



Inductive proximity sensors Cylindrical threaded housing, IM12

IM12-04NNS-ZUK



Model Name > [IM12-04NNS-ZUK](#)
Part No. > [1017439](#)



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 S_n :	4 mm
Installation type:	Non-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:	$\leq 10\%$ ¹⁾
Voltage drop:	$\leq 1.5\text{ V}$ ²⁾
Power consumption:	$\leq 10\text{ mA}$ ³⁾
Time delay before availability:	$\leq 2\text{ ms}$
Hysteresis:	1 % ... 10 %
Repeatability:	$\leq 1\%$ ^{4) 5)}
Temperature drift (% of S_r):	$\pm 10\%$
EMC:	According to EN 60947-5-2
Output current I_a :	$\leq 300\text{ mA}$

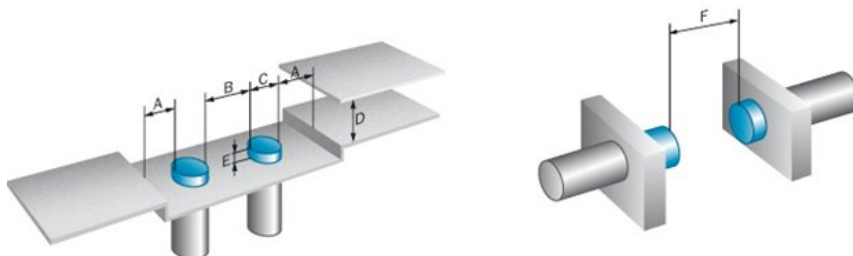
Cable material:	PUR/PVC
Conductor cross-section:	0.25 mm ²
Wire-break protection:	1
Short-circuit protection:	✓
Reverse polarity protection:	✓
Power-up pulse protection:	✓
Shock/vibration:	30 g, 11 ms/10 ... 55 Hz, 1 mm
Ambient operating temperature:	-25 °C ... 75 °C
Housing material:	Metal, Nickel-plated brass
Housing cap material:	Plastic
Housing length:	35 mm
Thread length:	30 mm
Tightening torque, max.:	7 Nm

1) Of V_S 2) At I_a max 3) Without load 4) U_b and T_a constant 5) Of S_r

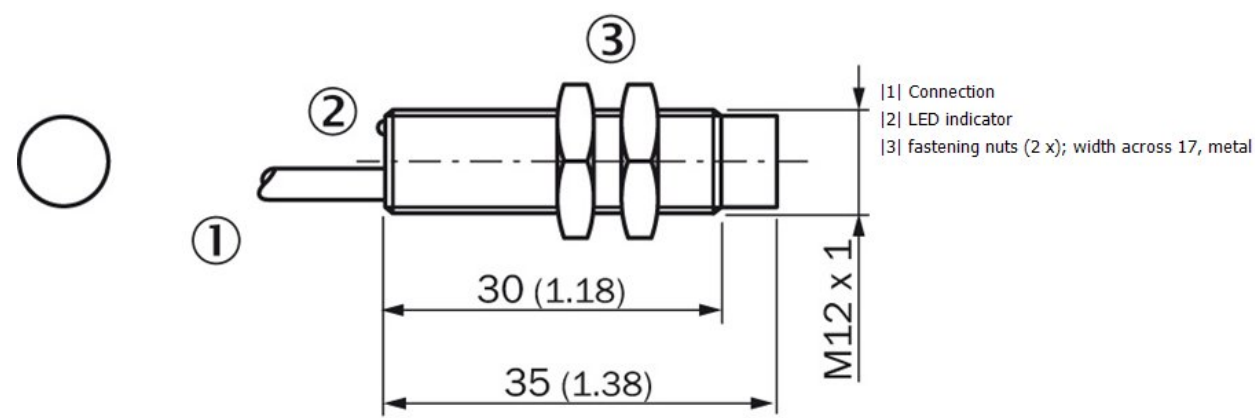
Installation note

A:	12 mm
B:	24 mm
C:	12 mm
D:	12 mm
E:	8 mm
F:	32 mm
Remark:	Associated graphic see "Installation"

Installation note

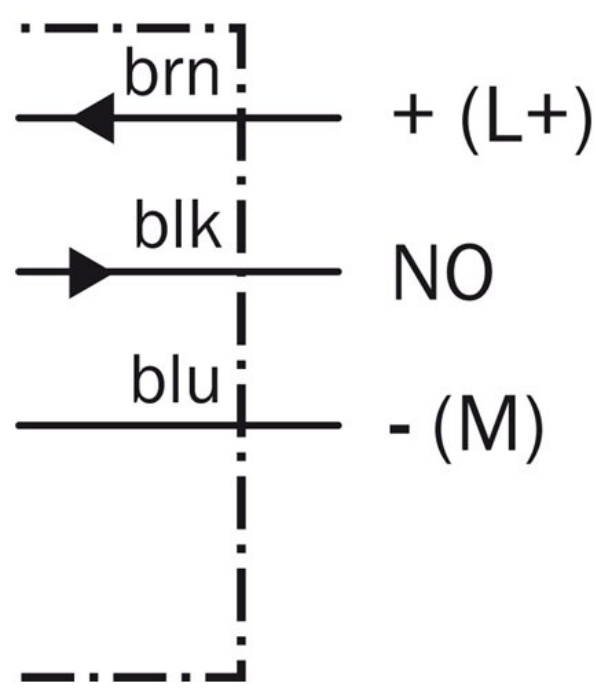


Dimensional drawing

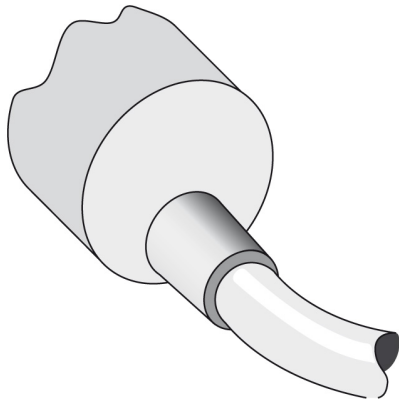


All dimensions in mm (inch)

Connection diagram



Connection type



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