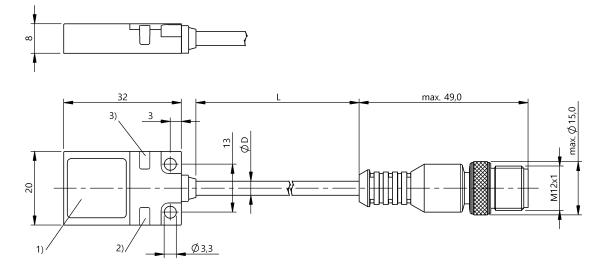
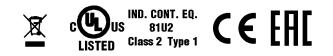
# Inductive Sensors BES R01ZC-PAC70B-BP00.2-GS04 Order Code: BES01W2

BALLUFF



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



yes yes

## **Display/Operation**

Function indicator	
Power indicator	

## **Electrical connection**

Cable diameter D	3.80 mm
Cable length L	0.2 m
Connection	M12x1-Male, 4-pin, A-coded
Connection type	Cable with connector, 0.20 m,
	PUR
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 lo max., damped	15 mA
No-load current lo 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 µA
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 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

eCl@ss 9.1: 27-27-01-01 ETIM 6.0: EC002714 BES01W2\_0.3\_2019-11-02

# Inductive Sensors BES R01ZC-PAC70B-BP00.2-GS04 Order Code: BES01W2



#### **General data Output/Interface** Approval/Conformity CE Switching output PNP normally open/normally cULus closed (NO/NC) EAC WEEE Range/Distance Basic standard IEC 60947-5-2 Assured operating distance Sa 5.6 mm Hysteresis H max. (% of Sr) 15.0 % Material Rated operating distance Sn 7 mm Housing material Zinc, Die casting Real switching distance sr 7 mm Material jacket PUR Repeat accuracy max. (% of Sr) 5.0 % Material sensing surface PA 12 Temperature drift max. (% of Sr) 10 % Tolerance Sr ±10 % Mechanical data Dimension 32 x 20 x 8 mm Installation for flush mounting 32x20x8 Size

#### 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.

# **Connector Drawings**



# **Wiring Diagrams**

