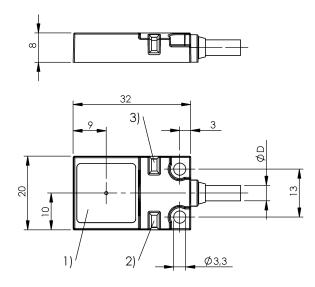
Inductive Sensors BES R01ZC-PAC70B-BP03 Order Code: BES01W4

BALLUFF



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



Basic features

Approval/Conformity	CE
	UKCA
	cULus
	WEEE
Basic standard	IEC 60947-5-2
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 Ue	1 μF		
Min. operating current Im	0 mA		
No-load current Io max., damped	15 mA		
No-load current Io max., undamped	15 mA		
Operating voltage Ub	1030 VDC		
Output resistance Ra	33.0 kOhm + D		
Rated insulation voltage Ui	75 V DC		
Rated operating current le	200 mA		
Rated operating voltage Ue DC	24 V		
Rated short circuit current	100 A		
Ready delay tv max.	20 ms		
Residual current Ir max.	80 μΑ		
Ripple max. (% of Ue)	10 %		
Switching frequency	150 Hz		
Utilization category	DC -13		
Voltage drop static max.	2.5 V		

Environmental conditions

Ambient temperature	-2570 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 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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Interface		Mechanical data	
Switching output Material	PNP normally open/normally closed (NO/NC)	Dimension Installation Size	32 x 20 x 8 mm for flush mounting 32x20x8
Housing material	Zinc, Die casting	Range/Distance	
Material jacket	PUR	Assured operating distance Sa	5.6 mm
Material sensing surface	PA 12	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 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.

Wiring Diagrams (Schematic)

