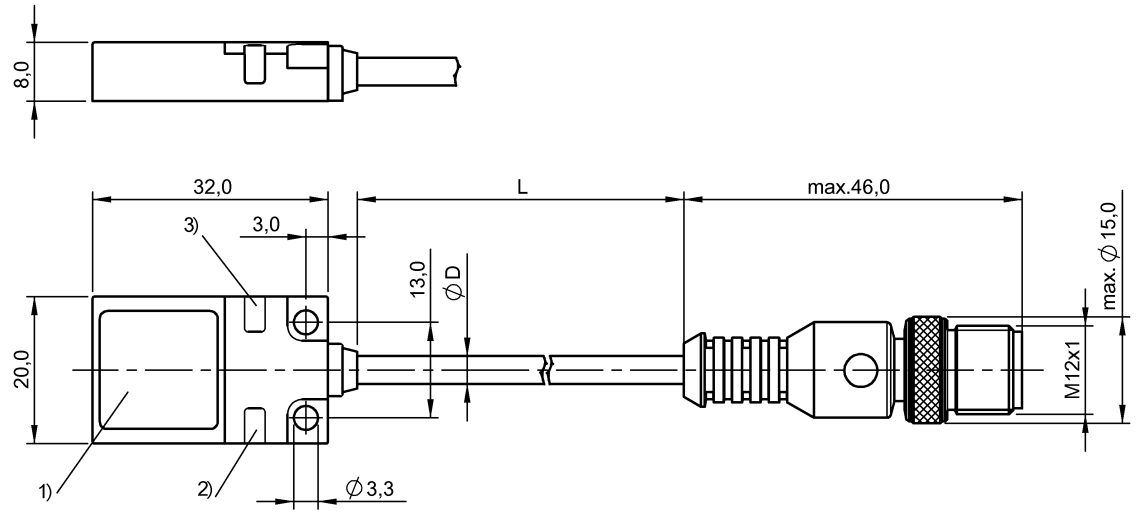
Inductive Sensors

BES R01ZC-PAC70B-BP00.2-GS04

Ordercode: BES01W2



1) Sensing surface 2) LED green 3) LED yellow

Display/Operation

Function indicator	yes
Power indicator	yes

Electrical connection

Cable diameter D	3.80 mm
Cable length	0.2 m
Connection	M12x1-Male, 4-pole, A-coded
Connection type	Cable with connector, 0.20 m, PUR
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Contamination scale	3
Load capacitance max. at Ue	1 µF
No-load current Io undamped max.	15 mA
Operating voltage Ub	10…30 VDC
Output resistance Ra	33.0 kOhm + D
Polarity reversal protected	yes
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
Ready delay tv max.	20 ms
Repeat accuracy max. (% of Sr)	5.0 %
Residual current Ir max.	80 µA
Residual ripple max. (% of Ue)	10 %
Switching frequency	150 Hz
Utilization category	DC-13
Voltage drop static max.	2.5 V

Environmental conditions

Ambient temperature	-25…70 °C
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 per IEC 60529	IP67

Functional safety

MTTF (40 °C)	675 a

General data

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

Material

Housing material	Zinc, Die casting
Material jacket	PUR
Material sensing surface	PA 12

Mechanical data

Dimension	32 x 20 x 8 mm
Installation	flush

Output/Interface

Switching output	PNP Normally open/Normally closed (NO/NC)

BES R01ZC-PAC70B-BP00.2-GS04
Ordercode: BES01W2

Range/Distance

Assured operating distance Sa	5.6 mm
Effective operating distance Sr	7 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	7 mm
Temperature drift max. (% of Sr)	10 %

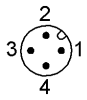
Remarks

The sensor is functional again after the overload has been eliminated.
LED yellow: Function
LED green: Power

For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

Connector view



Wiring Diagram

