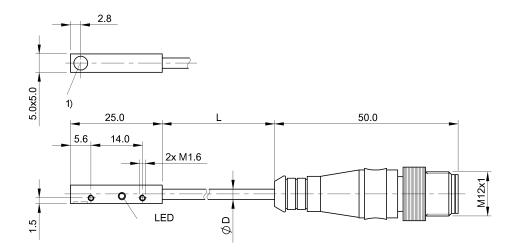
BES Q05AC-PSC15B-EP00,3-GS04 Order Code: BES04FH

BALLUFF



1) Sensing surface



Basic	features
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Approval/Conformity cULus
CE
EAC
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 0.3 m

Connection M12x1-Male, 4-pin, A-coded

Connection type Cable with connector, 0.30 m, PUR

Polarity reversal protected yes

Protection against device mix-ups yes

Short-circuit protection yes

Electrical data

Load capacitance max. at Ue $0.2~\mu\text{F}$ Min. operating current Im 1 mA No-load current lo max., damped 10 mA No-load current lo max., undamped 3 mA Operating voltage Ub 10...30 VDC Output resistance Ra Open collector 75 V DC Rated insulation voltage Ui Rated operating current le 100 mA Rated operating voltage Ue DC 24 V Rated short circuit current 100 A Ready delay tv max. 15 ms Residual current Ir max. 50 μΑ Ripple max. (% of Ue) 10 % Switching frequency 2000 Hz DC -13 **Utilization category** 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

Inductive Sensors

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Interface

Switching output PNP normally open (NO)

Material

Housing materialStainless steel (1.4305)Material jacketPURMaterial sensing surfacePBT

Mechanical data

Dimension25 x 5 x 5 mmInstallationfor flush mountingSize5x5

Range/Distance

Assured operating distance Sa Hysteresis H max. (% of Sr) Rated operating distance Sn Real switching distance sr Repeat accuracy max. (% of Sr) Switching distance marking Temperature drift max. (% of Sr) Tolerance Sr 1.2 mm 15.0 % 1.5 mm 1.5 mm 10.0 % 10.0 % 10.0 % 10.0 %

Remarks

EMC: EMC protection circuit required, see 825345. IVW: 2.2

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

