

Datasheet

Features

- Clearly arranged LED display
- Hollow shaft Ø20 mm made of stainless steel
- Other sizes are made using reducing sleeves
- Freely programmable
- Area of application:
Spindle adjustment, linear movement via toothed rack / toothed belt, angle settings on woodworking-, printing-, packaging-machines, handling technology, assembly technology and length stops for sawing technology.



Mechanical data

Dimensions	
Hollow shaft	Ø20 mm
Reducing bush	Ø8 - Ø10 - Ø12 - Ø14 - Ø16 - Ø18 mm
Material	
Hollow shaft	Stainless steel
Housing	PPS, black
Weight	Approximately 160 g
Display	LED; 5-digit red
Digit height	7.6 mm
Resolution	
Steps	6000
Spindle pitch	0.001 mm - 6 mm
Angle display	360°
Scaling factor	0.0001 - 999.99 programmable
Speed	< 600 U/min ⁻¹
Storage temperature	-20 °C ... +70 °C
Operating temperature	+5 °C ... +50 °C
Humidity	<80% (non-condensing at +25 °C)
Application area	Degree of contamination 2
Protection class	Overvoltage protection class II
DIN40050	IP40 or IP54
EN 61010	Protection class II
Functions	Display 180° adjustable, decimal point, prefix zero suppression, sign for negative values, reference value, incremental measurement function, switched absolute- and REL-value,
programmable	IST-Wert (actual value) memory OFF/ON
Accessories	SN12-connector, power supply 230/12 VDC

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Electrical data

Power supply	8 ... 27 VDC
Power consumption	max. 170 mA
Data storage	<10 years (via EEPROM)
Connector	circular connector M12; 4-pole
Certification	
Interference immunity	EN 50082-2 severity level 2-3
Emitted interference	EN 50081-2
Device safety designed to	EN 61010

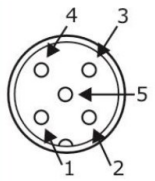
Factory setting

Reference value	0
Scaling factor	1.000
Display	Without decimal point
Phase evaluation.	x1 (1500 impulses/revolutions)
Counting direction	Left / right adjustable
Reference signal	Active (for clockwise rotation)
Display position	Applicable for horizontal and vertical spindle, programmable

Assignment Spindle display

Pin	Color	Signal
1	brown	Power supply 0 V (GND)
2	white	Power supply 8 ... 27 VDC
3	blue	n.c.
4	black	n.c.

Assignment Circular connector M12; 4-pole

Pin	PIN	Signal
	1	Supply voltage 0 V (GND)
	2	Supply voltage 8 ... 27 VDC
	3	Reference input (PNP)
	4	n.c.
	5	n.c.
Connection "4" and "5" only in the execution with interface.		

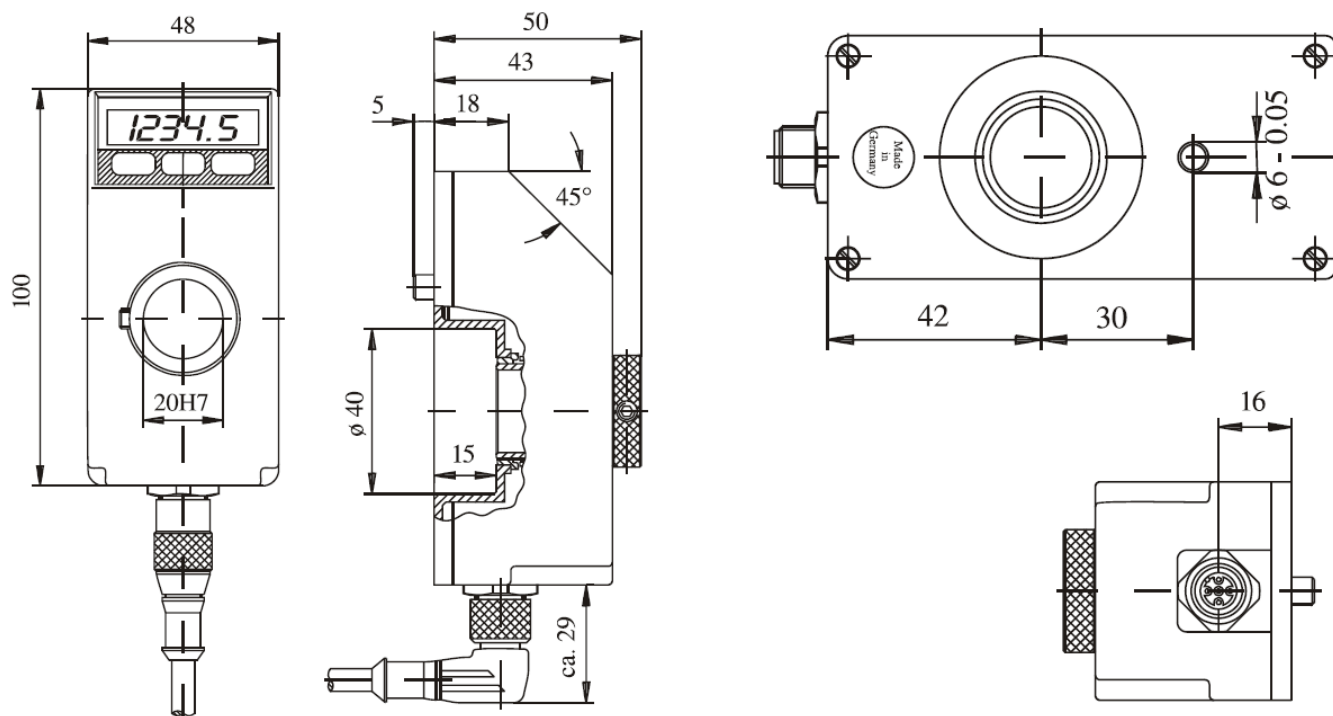
Socket (side): Occupancy (interior+, exterior-)

DC connection Supply voltage and security

Recommended supply voltage	External security DC
8 ... 27 VDC	max. 200 mA

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Dimensions



Ordering example

Type **EP6/1** - **20** - **40** - **C**

Hollow shaft diameter

20	= Ø20 mm
18	= Ø18 mm
16	= Ø16 mm
14	= Ø14 mm
12	= Ø12 mm
10	= Ø10 mm
8	= Ø8 mm

Protection class

40	= IP40
54	= IP54

Connection

C	= including mating connector
C0	= without mating connector
CG-02	= connector straight, cable length 2 m
CW-02	= angled connector, cable length 2 m