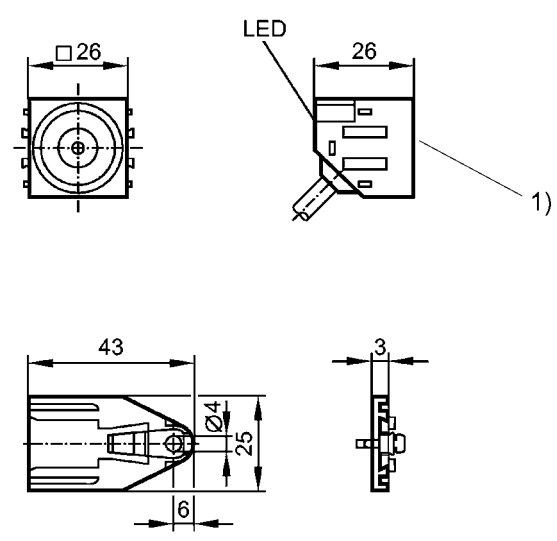
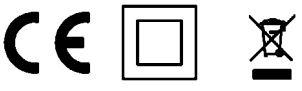


Inductive Sensors

BES Z03K-GSS10B-EP00,8-GS04-006
Order Code: BES030F



1) Sensing surface



Basic features

Approval/Conformity	CE WEEE
Basic standard	IEC 60947-5-2
Scope of delivery	Mounting screw M4x10

Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Cable length L	0.8 m
Connection	M12x1-Male, 4-pin, A-coded
Connection type	Cable with connector, 0.80 m, PUR
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	0.1 µF
Min. operating current Im	2 mA
Operating voltage Ub	10...36 VDC
Protection class	II
Rated insulation voltage Ui	250 V AC
Rated operating current Ie	100 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	300 ms
Residual current Ir max.	600 µA
Ripple max. (% of Ue)	10 %
Switching frequency	250 Hz
Utilization category	DC -13
Voltage drop static max.	4.6 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	IP67

Functional safety

MTTF (40 °C)	2575 a
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Interface

Switching output	polarized normally open (NO)
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Material

Housing material	PA
Material jacket	PUR
Material sensing surface	PA

Mechanical data

Dimension	26 x 26 x 43 mm
Installation	for flush mounting
Size	26x26

Range/Distance

Assured operating distance Sa	8.1 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	10 mm
Real switching distance sr	10 mm
Repeat accuracy max. (% of Sr)	10.0 %
Tolerance Sr	±10 %

Remarks

Function indicator red LED only visible in switched state
The sensor is functional again after the overload has been eliminated.
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

