



SK20

Signal Converter

Conversion of digital absolute encoder data into analog signal (voltage or current).

- Conversion of SSI-data (synchron serial interface) or Start/Stop-signals (transsonar / magnetostrictive transducers)
- Connection of digital position encoders to analog control systems
- Recording of position-time data or monitoring functions.
- Output signal selectable: 0-10 V / 4-20 mA / 0-20 mA
- Galvanic insulation
- High resolution (16 bit), cycle time 1 ms
- Stand alone or parallel connection
- Easy handling through teach-in programming
- Mounting on standardized TS 35 rail
- Comprehensive monitoring and diagnostics function with LEDs and ready/fault signal output



Order data

SK20.2

Conversion of SSI data into analog signal

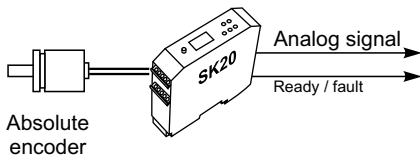
SK20.4

Conversion of transsonar data (P-interface) into analog signal

Application examples

Stand-alone

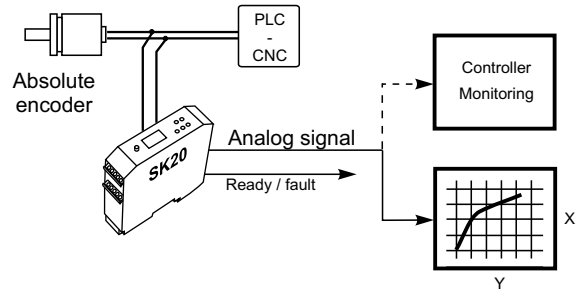
Connection of digital standard encoder to analog control systems.



Parallel connection

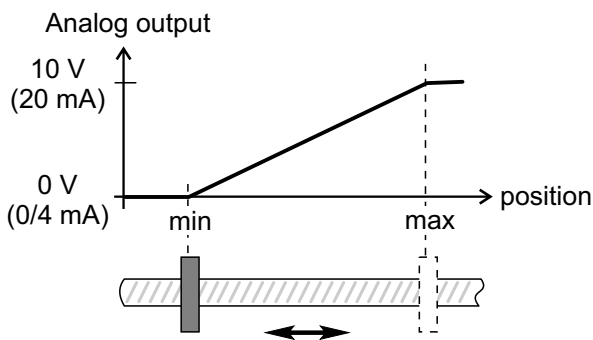
Connection to analog control- and monitoring systems.

Record and monitoring of position-time movement for example by plotter or measuring equipment.



Analog output

Selectable: 0-10 V / 4-20 mA / 0-20 mA



Easy programming

1. Activate programming



2. Store "min" position
Store "max" position



3. Quit programming



Technical data

General

Ambient temperature: 0 to +50 °C
Storage temperature: -20 to +70 °C
Dimensions: 22,5 x 91,5 x 90 mm (WxDxH)
Mounting: TS 35 rail
Protective system: IP 20

Supply voltages

Nominal: 24 VDC
Permissible range: 18 - 30 VDC
Input current: ca. 0,1 A
Reverse polarity protected by diode.

Supported Measurement-Systems:

Singleturn-, multiturn- and linear encoders

Analog output (current or voltage)

Resolution: 16 bit
Cycle time: 1 ms

SSI-Encoders (SK20.2)

Signal level: RS422
Code: Gray-/binary-code
Clock frequency: 230 KHz (stand alone)
70-600 KHz (parallel connection)

Current output

- Signal level: 4 - 20 / 0 - 20 mA
- Max. error: 0,1%
- Load impedance: $\leq 600 \Omega$

Encoders with Start/Stop-Signal (SK20.4)

Interface: Digital P-interface/R-module
Resolution: 25 / 50 μ m

Voltage output

- Signal level: 0 - 10 V
- Max. Error: 0,2%
- Output impedance: 0 Ω
- Load impedance: $\geq 1 K\Omega$

Ready / fault signal

Transistor output: max. 50 mA

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