

Display/Operation

Power indicator	no
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Electrical connection

Connection	M12x1-Male, 4-pole, A-coded
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

No-load current I_0 max. at U_e	12 mA
Operating voltage U_b	20...30 VDC
Polarity reversal protected	yes
Rated insulation voltage U_i	75 V DC
Rated operating voltage U_e DC	24 V
Residual ripple max. (% of U_e)	15 %

Environmental conditions

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

IP rating	IP67
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General data

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

Material

Housing material	PBT
Material sensing surface	PBT

Mechanical data

Dimension	80 x 80 x 40 mm
Installation	non-flush

Output/Interface

Analog output	Analog, voltage, Voltage falling on approach
Output voltage at S_e	5 V
Output voltage at S_I max.	10 V
Output voltage at S_I min.	0 V

Range/Distance

Linearity range SI	0...50 mm
Measuring range	0...50 mm
Non-linearity max.	±1500 µm
Repeat accuracy per BWN	±12.0 µm
Temperature drift max. from end value	±7.0 %

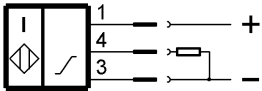
Remarks

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 view



Wiring Diagram



Diagram

