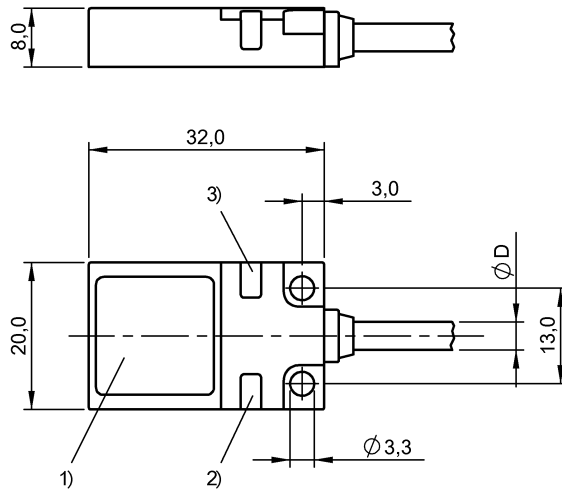


## BES R01ZC-PSC50B-BZ05-W05 BES0483



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	5 m
Conductor cross-section	0.25 mm <sup>2</sup>
Connection type	Cable, 5.00 m, TPU
Number of conductors	3
Polarity reversal protected	yes
Short-circuit protection	yes

### Electrical data

Hysteresis H max. (% of Sr)	15.0 %
Load capacitance max. at Ue	1 µF
Magnetic field strength, interference field	100 kA/m
MTTF (40 °C)	880 a
No-load current I <sub>o</sub> max., undamped	15 mA
Operating voltage U <sub>b</sub>	10...30 VDC
Output resistance R <sub>a</sub>	33.0 kOhm + D
Pollution degree	3
Protected against miswiring	yes
Rated insulation voltage U <sub>i</sub>	75 V DC
Rated operating current I <sub>e</sub> DC	200 mA
Rated operating voltage U <sub>e</sub> DC	24 V
Rated short circuit current	100 A
Ready delay t <sub>v</sub> max.	20 ms
Repeat accuracy max. (% of Sr)	5.0 %
Residual current I <sub>r</sub> max.	80 µA
Switching frequency	100 Hz

Utilization category	DC -13
Voltage drop static max.	2.5 V

### Environmental conditions

Ambient temperature	-25...70 °C
Magnetic field immune	magnetic field immune (AC/DC)
Protection type IEC 60529	IP67

### Functional safety

Diagnostic coverage	0 %
Functional safety	no
Mission Time	20 a

### General data

Additional features	Housing resistant to weld splatter
Approval/Conformity	CE cULus EAC
Basic standard	IEC 60947-5-2

### Material

Housing material	Zinc, Die casting
Material jacket	TPU

### Mechanical data

Dimension	32 x 20 x 8 mm
Installation	for flush mounting

## BES R01ZC-PSC50B-BZ05-W05 BES0483

### Output/Interface

Switching output PNP Normally open (NO)

### Range/Distance

Assured operating distance Sa	4 mm
Range	5 mm
Rated operating distance Sn	5 mm
Ripple max. (% of Ue)	10 %

Temperature drift max. (% of Sr) 10 %

### Remarks

LED yellow: Function  
LED green: Power

The sensor is functional again after the overload has been eliminated.

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.

### Wiring Diagram

