



### Basic features

Approval/Conformity	CE WEEE
Basic standard	IEC 60947-5-2
Target material	Steel

### Display/Operation

Function indicator	yes
Power indicator	no

### Electrical connection

Connection	M12x1-Male, 4-pin, A-coded
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

### Electrical data

Load capacitance max. at Ue	0.15 µF
Min. operating current Im	0 mA
No-load current Io max., damped	10 mA
No-load current Io max., undamped	10 mA
Operating voltage Ub	10...30 VDC
Output resistance Ra	Open collector
Pulse lengthening	2.5...250 ms
Rated insulation voltage Ui	75 V DC
Rated operating current Ie	200 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ripple max. (% of Ue)	15 %
Utilization category	DC -13
Voltage drop static max.	2 V

### Environmental conditions

Ambient temperature	-25...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	IP65

### Functional safety

MTTF (40 °C)	1275 a
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### Interface

Switching output	PNP normally open (NO)
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### Material

Housing material	Plastic
Material sensing surface	Plastic

### Mechanical data

Dimension	115 x 80 x 30 mm
Pass-through	45.0 mm
Target size min.	Ball D = 9 mm

## Remarks

After eliminating the overload, the sensor is functional again after a load-dependent delay time of 5-30 s.  
Pulse lengthening adjustable.  
Static detection of metallic parts  
Sensitivity adjustable  
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)

