

1) Sensing surface



**Basic features**

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

**Display/Operation**

Power indicator	no
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**Electrical connection**

Connection	M8x1-Male, 3-pin
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 Io max. at Ue	15 mA
Operating voltage Ub	21.6...26.4 VDC
Rated insulation voltage Ui	75 V DC
Rated operating voltage Ue DC	24 V
Ripple max. (% of Ue)	10 %
Slope U	6.70 V/mm

**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

**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	Aluminium, Anodized
Material sensing surface	PBT

## Mechanical data

Dimension	30 x 20 x 8 mm
Installation	for flush mounting

## Range/Distance

Linearity range SI	0.5...2 mm
Measuring range	0.5...2 mm
Non-linearity max.	±45 µm
Repeat accuracy per BWN	±12 µm
Temperature drift max. from end value	±5.0 %

## Remarks

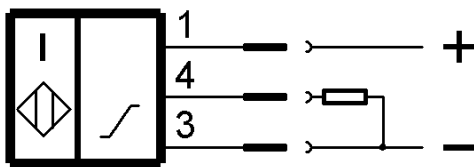
Values referenced to axial approach of St 37 target. For other materials correction factors are applied.  
 The specified parameters apply to the temperature range of +10...+60 °C. Function is also guaranteed in the ranges -10...+10 °C and +60...+70 °C.  
 For more information about MTTF and B10d see 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.

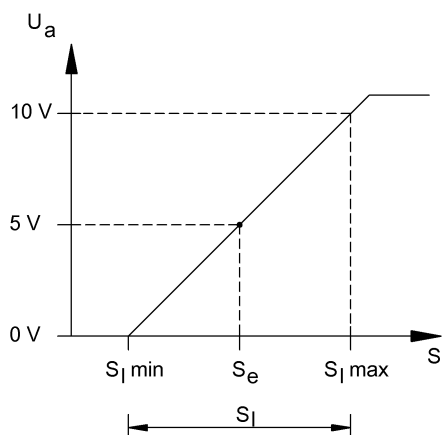
## Connector Drawings



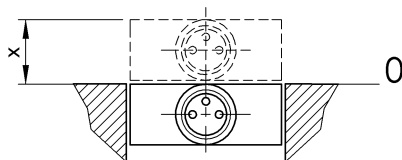
## Wiring Diagrams



## Technical Drawings



## Help Views



<sup>L</sup>  
Installation  $X = 0 \dots 8.0$