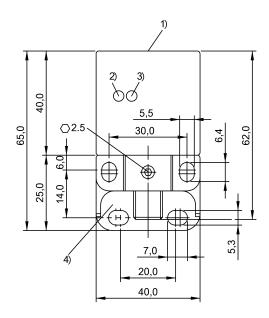
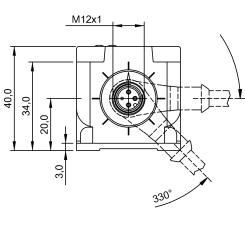
BES Q40KHU-PAC20B-S04G Order Code: BES03PN







1) Sensing surface, 2) LED function indicator, 3) LED Power, 4) Metal











Basic features

Approval/Conformity	CE cULus EAC WEEE
Basic standard	IEC 60947-5-2
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
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	50 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

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Environmental conditions

-25...70 °C Ambient temperature 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

Protection degree IP67

Functional safety

MTTF (40 °C) 455 a

Material

Housing material Zinc, Die casting PBT

Material sensing surface PBT Mechanical data

Dimension 40 x 40 x 65 mm Installation for flush mounting

Size 40x40 **Tightening torque** 40 Nm

Output/Interface

Switching output PNP normally open/normally

closed (NO/NC)

Range/Distance

Assured operating distance Sa 16 mm Hysteresis H max. (% of Sr) 15.0 % Rated operating distance Sn 20 mm Real switching distance sr 20 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

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: 256639

Connector Drawings



Wiring Diagrams

