
Ø 60 x 1.0
Alu-Plastik

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles

Type 9 NHK

Profile tubes

1:1 scale / Dimensions in millimeters

23 554.0001
a/f 60, hexagonal
Butzbach, Mäule

23 534.0001
a/f 60, octagonal
Imbac

23 522.0001
Ø 65
Hoos

23 586.0001
Ø 55 round

23 622.0001
Ø 83 x 1.5

23 562.0001
Ø 62
Le Profil, Krülland

23 528.0001
Ø 80
Zurflüh-Feller

23 906.0001
Ø 60, octagonal
Bonfante

23 336.0001
Ø 76 x 1.2
Kittelberger

23 320.0001
Ø 71 x 1.5

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles

Type 9 NHK

Profile tubes

1:1 scale / Dimensions in millimeters

23 301.0001
a/f 50, octagonal
Selve

23 542.0001
Ø 85 LeProfil
Ø 89 Deprat

23 558.0001
Ø 64
Zurflüh-Feller

23 556.0001
Ø 65
Imbac
Metallpress
Eckermann

23 870.0002
Ø 57
Ates Alu

23 834.0001
Ø 58
Thermo Perco

22 024.0001
Ø 78 x 1.0
MHZ

22 038.0001
Ø 85 x 1.0

22 023.0001
Ø 90 Le-Profil,
Ø 89 Deprat

Type 11 /NHK

Round tubes

22 025.0001
Ø 63 x 1.5
with 4 x M6 thread

22 026.0001
Ø 70 x 1.5
with 4 x M6 thread

22 027.0001
Ø 70 x 2.0
with 4 x M6 thread

22 022.0001
Ø 98 x 2.0
with 4 x M6 thread

22 021.0001
Ø 102 x 2.0
with 4 x M6 thread

22 031.0001
Ø 83 x 1.5
with 4 x M6 thread

22 036.0001
Ø 133 x 2.5; Ø 133 x 2.0
with 4 x M6 thread

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio
controls, radio sensors

Hardwired controls
sensors

Door drives

Door controls

Adapter profiles

Type 11 /NHK

Profile tubes

13 117.0901
Ø 67 x 1.5
MHZ

22 020.0001
octagonal, a/f 70
Selve, Eckermann, Roma

22 029.0001
hexagonal, 75
Butzbach, Mäule

22 033.0001
Ø 76 x 1.2
Kittelberger, Wiral

22 032.0001
ZF 80
Zurflüh-Feller

22 035.0001
octagonal, a/f 102 x 2.0
Alulux

22 037.0001
hexagonal, 85
Butzbach

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles

Type 11 /NHK

Profile tubes

1:1 scale / Dimensions in millimeters

22 028.0001
octagonal, a/f 102 x 2.5
Roma
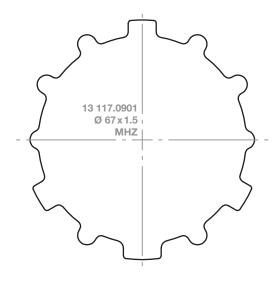
22 034.0001
Ø 128 x 1.5
Alukon

22 030.0001
octagonal, a/f 114
Heroal

elero

13 103.5701
Ø 98 x 2.0
drilled with thread M8

23 584.0001
Ø 102 x 2,0
drilled with thread M8

23 475.0001
Ø 108 x 3.6
not drilled

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles

Type 15 W ...
Round tubes

23 494.0002
Ø 133 x 2.0
drilled with thread M8

23 325.0001
Ø 133 x 2.5
drilled with thread M8

23 495.0002
Ø 133 x 4.0
not drilled

23 495.0101
Ø 133 x 4.0
drilled with thread M8

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles

Type 15 W ...
Round tubes

23 309.0001
Ø 159 x 2.6
drilled with thread M8

23 310.0001
Ø 159 x 4.5
drilled with thread M8

23 311.0001
Ø 120, Alukon
drilled with thread M8

23 027.0001
Ø 168.3 x 4.5 and Ø 168 x 4.0
drilled with 4 x M6 thread

23 456.0001
SW 114, octagonal
(side-to-side dimension 125)

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Adapter profiles

Lifting capacity tables

Selection table for the determination of the suitable drive on the basis of the rated torque

Determine the necessary rated torque of the drive from the system data.

Roller shutter

RolTop / RolTop-868
RolSmart-K / VariEco / Type 11

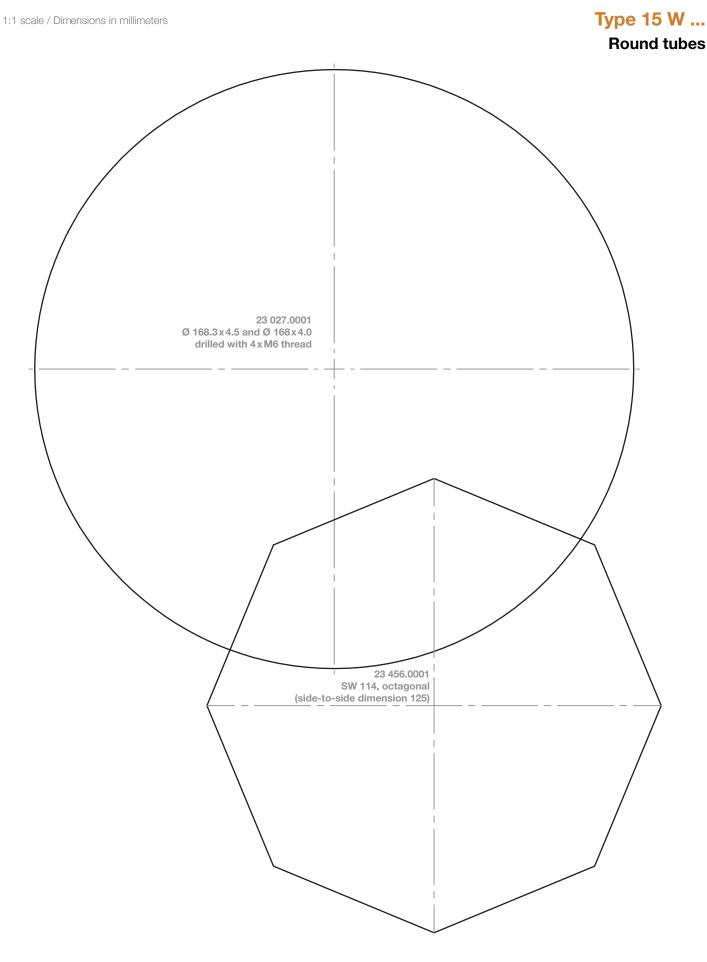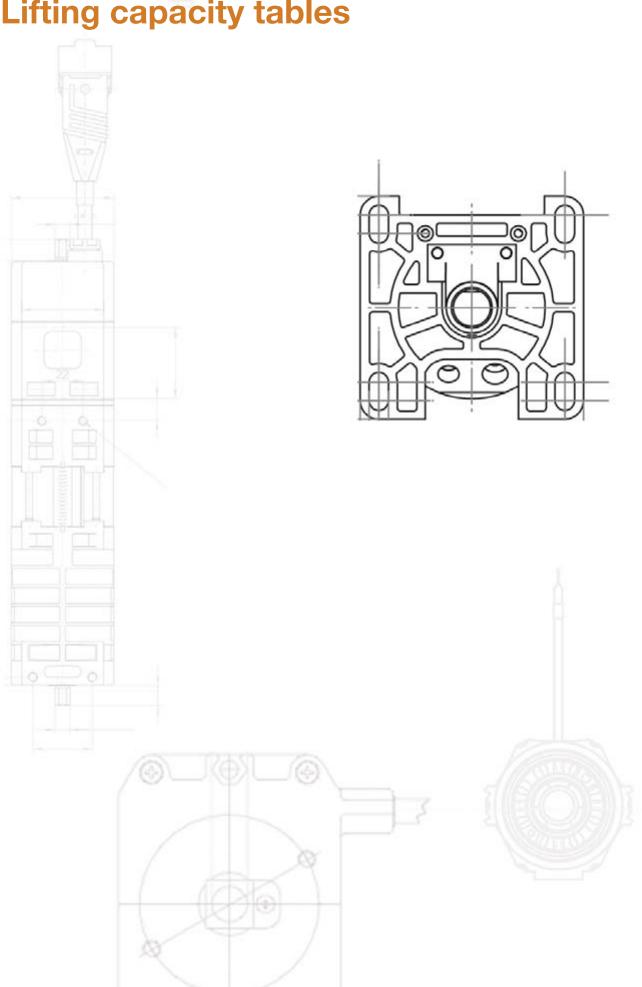| Torque	Octagonal shaft	Roller shutter height/Bar thickness (mm)					
		1.5 m			2.5 m		
		8	11	14	8	11	14
(Nm)	(mm)	(kg)					
5	40	14	-	-	12	-	-
8	40	22	-	-	19	-	-
12	40	33	-	-	28	-	-
6	60	-	13	12	-	11	10
7	60	-	16	14	-	13	12
10	60	-	22	20	-	19	17
12	60	-	25	24	-	22	20
20	60	-	43	40	-	37	34
30	60	-	65	60	-	56	51
40	60	-	86	80	-	75	68
50	60	-	108	100	-	93	85
40	70	-	-	74	-	-	64
60	70	-	-	110	-		97
80	70	-	-	147	-	-	129
100	70	-	-	184	-	-	161
120	70	-	-	221	-	-	193

The specified values include a 15% allowance for friction

Note:
Please make sure that you check and comply with the maximum winding shaft load. These details are guideline values only and are given without any liability! You can obtain the data from the respective manufacturer. For the determination of an individual drive we recommend our drive calculation program. You can download the software at www.elero.com or simply order the program by phoning +49 (0)7025/13-367

Textile sun protection

SunTop / SunTop-868
VariEco / Type 11 /-CSM-E

Torque	Round-/Notch-shaft Ø			Lifting capacity at the shaft		
(Nm)	(mm)			(kg)		
1.5	42			7		
3	42			14		
5	42			24		
8	42			38		
12	42			57		
6	50	78	85	24	15	14
7	50	78	85	28	18	16
10	50	78	85	40	26	24
12	50	78	85	48	30	28
20	50	78	85	80	51	47
30	–	78	85	–	77	71
40	–	78	85	–	103	94
50	–	78	85	–	128	118
40	–	78	85	–	103	94
60	–	78	85	–	154	141
80	–	78	85	–	205	188
100	–	78	85	–	256	235
120	–	78	85	–	308	282

Example of the determination of the rated torque and drive for a roller shutter:

1. Determine the roller shutter data. (e.g.)
– Winding shaft 60 octagonal
– Rod thickness 14 mm
– Curtain data: h 2.20 m x w 2.00 m = 4.4 m²
– Curtain weight: 5 kg/m² x 4.4 m² = 22 kg

2. Determine the rated torque of the drive
A rated torque of 20 Nm is determined from the table column 2.50 m/14 mm.

3. Select the drive
Now select a suitable drive type with the determined torque. e.g. RolTop M20-868

These details are guideline values only and are given without any liability!

Roller shutter

Type 9 NHK / Type 11 NHK

Torque	Octago-nal shaft	Roller shutter height/Bar thickness (mm)			
		1.5 m		2.5 m	
		11	14	11	14
(Nm)	(mm)	(kg)			
8	60	17	16	15	14
13	60	28	26	24	22
20	60	43	40	37	34
25	60	54	50	47	42
30	60	65	60	56	51
40	60	86	80	75	68
50	60	108	100	93	85
40	70	–	74	–	64
60	70	–	110	–	97
80	70	–	147	–	129
100	70	–	184	–	161
120	70	–	221	–	193

The specified values include a 15% allowance for friction.

Note:
Please make sure that you check and comply with the maximum winding shaft load. You can obtain the data from the respective manufacturer. For the determination of an individual drive we recommend our drive calculation program. You can download the software at www.elero.com or simply order the program by phoning +49 (0)7025/13-367.

The drives for markisolettes, conservatory shading, fabric tension system etc. will need to be determined separately for your system.

Notes:
The permissible load of the winding shaft must not be exceeded!
These details are guideline values only and are given without any liability!

Awnings and blinds

Type 9 NHK

Torque	Speed	Shaft Ø	Lifting capacity at the shaft
(Nm)	(Upm)	(mm)	(kg)
8	14	50	32
		78	21
13	14	50	52
		78	33
20	14	78	51
		85	47
25	14	78	64
		85	59
30	14	78	77
		85	71
40	14	78	103
		85	94
50	14	78	128
		85	118

Type 11 /-CSM-E /-NHK

Torque	Speed	Shaft Ø	Lifting capacity at the shaft
(Nm)	(Upm)	(mm)	(kg)
40	15	78	103
		85	94
60	12	78	154
		85	141
80	15	78	205
		85	188
100	12	78	256
		85	235
120	12	78	308
		85	282

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Lifting capacity tables

Selection table for the determination of the suitable drive on the basis of the rated torque

Determine the necessary rated torque of the drive from the system data.

Roller shutter and door

Type 15 / Type 15 NMA

Torque	Shaft-Ø	Nominal bar thickness	Max. blind weight with a rolling door/ roller shutter height up to		
			2.5	3.5	5.0
(Nm)	(mm)		(kg)		
120	133	19	138	130	117
	133	23	131	123	109
	168	19	115	113	117
	168	23	114	108	101
150	133	19	172	162	146
	133	23	164	154	137
	168	19	144	141	133
	168	23	142	135	126
180	133	19	206	194	176
	133	23	196	185	164
	168	19	172	169	160
	168	23	170	162	151
230	133	19	264	248	224
	133	23	251	236	203
	168	19	220	216	204
	168	23	218	207	193
300	133	19	344	324	293
	133	23	327	308	273
	168	19	287	281	266
	168	23	284	270	252

This values are in relation to the complete roller shutter/rolling door in kg. 15% friction is taken into account. The friction can be greater due to additional door seals, wind loads etc. Carry out necessary corrections.

Calculation of the mean lifting speed in cm/second.

$$Vm = \frac{D + d \cdot 3{,}14 \cdot n}{2 \cdot 60}$$

Vm = Mean lifting speed in cm/second.
D = Roll diameter in cm.
d = Tube diameter in cm.
n = Revolutions per min.
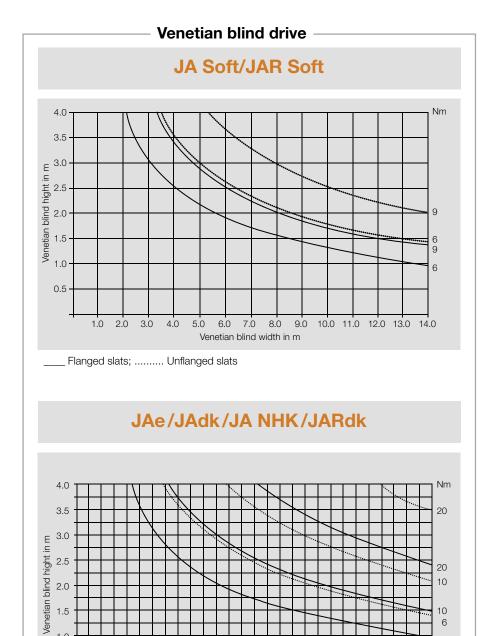
These values are guide values. No liability can be accepted!

RevoLine

Type 9 + 11

Venetian blind drives

Speciality drives

Hausautomation, radio controls, radio sensors

Hardwired controls sensors

Door drives

Door controls

Lifting capacity tables

Venetian blind drive

JA Soft/JAR Soft

_____ Flanged slats; .... Unflanged slats

JAe / JAdk / JA NHK / JARdk

_____ Flanged slats; .... Unflanged slats

Chart calculations based on	Flanged slats	Unflanged slats
Slat width (mm)	60 – 90	50
Winding pulley diameter (mm)	22	
Ribbon thickness (mm)	0.34	
Weight (incl. drop bar) (kg/m²)	2.0	1.2

These values are guide values. No liability can be accepted!

Your direct line

Your direct line

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Spain
Poland
Sweden

3 Russia

2 United States
USA

4 Asia
Dubai
India
China
Singapore

5 Australia
Australia

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Contact, order and support

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Sales	+49 7025 13-567

Outside business hours you can send us a fax, an e-mail or leave a message on our answering machine:

per Fax:	
Sales	+49 7025 13-290

Phone:	
Reception (mailbox)	+49 7025 13-01

E-Mail:	
Request:	Anfrage@elero.de
Order:	Bestellung@elero.de

You can reach our technical service staff during business hours via phone or e-mail:

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Technical support	+49 7025 13-550

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Visit our website at www.elero.com for further information.

Information:

All product information in the catalogue is based on products available on the 01.01.2016. We reserve the right to change technical specifications, documentation and design of the products.

Our products are only to be installed/commissioned by authorized and qualified persons. There are high risks to objects and persons if the products are installed or commissioned incorrectly.

Linear actuator technology/ louvre system drives

More than 50 years experience in constructing motors

Decades of experience

elero, the name which stands for high-quality electric precision linear actuators. Our products are based on mor than 50 years of experience in the construction of electric motors. Manufacturing high-quality products **is part of our philosophy. We achieve this level of quality by app-lying a sophisticated quality control system complying with the requirements of the international DIN ISO EN 9001 standard.**

elero Linear Drive Technology is a business unit of elero GmbH, one of the most important manufacturers of electric drives and controls for roller shutters, sun protection systems and doors. elero Linearantriebstechnik is well-known for customer dialogue, innovation and highest quality standards.

The company offers

– A wide range of electric push-rod actuators (linear actuators)

– The linear actuator solution for individual requirements – also in small quantities

– Short delivery times

– Highest quality and an optimum price/performance ratio

With more than 50 years experience in constructing motors, elero develops and manufactures reliable actuators with extremely compact design meeting the requirements especially in the mechanical engineering and plant manufacturing sectors.
elero actuators for permanent outside use combine extreme robustness with elegance and are therefore ideally suitable for actuator solutions in the modern facade architecture.

elero building in Poessneck/Thuringia

Compared to their pneumatic and hydraulic „colleagues" electric linear actuators have many assets:

Features:

– constant stroke speed
– no loss of oil
– mechanical self-locking

– almost maintenance free
– many speed variants
– exact positioning capability

If you are looking to combine energy efficiency, reliability and a long life expectancy, elero drives are the one to look for. We regard ourselves as being not just a supplier of linear actuators, but also a partner for the successful implementation of your ideas. Your requirements of our products are the measure of our quality.
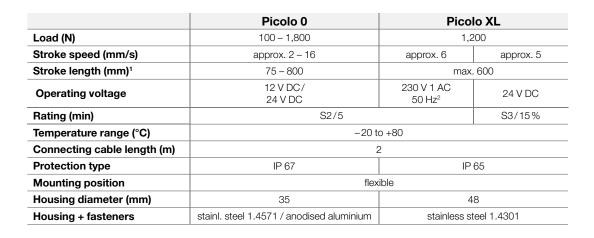
Following an overview of our most common drives. More drives in more details can be found on: www.elero-linear.com

Overview

Picolo (Industry/Facade)
The linear actuator for louvre adjustments in commercial architecture

Features:
- with its particularly slim construction, Picolo can easily be
  integrated into a variety of modern facade styles
- space-saving linear actuator with innovative design for the
  adjustment of photovoltaic louvres and large louvres made of glass, aluminium or stainless steel
- thanks to the weather-resistant construction, the mounting position is flexible
- integrated, easily adjustable limit switches

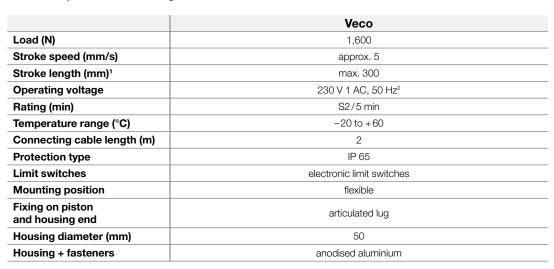|	Picolo 0	Picolo XL	
Load (N)	100 – 1,800	1,200	
Stroke speed (mm/s)	approx. 2 – 16	approx. 6	approx. 5
Stroke length (mm)[1]	75 – 800	max. 600	
Operating voltage	12 V DC / 24 V DC	230 V 1 AC 50 Hz[2]	24 V DC
Rating (min)	S2 / 5		S3 / 15 %
Temperature range (°C)	−20 to +80		
Connecting cable length (m)	2		
Protection type	IP 67	IP 65	
Mounting position	flexible		
Housing diameter (mm)	35	48	
Housing + fasteners	stainl. steel 1.4571 / anodised aluminium	stainless steel 1.4301	

Veco (Industry/Facade)
The economic solution for modern facade architecture

Features:
- the aluminium housing, electronic limit switches for individual stroke adjustment
  and the flexible mounting position highlight the efficiency
  and the economical characteristics of this actuator
- integration into building facades, for the adjustment of sun
  protection louvres, photovoltaic panels, daylighting systems
- slim and cylindrical actuator design

	Veco
Load (N)	1,600
Stroke speed (mm/s)	approx. 5
Stroke length (mm)[1]	max. 300
Operating voltage	230 V 1 AC, 50 Hz[2]
Rating (min)	S2 / 5 min
Temperature range (°C)	−20 to +60
Connecting cable length (m)	2
Protection type	IP 65
Limit switches	electronic limit switches
Mounting position	flexible
Fixing on piston and housing end	articulated lug
Housing diameter (mm)	50
Housing + fasteners	anodised aluminium

[1] Stroke lengths available in steps of 100 mm.
[2] All AC data (Stroke speed and power) based on 50Hz.
Drives can be operated on 60Hz as well, however Power is about 20% less and speed about 20% higher. Please contact us for detailed technical data.

Overview

Econom (Industry/Facade)
The linear actuators of the Econom series have the following outstanding features

Features:
– can be used for lifting platforms, locking devices, tilting devices, slat adjustment,
  points switching and many other applications
– steel or stainless steel versions
– high static and dynamic load capacity
– almost maintenance-free, low-noise operation, robust

	Econom 0 UL	Econom 0	Econom 01	Econom 1	Econom 2
Load (N)	100 – 3,000	100 – 3,000	500 – 5,000	900 – 10,000	5,000 – 20,000
Stroke speed (mm/s)	0.6 – 70 (6 mm/sec on facade model)	0.6 – 70	0.7 – 90	0.5 – 70	1.0 – 45
Stroke length (mm)	50 – 400	max. 400	max. 750		
Operating voltage	120 V / 60 Hz	24 V DC / 230 V 1 AC[1] / 400 V 3 AC[1]			400 V 3 AC[1]
Rating (min)	S3 / 15 %; S1 / 100 %				S3 / 15 %; S3 / 60 %
Temperature range (°C)	−20 to +80				
Connecting cable length (m)	1.50				
Protection type	IP 65s	IP 54 or IP 65			IP 54 or IP 65s
Limit switches	adjustable, with status signal				
Housing	black primer coating, alternatively in stainless steel				
Certification	c**RU**us	–	–	–	–

Agron (Agricultural)
Electromechanical linear actuator for electrically operated positioning

Features:
– Compact design
– Maintenance-free
– Ingress protection IP69K
– Precise distance measurement
– High reliability
– Multiple mounting possibilities
– Integrated absolute encoder, LIN-Bus control

	Agron
Load (N)	200 / 400
Stroke speed (mm/s)	approx. 10 / approx. 20
Stroke length (mm)	100 / 150
Operating voltage	12 V DC
Rating (min)	S3 / 15 %
Temperature range (°C)	−20 to +60
Connecting cable length (m)	1.5
Protection type	69 K
Mounting position	flexible
Housing diameter (mm)	35 × 57
Housing + fasteners	Aluminium anodised / Plastics PA

[1] All AC data (Stroke speed and power) based on 50 Hz. Drives can be operated on 60 Hz as well, however Power is about 20 % less and speed about 20 % higher. Please contact us for detailed technical data.

Overview

Junior (Industry)
Some outstanding features of this linear actuator

Features:
– versatile push rod drive with compact design for easy mounting
– reliable use for gas adjustment, etering equipment, points switching, tilting devices, hatch actuation and valve and slider operation
– Easy control, Start up ramp

	Junior 0E	Junior 1E-VA	Junior 1	Junior 1S	Junior 2 (24 V)	Junior 2 (230 V)	Junior 2 MSP
Load (N)	150 – 550		50 – 2,000	150 – 4,000	200 – 10,000	50 – 5,000	1,000 – 10,000
Stroke speed (mm/s)	1.6 – 30		0.9 – 50	2.1 – 50	1.2 – 85	2.5 – 70	1.2 – 19
Stroke length (mm)	max. 200				max. 350		
Operating voltage	24 V DC					230 V AC[1]	24 V DC
Voltage of the digital inputs and outputs	24 V DC		–				24 V DC
Rating (min)	S3/15 % S3/40 % S1/100 %		S3/40 % S3/60 % S1/100 %			S2/5 min	S3/15 %
Temperature range (°C)	–20 to +50	–10 to +50					
Connecting cable length (m)	plug contact	1.50					
Protection type	IP 54	IP 65	IP 54				
Limit switches	electronic limit switches		mechanical limit switches				
Housing	aluminium	stainless steel 1.4301	alu/plastic				
Overcurrent protection	yes		no				yes

Compakt (Industry)
The compact push-rod actuator

Features:
– tailor-made and extremely compact design thanks to special elero technology
– versatile push rod drive for locking devices (rolling doors), tilting devices, operable windows, lifting platforms and many other applications
– adjustable limit switches with status signal
– torsion-lock piston rod

	Compakt	
Load (N)	400 – 15,000	
Stroke speed (mm/s)	1.5 – 65	
Stroke length (mm)	max. 500	max. 1,000
Operating voltage	400 V 3 AC[1] or 24 V DC	
Control voltage	–	24 V DC
Rating (min)	S3/15 %; S1/100 %	
Temperature range (°C)	–10 to +50	
Connecting cable length (m)	1.50	
Protection type	IP 54	
Limit switches	mechanical limit switches	electronic limit switches
Housing	aluminium / plastic	

[1] All AC data (Stroke speed and power) based on 50 Hz. Drives can be operated on 60 Hz as well, however Power is about 20 % less and speed about 20 % higher. Please contact us for detailed technical data.
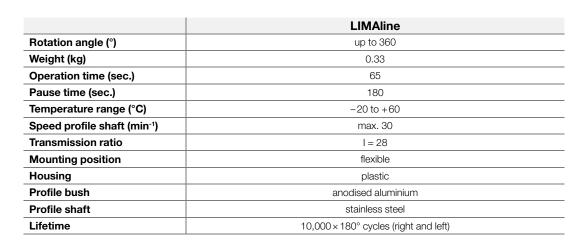
Overview

LIMAline (Facade)
The louvre actuator system for maximum architectural freedom

Features:
– makes top technology invisible in the facade architecture
– operates vertically and horizontally facade louvres of different materials
– shading, darkening, light deflection and sun position tracking are possible
– rotary movements of up to 360° allow for many design possibilities on the facade
– fits into fixed structures starting from 50 mm width
– all the actuator components are maintenance-free and resistant to corrosion
– For more information:
www.elero-linear.com / Service / Downloads / Products for facade construction/LIMAline / Facade Catalog LIMAline

	LIMAline
Rotation angle (°)	up to 360
Weight (kg)	0.33
Operation time (sec.)	65
Pause time (sec.)	180
Temperature range (°C)	−20 to +60
Speed profile shaft (min⁻¹)	max. 30
Transmission ratio	I = 28
Mounting position	flexible
Housing	plastic
Profile bush	anodised aluminium
Profile shaft	stainless steel
Lifetime	10,000 × 180° cycles (right and left)

Lockmaster (Industry/Facade)
The electromechanical linear actuator for locking mechanisms

Features:
– applications under extreme ambient conditions (outdoors),
in underground sewer systems, underwater
– for simple locking functions: locking of manhole covers, for access systems and doors,
for increased security in buildings through the integration into centralised building
management systems, locking of machine and plant components
– maintenance-free operation allows the use under extreme ambient conditions
and in areas with limited accessibility

|	Lockmaster
Load (N)	50
Stroke speed (mm/s)	30
Stroke length (mm)	50
Operating voltage	230 V 1 AC; 50 Hz[1]
Rating (min)	S2 / 1.0
Temperature range (°C)	−20 to +80
Protection type	IP 67 at 0.1 bar (equivalent to a water depth of 1.0 m)
Limit switches	preset, no adjustment necessary
Mounting position	flexible
Fixing on piston end	clevis end
Housing diameter (mm)	61.5
Housing length	168
Housing + fasteners	stainless steel 1.4301
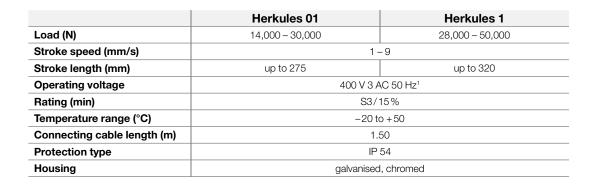
Overview

Herkules (Industry)
The linear actuators of the Herkules series have the following outstanding features

Features:
- suitable for heavy-duty applications
- protection against dirt, dust and other environmental influences
- combination of high pushing/pulling forces and low space requirement
- for lifting platforms, locking devices, tilting devices, slat adjustment, points switching and many other applications
- low maintenance lubrication system

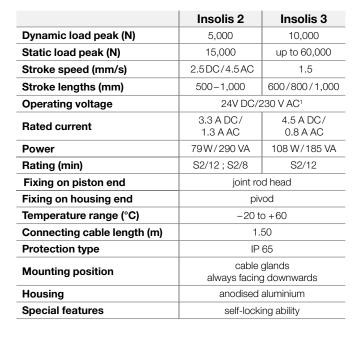|	Herkules 01	Herkules 1
Load (N)	14,000 – 30,000	28,000 – 50,000
Stroke speed (mm/s)	1 – 9	
Stroke length (mm)	up to 275	up to 320
Operating voltage	400 V 3 AC 50 Hz[1]	
Rating (min)	S3/15 %	
Temperature range (°C)	−20 to +50	
Connecting cable length (m)	1.50	
Protection type	IP 54	
Housing	galvanised, chromed	

Insolis (Solar/Photovoltaic systems)
The actuator series for solar photovoltaic systems

Features:
- extremely high static loads compared to required dynamic loads
- corrosion resistance against environmental influences over long periods
- modular system, flexible integration into existing and new systems
- option for Insolis 3: electronically programmable limit switches with integrated overload protection

	Insolis 2	Insolis 3
Dynamic load peak (N)	5,000	10,000
Static load peak (N)	15,000	up to 60,000
Stroke speed (mm/s)	2.5 DC/4.5 AC	1.5
Stroke lengths (mm)	500 – 1,000	600/800/1,000
Operating voltage	24V DC/230 V AC[1]	
Rated current	3.3 A DC/ 1.3 A AC	4.5 A DC/ 0.8 A AC
Power	79 W/290 VA	108 W/185 VA
Rating (min)	S2/12 ; S2/8	S2/12
Fixing on piston end	joint rod head	
Fixing on housing end	pivod	
Temperature range (°C)	−20 to +60	
Connecting cable length (m)	1.50	
Protection type	IP 65	
Mounting position	cable glands always facing downwards	
Housing	anodised aluminium	
Special features	self-locking ability	

Vario (Industry)
The linear actuators of the Vario series have the following outstanding features

Features:
- combination of high performance and low space requirement
- flexible concept thanks to a versatile modular system
- optimum protection against dirt, dust and other environmental influences
- robust construction, for special machine construction, materials handling technology, overhead catenary construction, shipbuilding or communications engineering

	Vario 1	Vario 2
Load (kN)	4 – 50	10 – 100
Stroke speed (mm/s)	1 – 70	
Stroke length (mm)	max. 800	max. 1,000
Operating voltage	400 V 3 AC, 50 Hz	400 V 3 AC, 50 Hz
Control voltage electronic limit switches	24 V DC	
Voltage supply analogue output	24 V DC/20 mA	
Rating (min)	S3/15 %	
Temperature range (°C)	−10 to +50	
Connecting cable length (m)	1.50	
Protection type	IP 54	
Housing	black primer coating	

Terms and conditions of sale

§ 1 Scope of validity

1. Our terms and conditions of sales apply exclusively. They apply for this and all future transactions with the ordering party unless otherwise expressly agreed between the parties. We do not recognise conflicting or differing terms and conditions of the customer. The business terms and conditions of the ordering party or of third parties have no validity irrespective of whether this validity is specifically rejected or is taken into account in correspondence, or correspondence contains or refers to the terms and conditions of the ordering party or a third party. Exceptions must be agreed in writing between the parties.
2. Unless otherwise stated in the contract terms, the terminology and definitions of INCOTERMS 2000 apply.

§ 2 Contract signing

1. Our quotations are non-binding. Technical descriptions and other details in brochures and other information are non-binding unless they are expressly identified as binding
2. We reserve our copyrights and title rights to samples and brochures, technical descriptions, calculations and other documents. These may not be made accessible to third parties without written approval.
3. The acceptance declaration and all confirmations require the written form to be valid.
4. If the order is to qualify as an offer according to § 145 of the German Civil Code (BGB) we can accept this within 12 working days.
5. Details in samples, brochures, technical descriptions and in public announcements on our part, by manufacturers and their agents (§ 434 para. 1 p. 3 BGB) are an inherent part of the performance description when expressly taken into account in the contract.
6. With the exception of the managing director and sales manager our (sales) employees are not authorised to make verbal side agreements which differ from these terms and conditions or to give verbal assurances which transcend the content of the written contract.

§ 3 Prices and sales conditions

1. The agreed prices apply. These are understood to be "ex works" plus packaging, statutory VAT, duty in the case of exports plus fees and other public levies and additional payments, e.g. for insurance. The statutory VAT is itemised separately in the invoice at the valid rate at the time of billing.
2. If substantial cost elements vary before the day of the delivery, a price increase is possible if the delivery or performance is more than four months after the contract signing. The price increase shall take place taking into account the mutual interests of the contract parties.
3. Invoice amounts are due immediately, in full, unless agreed otherwise within eight days – 3 % discount, within 14 days – 2 % discount and within 30 days net of receipt of the goods. The invoice shall be paid in cash or by bank transfer. It is considered as having been paid once we have received the amount without extra cost.
4. Other payment methods require our written consent. The costs arising on either side shall be paid by the ordering party. Payment by exchange is not admissible.
5. The ordering party has a right to offsetting or retention only in the case of undisputed or legally verified debts or accounts.

§ 4 Delivery and duties of cooperation

1. The scope of our duty to deliver is exclusively defined by the respective contract. We reserve the right to make changes to construction, form and colour as a result of technical improvement or legal requirements, provided such changes are not substantial or otherwise unreasonable for the ordering party.
2. We are entitled to partial delivery if – the partial delivery can be used by the ordering party within the context of the contractually designated purpose, – the delivery of the remainder of the goods ordered is guaranteed and – the ordering party is not faced with considerable secondary or additional costs as a result.
3. Deliveries shall be carried out "ex works" unless otherwise agreed in writing between the parties.
4. The delivery dates are agreed in principle subject to the cooperation of the ordering party in accordance with the contract. Dates and deadlines set for deliveries and performances always apply as approximate unless agreed as "final".Compliance with our delivery duty assumes that the ordering party fulfils its obligations promptly and properly.
5. If our suppliers deliver incorrectly or fail to deliver on time, even though we have issued orders to reliable suppliers which cover the demand at least, we shall be exempt from our performance obligation and may withdraw from the contract unless the delivery delay is only temporary.
6. If it transpires after the signing of the contract that the ordering party has no guarantee of creditworthiness and our payments are threatened we are entitled to refuse delivery until the ordering party makes payment or provides assurance thereof. If the payment or security provision is not provided within 12 working days after a request has been made, we are entitled to withdraw from the contract.
7. If the ordering party falls behind with acceptance or collection or is responsible for a delay in dispatch or delivery we are entitled, without prejudice to further

claims, to demand a fixed cost amounting to the standard local costs of storage, irrespective of whether the goods are stored by us or a third party. The burden of proof that less or no damage was caused lies with the ordering party.

§ 5 Delay in delivery

1. If the date for the delivery agreed with the ordering party cannot be complied with for reasons beyond our control, particularly operating interruptions of any kind, difficulties in the procurement of materials or energy, transport delays, strikes, legal lockouts, shortages of workforce, shortages of energy or raw materials, difficulties in the procurement of the required official approvals and/or official measures within our sphere or in the sphere of our supplier, the delivery period shall be extended by the duration of the obstacle plus an appropriate lead time.
2. If the circumstances delaying the delivery last for a month after the agreed delivery deadline, either party may withdraw from the contract. Further claims due to delivery times being exceeded for reasons which are not unintentional or are due to gross negligence on our part are excluded. Damage claims are limited to the contract-typical foreseeable damage.

§ 6 Place of fulfilment and transfer of risk

The place of fulfilment for all obligations from the contract relationship in the case of orders in the field of drive technology is our registered office in 72660 Beuren, and for orders in linear technology it is our registered office in 07381 Pößneck.

§ 7 Packing

We pack all goods appropriately. The costs for the disposal of transport and sales packaging shall be borne by the ordering party.

§ 8 Dispatch

1. If dispatch is agreed between the parties the risk of the loss of the subject of the delivery transfers to the ordering party at the latest with hand-over of the subject of the delivery to the shipper, freight carrier or other third party appointed for the delivery. This applies equally if we have made part-deliveries and have also taken on other performances.
2. If the delivery or hand-over is delayed due to circumstances for which the ordering party is responsible, the risk transfers to the ordering party from the day on which the subject of the delivery is ready for dispatch and we have indicated this to the ordering party.
3. Storage costs after the transfer of the risk shall be paid for by the ordering party. If stored by us, the storage costs are 0.5% of the invoice amount for the subjects of the delivery being stored per week of delay. We reserve the right of assertion and proof of greater or lesser storage costs.
4. The shipment is insured against theft, breakage, transport, fire and water damage or other risks by us only at the express preference and cost of the ordering party.

§ 9 Material defect

1. The ordering party is subject with reference to material defect to the legal obligation to inspect and report defects according to § 377 HGB.
2. Wear and tear on batteries, battery packs and other consumables is not included as material defect. The legal warranty for the normal, generally-expected quality and as-intended usability of these articles is not affected hereby. If we provide a guarantee for certain products which transcends the legal liability for defects, particularly an extended period for defect-related cost-free replacement of materials, these do not count as wear or tear articles.
3. The ordering party cannot derive rights from material defects which do not or do not substantially affect the value and fitness for use as intended
4. If the items exhibit a material defect at the time of the transfer of risk, we are entitled and obliged to offer supplementary performance. Supplementary performance shall, at our discretion, be in the form of repair or replacement.
5. If the supplementary performance fails, does not take place within a suitable period set by the ordering party or is refused, the ordering party is entitled at its discretion to withdraw from the contract, to demand a lowering (reduction) of the purchase price appropriate to the defect and value or, within the limits of the following conditions, compensation in place of performance.
6. Should a material defect lead to damage according to the legal provisions, we are liable insofar as this relates to personal damage, for damage under the product liability law or damage caused by intent or gross neglect.
7. If the damage is based on a culpable violation of a substantial contractual duty or a "cardinal duty" we are liable, with exception of the cases in section 3, only for foreseeable, contract-typical damage.
8. Further contract- and tort-related claims of the ordering party are excluded. We are particularly not liable for the cases named in para. 6, for damage which has not resulted from the subject of the delivery itself or for lost profit or other damage to the assets of the ordering party.

§ 10 Other damage liability

1. The provisions in § 9 para. 6-8 also apply for damage claims due to other obligatory duties. In the event of the violation of a contractual duty or a performance obstacle existing at the time of the contract signing (§§ 311 para. 2, 311a BGB) our compensatory duty is limited to the negative interest.
2. Our tort liability is subject to the provisions in § 9 para. 6-8.
3. Insofar as our liability is excluded or limited, this also applies for personal liability of our employees, staff, colleagues, agents and vicarious agents.

§ 11 Retention of title

1. The title of the goods supplied is retained until our total accounts against the ordering party from the business relationship including future accounts arising from contracts signed at the same time or later have been settled. The same applies when accounts are made in a running invoice and the balance is brought forward and acknowledged. Title transfers to the ordering party when the total liabilities for whatever reason have been settled. We are obliged to release our securities insofar as their value exceeds our accounts by more than 10 %.
2. The ordering party is entitled to sell or process the goods in a proper business transaction. This right is cancelled on cessation of payment or application for or commencement of an insolvency process. Any processing is carried out by the ordering party on our behalf without our being obligated in any way. In the event of processing, joining or mixing the reserved products with other products we automatically receive shared ownership of the new item at a value in the event of processing, in relation of the value (= gross invoice value including side costs and taxes) of the reserved products to the value of the new item, and in the event of processing, joining or mixing the reserved products with other products, in relation of the value of reserved products to the value of the other products.
3. The ordering party herewith cedes to us all accounts derived from the resale of the goods. The ordering party is also authorised to collect these accounts after cessation. Our authorisation to collect the accounts ourselves is unaffected by this. However we shall make no use of this right, provided the ordering party meets its payment and other obligations. On request the ordering party shall disclose to us the ceded accounts and their debtors plus all details required for collections, provide us with the related documents and instruct the debtors of the cessation.

4. In the event of contract-infringing behaviour on the part of the ordering party, particularly payment arrears, we are entitled to withdraw from the contract and take back the goods. For the purpose of taking back the goods the ordering party herewith irrevocably consents to our entering its business and storage premises and taking the goods away.
5. While we still have title, the ordering party may neither offer for security nor pledge the goods or items manufactured from said goods without our consent.
6. In the case of pledging and other third party interventions the ordering party shall notify us in writing. The ordering party is not permitted to make any agreements with its receivers which might affect our rights.
7. We are obliged to release the security due us at the request of the ordering party and at our discretion insofar as the realisable value of the security exceeds the claim to be secured by more than 10 % or its nominal value by more than 50 %.

§ 12 Final provisions

1. The invalidity of individual provisions shall not affect the validity of the remainder.
2. If the ordering party is a merchant, the legal venue for all disputes is the registered office of elero GmbH in 72660 Beuren. The legal venue is not exclusive.
3. German law applies to the exclusion of the UN purchasing law (CISG).
4. We refer to the fact, in accordance with the provisions of the German data protection act, that we store personal data about the ordering party (name, address) by EDP for internal purposes only.

elero GmbH

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Chief Executive:
Enzo Viola
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Status 01.01.2017

TheNiceGroup