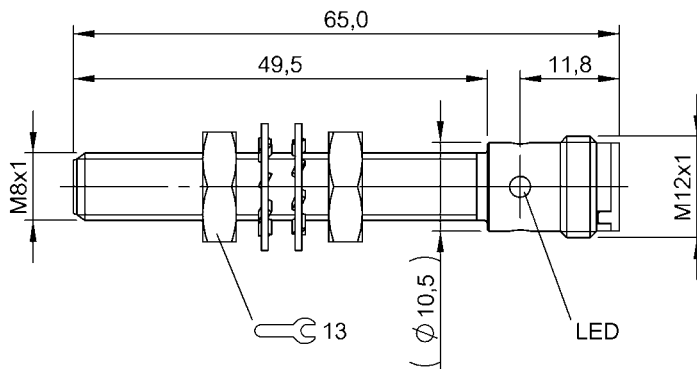




Basic features

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

Display/Operation

Diagnostic function	yes
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 DSC max. at Ue	20 nF
Load capacitance max. at Ue	0.5 µF
Min. operating current Im	5 mA
No-load current Io max., damped	12 mA
No-load current Io max., undamped	10 mA
Operating voltage Ub	18...30 VDC
Output resistance Ra	Open collector
Protection class	II
Rated insulation voltage Ui	250 V AC
Rated operating current Ie	65 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	100 ms
Residual current Ir max.	20 µA
Ripple max. (% of Ue)	15 %
Switching frequency	300 Hz
Utilization category	DC -13

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	IP67

Interface

Switching output	PNP normally open (NO)
------------------	------------------------

Inductive Sensors
BES M08EI-PSY15B-S04G-D01
Order Code: BES03EL



Material

Housing material	Stainless steel
Material sensing surface	PBT

Mechanical data

Dimension	Ø 8 x 65 mm
Installation	for flush mounting
Mounting length	49.50 mm
Size	M8x1
Tightening torque	8 Nm

Range/Distance

Assured operating distance Sa	1.2 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	1.5 mm
Real switching distance sr	1.5 mm
Repeat accuracy max. (% of Sr)	5.0 %
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

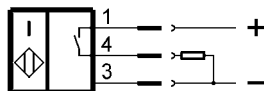
Remarks

The sensor is functional again after the overload has been eliminated.
Voltage drop Ud RMS as a function of load current and sensor state at Ubrmax, see diagram.

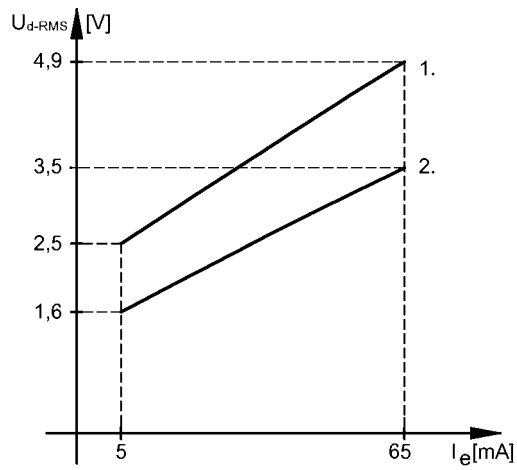
Connector Drawings



Wiring Diagrams



Technical Drawings



- 1) Target in the safe area
- 2) Warning message active