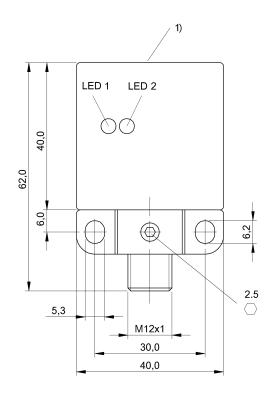
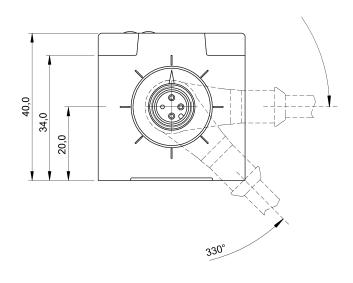
BES Q40KFU-PSC15A-S04G Order Code: BES021P

BALLUFF





1) Sensing surface











Basic features

Additional features	Factor 1
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

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

Material

Housing material PBT Material sensing surface PBT

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

Interface

Switching output

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

PNP normally open (NO)

Sn: reduced by the coating thickness of 0.3 mm.

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

LED 1: Function

LED 2: Operating voltage

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.

Subject to change without notice: 258798

Connector Drawings



Wiring Diagrams (Schematic)

