



Inductive proximity sensors Cylindrical threaded housing, IM12

IM12-04NCP-ZW1



Model Name > IM12-04NCP-ZW1
Part No. > 7902929



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

Design:	Cylindrical
Thread size:	M12 x 1
Sensing range Sn:	4 mm
Assured sensing range Sa:	3.24 mm
Installation type:	Non-flush
Switching frequency:	1,000 Hz
Output type:	PNP or NPN
Output function:	NC or NO
Electrical wiring:	DC 4-wire
Enclosure rating:	IP 67 ¹⁾
Electrical connection:	Cable, 4-wire, 2 m
Housing:	Standard
Output characteristic:	Wire configurable

¹⁾ According to EN 60529

Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC
Residual ripple:	≤ 10 % ¹⁾
Voltage drop:	≤ 1.2 V ²⁾
Power consumption:	≤ 30 mA ³⁾
Time delay before availability:	≤ 250 ms
Hysteresis:	2 % ... 10 %
Repeatability:	≤ 5 % ⁴⁾ ⁵⁾
Temperature drift (of Sr):	± 10 %

EMC:	According to EN 60947-5-2
Output current I_a :	$\leq 100 \text{ mA}$
Cable material:	PVC
Conductor cross-section:	0.22 mm^2
Wire-break protection:	0
Short-circuit protection:	✓
Reverse polarity protection:	✓
Power-up pulse protection:	✓
Shock and vibration resistance:	30 g, 11 ms/10 ... 55 Hz, 1 mm
Ambient temperature operation:	$-25 \text{ }^\circ\text{C} \dots 70 \text{ }^\circ\text{C}$
Housing material:	Metal, Nickel-plated brass
Housing cap material:	Plastic
Housing length:	60 mm
Thread length:	45 mm
Tightening torque, max.:	10 Nm

¹⁾ Of V_S ²⁾ At $I_{a \text{ max}}$ ³⁾ Without load ⁴⁾ U_b and T_a constant ⁵⁾ Of S_r

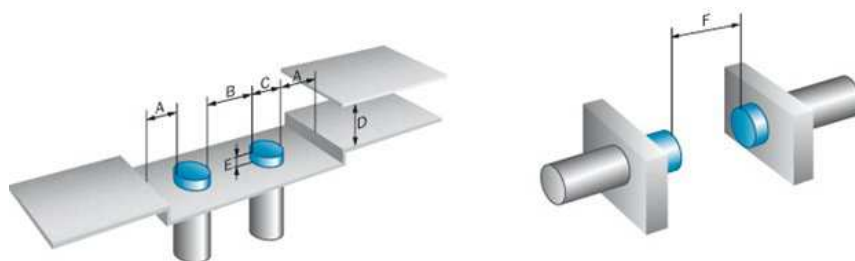
Reduction factors

Note:	The values are reference values which may vary
Stainless steel (V2A, 304):	Ca. 0.8
Copper (Cu):	Ca. 0.4
Aluminum (Al):	Ca. 0.45

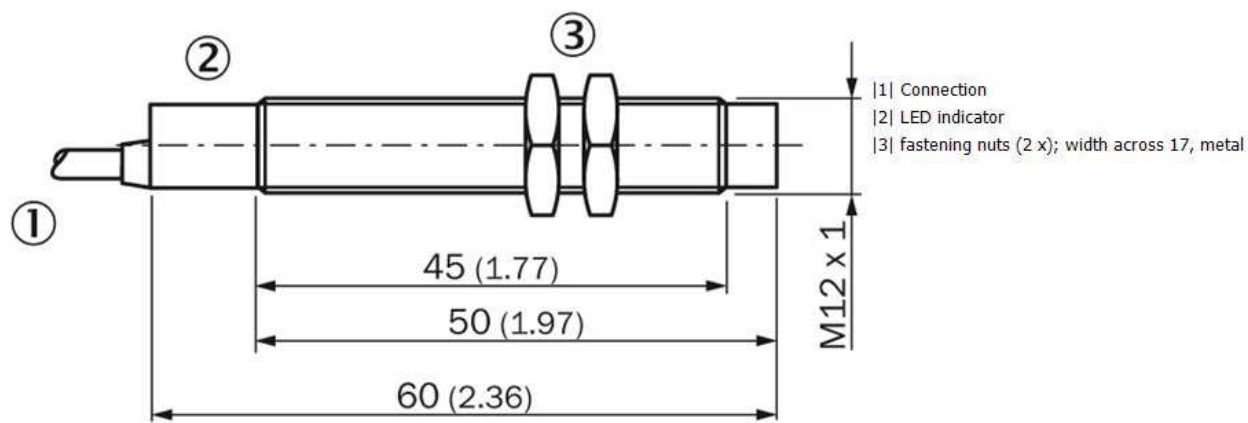
Installation note

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

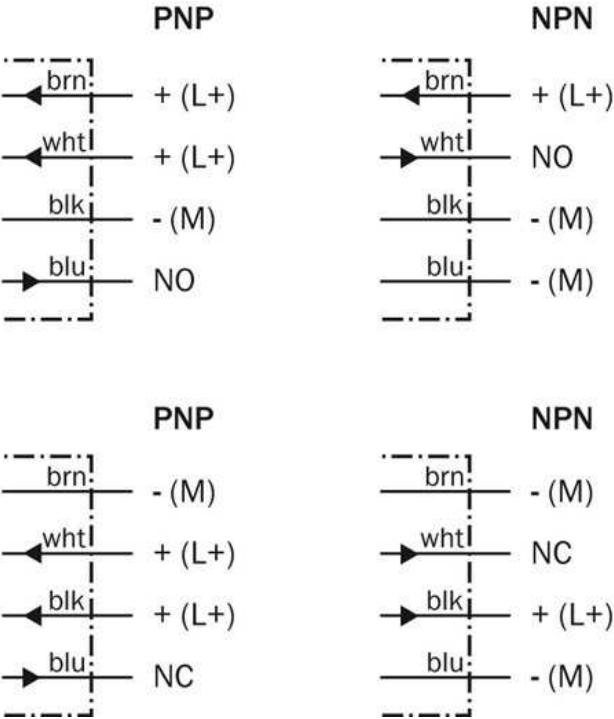


Dimensional drawing



All dimensions in mm (inch)

Connection diagram



Connection type



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