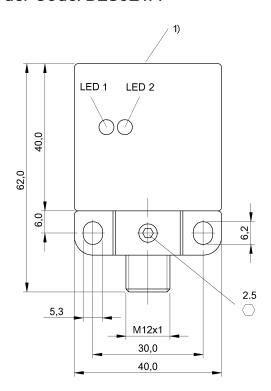
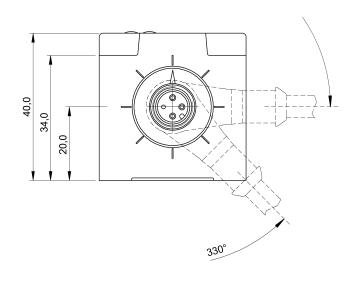
# BES Q40KFU-PAC25E-S04G Order Code: BES021A

# **BALLUFF**





## 1) Sensing surface











## Basic features

Factor 1
cULus
CE
UKCA
WEEE
IEC 60947-5-2
Factor 1
yes
yes
M12x1-Male, 4-pin, A-coded
yes
yes
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	250 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

# BES Q40KFU-PAC25E-S04G Order Code: BES021A



#### Environmental conditions

Ambient temperature -25...70 °C Contamination scale 3 EN 60068-2-27, Shock Half-sinus, 30 g<sub>n</sub>, 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/normally

#### Material

Housing material PBT Material sensing surface PBT

### Mechanical data

Dimension 40 x 40 x 62 mm Installation non-flush 40x40 Size

#### Range/Distance

Assured operating distance Sa 2.2 mm 15.0 % Hysteresis H max. (% of Sr) Rated operating distance Sn 25 mm Real switching distance sr 25 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.

closed (NO/NC)

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.

Subject to change without notice: 258796

## **Connector Drawings**



# Wiring Diagrams (Schematic)

