

Basic features

Approval/Conformity	CE WEEE
Basic standard	IEC 60947-5-2 IEC 60947-5-7

Display/Operation

Power indicator	no
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Electrical connection

Connection	M12x1-Male, 3-pin, A-coded
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Limit frequency -3 dB	20 Hz
Load resistance RL min.	10000 Ohm
No-load current I _o max. at U _e	12 mA
Operating voltage U _b	20...30 VDC
Rated insulation voltage U _i	75 V DC
Rated operating voltage U _e DC	24 V
Ripple max. (% of U _e)	15 %
Slope U	0.50 V/mm

Environmental conditions

Ambient temperature	-10...70 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67

Interface

Analog output	Analog, voltage 0...10 V
Output characteristic	falling on approach
Output voltage at SI max.	10 V
Output voltage at SI min.	0 V
Output voltage at Se	5 V

Material

Housing material	Brass, nickel-plated
Material sensing surface	PBT

Mechanical data

Dimension	Ø 47 x 70 mm
Installation	for flush mounting
Size	PG36
Tightening torque	40 Nm

Range/Distance

Linearity range SI	0...20 mm
Measuring range	0...20 mm

Non-linearity max.	±600 µm
Repeat accuracy per BWN	±5 µm
Temperature drift max. from end value	±5.0 %

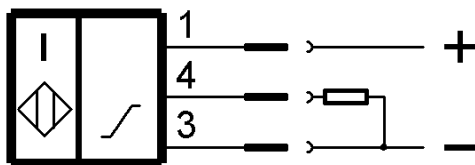
Remarks

With connector, e.g. BKS-S 20-... total length = switch length +18 mm.
 Values referenced to axial approach of St 37 target. For other materials correction factors are applied.

Connector Drawings



Wiring Diagrams



Technical Drawings

