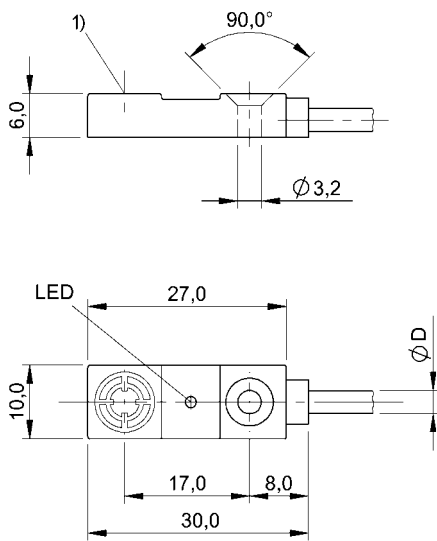


Inductive Sensors
BES R03KC-PSC30B-EP05
Order Code: BES01WT



1) Sensing surface



Basic features

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

Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Cable diameter D	3.00 mm
Cable length L	5 m
Conductor cross-section	0.14 mm ²
Connection type	Cable, 5.00 m, TPU
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at U _e	0.2 µF
No-load current I _o max., damped	10 mA
No-load current I _o max., undamped	3 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	Open collector
Rated insulation voltage U _i	75 V DC
Rated operating current I _e	100 mA
Rated operating voltage U _e DC	24 V
Rated short circuit current	100 A
Ready delay t _v max.	15 ms
Residual current I _r max.	1 µA
Ripple max. (% of U _e)	15 %
Switching frequency	3000 Hz
Utilization category	DC -12
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 g _n , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67

Functional safety

MTTF (40 °C)	830 a
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Interface

Switching output PNP normally open (NO)

Material

Housing material PA 6, GF30
Material jacket TPU
Material sensing surface PA 6, GF30/black

Mechanical data

Dimension 30 x 10 x 6 mm
Installation for flush mounting
Size 30x10x6

Range/Distance

Assured operating distance Sa 2.4 mm
Hysteresis H max. (% of Sr) 15.0 %
Rated operating distance Sn 3 mm
Real switching distance sr 3 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.
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

