



Inductive proximity sensors Cylindrical threaded housing, IM30

IM30-20NNS-ZC1



Model Name > [IM30-20NNS-ZC1](#)
Part No. > [7900158](#)



At a glance

- Size M30
- IP 67 enclosure rating
- Operating temperature from -25° C to +70° 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:	M30 x 1.5
Sensing range S_n :	20 mm
Installation type:	Non-flush
Switching frequency:	150 Hz
Output type:	NPN
Output function:	NO
Electrical wiring:	DC 3-wire
Enclosure rating:	IP 67 ¹⁾
Connection type:	Connector M12, 4-pin
Housing:	Standard

¹⁾ According to EN 60529

Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC
Ripple:	$\leq 10\%$ ¹⁾
Voltage drop:	$\leq 1\text{ V}$ ²⁾
Power consumption:	$\leq 10\text{ mA}$ ³⁾
Time delay before availability:	$\leq 100\text{ ms}$
Hysteresis:	2 % ... 15 %
Repeatability:	$\leq 5\%$ ⁴⁾ ⁵⁾
Temperature drift (% of S_r):	$\pm 10\%$
EMC:	According to EN 60947-5-2
Output current I_a :	$\leq 400\text{ mA}$

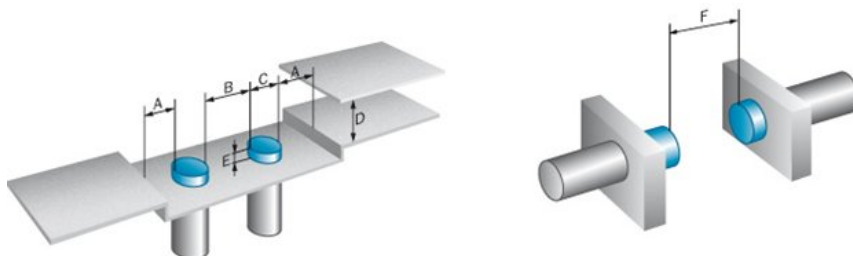
Wire-break protection:	0
Short-circuit protection:	✓
Reverse polarity protection:	✓
Power-up pulse protection:	✓
Shock/vibration:	30 g, 11 ms/10 ... 55 Hz, 1 mm
Ambient operating temperature:	-25 °C ... 70 °C
Housing material:	Metal, Nickel-plated brass
Housing cap material:	Plastic
Housing length:	76 mm
Thread length:	38 mm
Tightening torque, max.:	60 Nm

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

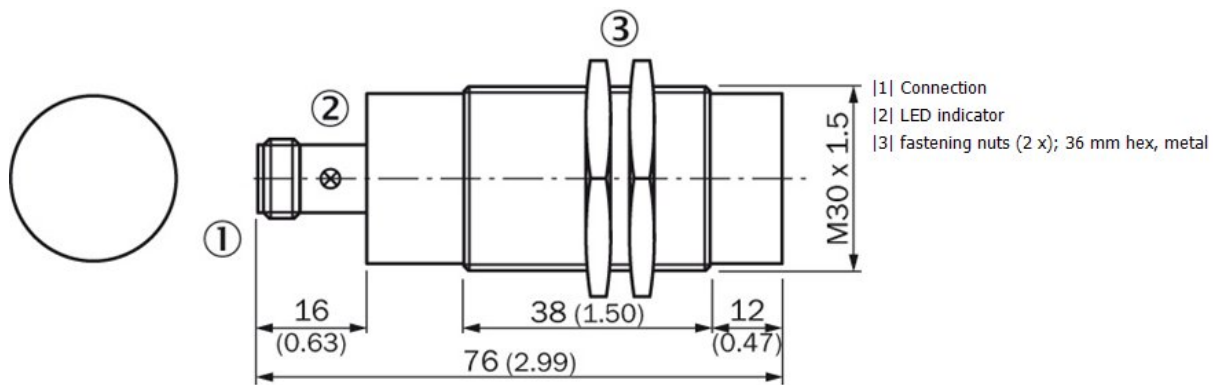
Installation note

A:	20 mm
B:	60 mm
C:	30 mm
D:	60 mm
E:	20 mm
F:	160 mm
Remark:	Associated graphic see "Installation"

Installation note

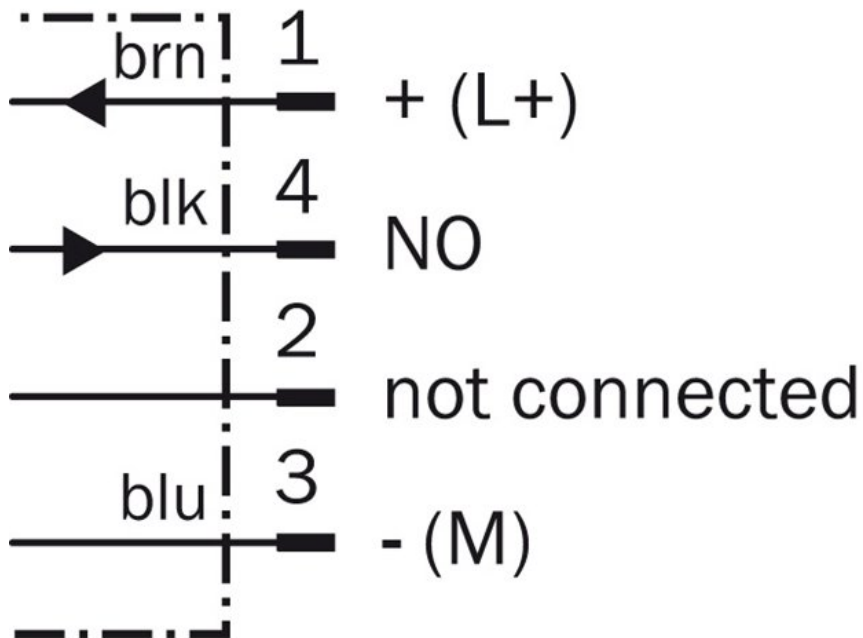


Dimensional drawing

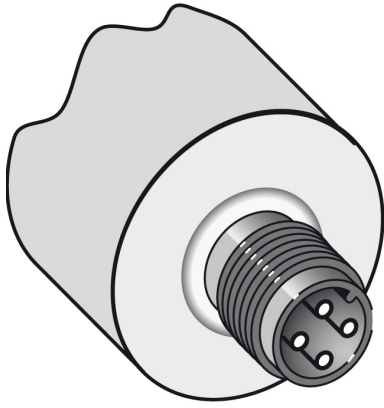


All dimensions in mm (inch)

Connection diagram



Connection type



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