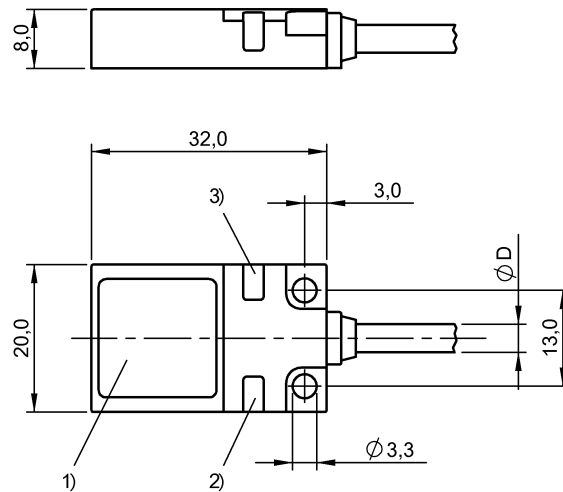




1) Sensing surface, 2) LED green, 3) LED yellow



Display/Operation

Function indicator	yes
Power indicator	yes

Electrical connection

Cable diameter D	3.80 mm
Cable length L	3 m
Conductor cross-section	0.14 mm ²
Connection type	Cable, 3.00 m, PUR
Number of conductors	4
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at U _e	1 µF
Min. operating current I _m	0 mA
No-load current I _o max., damped	15 mA
No-load current I _o max., undamped	15 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	33.0 kOhm + D
Rated insulation voltage U _i	75 V DC
Rated operating current I _e	200 mA
Rated operating voltage U _e DC	24 V
Rated short circuit current	100 A
Ready delay t _v max.	20 ms
Residual current I _r max.	80 µA
Ripple max. (% of U _e)	10 %
Switching frequency	150 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 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)	675 a
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Inductive Sensors
BES R01ZC-PAC70B-BP03
Order Code: BES01W4



General data

Approval/Conformity	CE
	cULus
	EAC
	WEEE
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	for flush mounting
Size	32x20x8

Output/Interface

Switching output	PNP normally open/normally closed (NO/NC)
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Range/Distance

Assured operating distance Sa	5.6 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	7 mm
Real switching distance sr	7 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.
LED yellow: Function
LED green: Power
For further information about the 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.

Wiring Diagrams

