

### Basic features

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

### Display/Operation

Function indicator	Adjustment indicator
Power indicator	no

### Electrical connection

Cable diameter D	3.00 mm
Cable length L	0.3 m
Connection	M8x1-Male, 3-pin
Connection type	Cable with connector, 0.30 m, PUR
Polarity reversal protected	no
Protection against device mix-ups	no
Short-circuit protection	no

### Electrical data

Limit frequency -3 dB	1000 Hz
Load resistance RL min.	5000 Ohm
No-load current I <sub>o max.</sub> at U <sub>e</sub>	15 mA
Operating voltage U <sub>b</sub>	21.6...26.4 VDC
Rated insulation voltage U <sub>i</sub>	75 V DC
Rated operating voltage U <sub>e DC</sub>	24 V
Ripple max. (% of U <sub>e</sub> )	10 %
Slope U	3.30 V/mm

### Environmental conditions

Ambient temperature	0...70 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g <sub>n</sub> , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67

### Functional safety

MTTF (40 °C)	640 a
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### 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	PA 6, GF30
Material jacket	PUR
Material sensing surface	PA 6, GF30

### Mechanical data

Dimension	30 x 10 x 6 mm
Installation	for flush mounting
Tightening torque	0.6 Nm

Range/Distance

Linearity range $S_l$	1...4 mm
Measuring range	1...4 mm

Non-linearity max.	$\pm 150 \mu\text{m}$
Repeat accuracy per BWN	$\pm 35 \mu\text{m}$
Temperature drift max. from end value	$\pm 5.0 \%$

Remarks

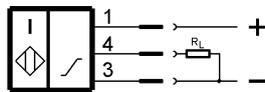
Values referenced to axial approach of St 37 target. For other materials correction factors are applied.  
 Flush mounting only in St37. For installation in other materials see 845223.  
 Technical data are valid after warmup time > 10 minutes  
 For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Connector Drawings



Wiring Diagrams (Schematic)



Technical Drawings

