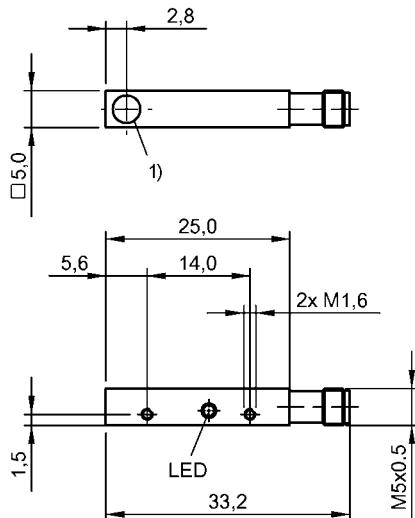


Inductive Sensors
BES Q05AC-PSC15B-S26G
Order Code: BES01RP

BALLUFF



1) Sensing surface



Basic features

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

Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Connection	M5x0,5-Male
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	0.2 μ F
Min. operating current I _m	1 mA
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.	50 μ A
Ripple max. (% of U _e)	10 %
Switching frequency	2000 Hz
Utilization category	DC-13
Voltage drop static max.	3 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 1.4305 stainless steel

Material sensing surface PBT

Mechanical data

Dimension 33 x 5 x 5 mm

Installation for flush mounting

Size 5x5

Range/Distance

Assured operating distance Sa 1.2 mm

Hysteresis H max. (% of Sr) 15.0 %

Rated operating distance Sn 1.5 mm

Real switching distance sr 1.5 mm

Repeat accuracy max. (% of Sr) 10.0 %

Temperature drift max. (% of Sr) 20 %

Tolerance Sr ±10 %

Remarks

ESD requirements met if housing is grounded.

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.

Connector Drawings



Wiring Diagrams

