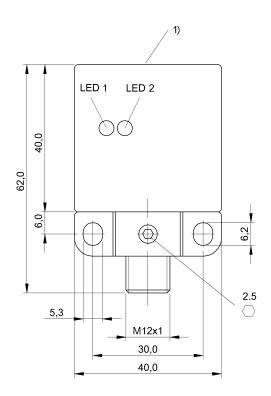
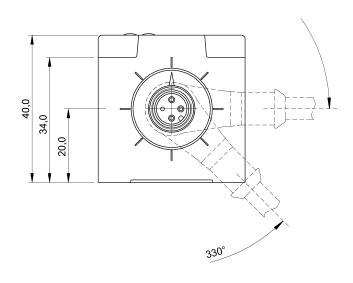
BES Q40KFU-PAC40E-S04G Order Code: BES021M

BALLUFF





1) Sensing surface





M12x1-Male, 4-pin, A-coded

Basic features

Additional features	Factor 1
Approval/Conformity	CE
	cULus
	EAC
	WEEE
Basic standard	IEC 60947-5-2
Trademark	Factor 1

Function indicator

yes Power indicator yes

Electrical connection

Connection

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	100 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

BES Q40KFU-PAC40E-S04G Order Code: BES021M



Environmental conditions

Ambient temperature -10...70 °C

Contamination scale 3

EN 60068-2-27, Shock Half-sinus, 30 gn, 11 ms **EN 60068-2-6, Vibration** 55 Hz, amplitude 1 mm, 3x30 min

 Magnetic field immune
 magnetic field immune (AC/DC)

 Protection degree
 IP67

otection degree IP6

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
 non-flush

 Size
 40x40

Output/Interface

Switching output PNP normally open/normally

closed (NO/NC)

Range/Distance

Assured operating distance Sa 32.4 mm Hysteresis H max. (% of Sr) 15.0 % Rated operating distance Sn 40 mm Real switching distance sr 40 mm Repeat accuracy max. (% of Sr) 5.0 % Switching distance marking 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.

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

