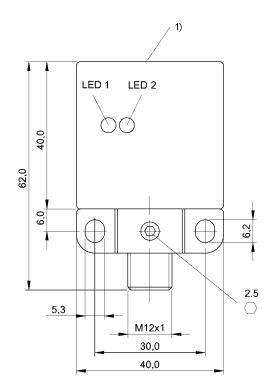
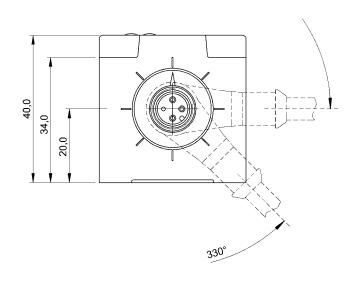
BES Q40KFU-PSC15A-S04G-W01 Order Code: BES021T

BYLLUFF





1) Sensing surface











Basic features

Additional features	Factor 1 Weld immune
Approval/Conformity	CE UKCA cULus WEEE
Basic standard	IEC 60947-5-2
Trademark	Factor 1
Display/Operation	
Function indicator	yes
Power indicator	yes
Electrical connection	
Connection	M12x1-Male, 4-pin, A-coded
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

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Load capacitance max. at Ue	1 μF
Magnetic field strength, interference field	100 kA/m
Min. operating current Im	0 mA
No-load current lo max., damped	20 mA
No-load current lo max., undamped	15 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	33.0 kOhm + D
Protection class	II
Rated insulation voltage Ui	250 V AC
Rated operating current le	200 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	30 ms
Residual current Ir max.	80 μΑ
Ripple max. (% of Ue)	15 %
Switching frequency	400 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

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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 Magnetic field immune magnetic field immune (AC/DC) Functional safety MTTF (40 °C) 520 a Interface Switching output PNP normally open (NO)

Material

Housing material PBT, partly coated Material sensing surface ceramic coated

Mechanical data

Dimension 40 x 40 x 62 mm Installation for flush mounting

40x40 Size

Range/Distance

Assured operating distance Sa 11.9 mm 15.0 % Hysteresis H max. (% of Sr) Rated operating distance Sn 15 mm Real switching distance sr 15 mm Repeat accuracy max. (% of Sr) 5.0 % Temperature drift max. (% of Sr) 10 % Tolerance Sr ±10 %

Remarks

LED 1: Function

LED 2: Operating voltage

Switching distance and tolerance data apply to the sensing surface location shown.

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

Sn: reduced by the coating thickness of 0.3 mm.

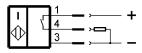
For more information about MTTF and B10d see MTTF / B10d Certificate

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



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