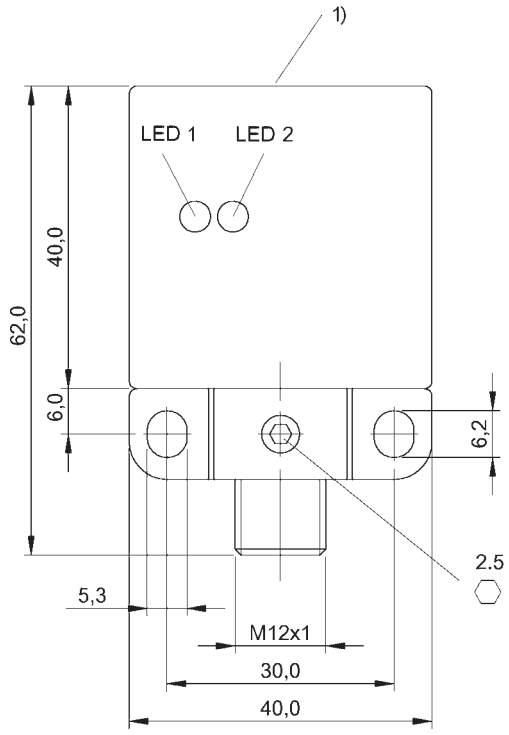
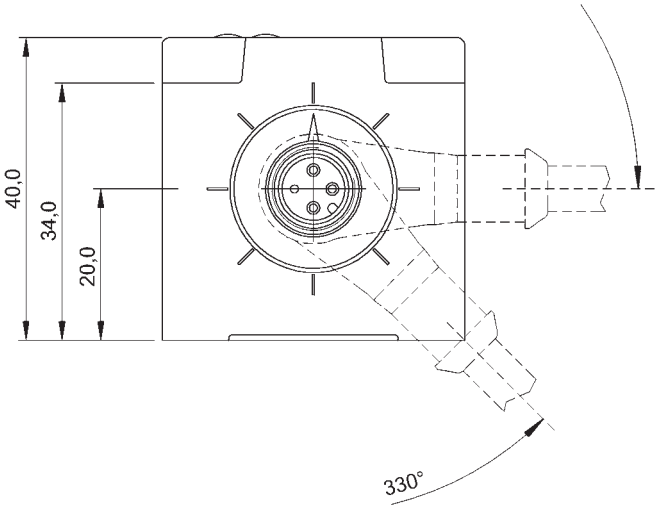
Inductive sensor

BES Q40KFU-PAC15A-S04G
BES022K





1) Active surface

- **PNP**
- **NO/NC**
- **15.00 mm**
- **Flush (shielded)**
- **Connector, M12x1-S04**

General attributes

Additional features	Factor 1
Approvals / Conformity	cULus CE EAC
Basic standard	IEC 60947-5-2
Enclosure Type per IEC 60529	IP67
Function indicator	Yes
Magnetic field immune	immune to magnetic DC and AC fields
Polarity reversal protected	Yes
Power indicator	Yes
Protection Class	II
Short circuit protected	Yes
Trademark	Factor 1
MTTF (40°C)	520 a

Electrical attributes

Connection type	Connector
Eff. operating current Ie	200 mA
Eff. operating voltage Ue DC	24.0 V
Electrical version	DC, direct current
Load capacitance max. (at Ue)	1.000 µF
Magnetic field strength	100 kA/m
Max. no-load cur. Io undamped	15.0 mA
Minimum operating current Im	0 mA
No-load current Io damped max.	20.0 mA
Operating voltage UB max. DC [V]	30.0 V
Operating voltage UB min. DC [V]	10.0 V
Rated insulation voltage Ui	250 VAC
Rated short circuit current	100 A
Ripple max. (% of Ue)	15 %
Switching freq. f max. (at Ue)	400 Hz
Switching function	NO/NC
Switching output	PNP
Voltage drop static max.	2.5 V

Mechanical attributes

Ambient temperature Ta max.	70 °C
Ambient temperature Ta min.	-25 °C
Assured operating distance Sa	12.20 mm
Connector type	M12x1-S04
Depth	62.0 mm
Eff. operating distance Sr	15.00 mm
Height (small side)	40.0 mm
Housing material	PBT
Mech. installation condition	Flush (shielded)
Rated operating distance Sn [mm]	15.00 mm
Sensing face material	PBT
Width (long side)	40.0 mm

Remarks

LED 1: Function; LED 2: Operating voltage
Switching distance specifications and tolerance apply to the shown location of the active surface.
The sensor is functional again after the overload has been eliminated.

For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

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