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Inductive proximity sensors
Cylindrical threaded housing, IM12

IM12-02BNS-ZUK

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Cylindrical threaded housing, IM12

Model Name > IM12-02BNS-ZUK
Part No. > 1017438

At a glance

- Size M12
- IP 67 enclosure rating
- Operating temperature from -25° C to +75° C

Your benefits

- Reduced machine downtime
- Reduced mechanical damage
- Fewer maintenance costs due to longer service life
- High resistance to shock and vibrations

Features

Housing:	Cylindrical
Thread size:	M12 x 1
Sensing range Sn:	2 mm
Installation type:	Flush
Switching frequency:	2,000 Hz
Output type:	NPN
Output function:	NO
Electrical wiring:	DC 3-wire
Enclosure rating:	IP 67 [1)]
Connection type:	Cable, 3-wire, 2 m
Housing:	Short-body

[1)] According to EN 60529

Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC
Ripple:	≤ 10 % [1)]
Voltage drop:	≤ 1.5 V [2)]
Power consumption:	≤ 10 mA [3)]
Time delay before availability:	≤ 2 ms
Hysteresis:	1 % ... 10 %
Repeatability::	≤ 1 % [4) 5)]
Temperature drift (% of Sr):	± 10 %
EMC:	According to EN 60947-5-2
Output current Ia:	≤ 300 mA

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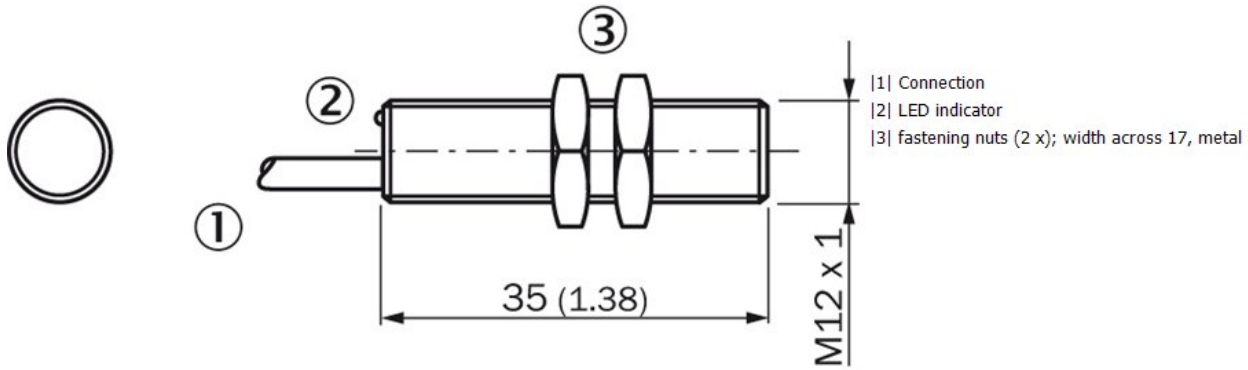
Cable material:	PUR/PVC
Conductor cross-section:	0.25 mm²
Wire-break protection:	1
Short-circuit protection:	✓
Reverse polarity protection:	✓
Power-up pulse protection:	✓
Shock/vibration:	30 g, 11 ms／10 ... 55 Hz, 1 mm
Ambient operating temperature:	-25 °C ... 75 °C
Housing material:	Metal, Nickel-plated brass
Housing cap material:	Plastic
Housing length:	35 mm
Thread length:	35 mm
Tightening torque, max.:	7 Nm

[1] Of V_S [2] At I_a max [3] Without load [4] Ub and Ta constant [5] Of Sr

Installation note

A:	6 mm
B:	12 mm
C:	12 mm
D:	6 mm
E:	0 mm
F:	16 mm
Remark:	Associated graphic see "Installation"

Dimensional drawing



All dimensions in mm (inch)

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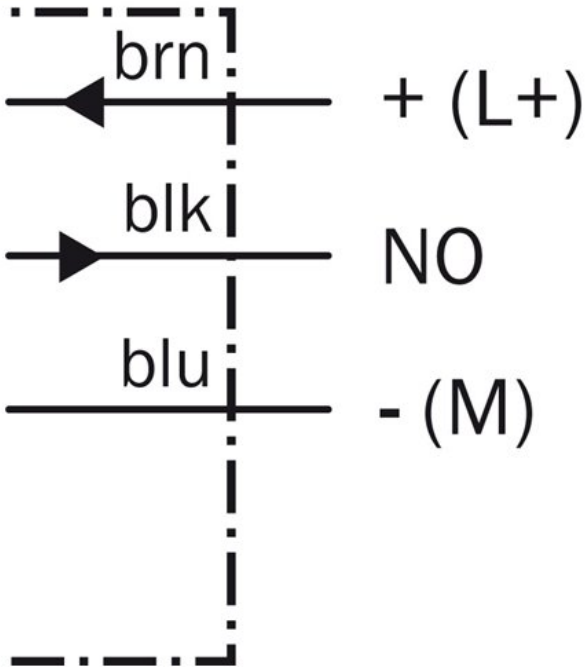
Connection diagram



Connection type

· USmod 4c int40

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