



Inductive proximity sensors Cylindrical threaded housing, IM18

IM18-08NDS-ZW1



Model Name > [IM18-08NDS-ZW1](#)
Part No. > [6020322](#)



At a glance

- Size M18
- 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:	M18 x 1
Sensing range Sn:	8 mm
Assured sensing range Sa:	6.48 mm
Installation type:	Non-flush
Switching frequency:	300 Hz
Output function:	NO
Electrical wiring:	DC 2-wire
Enclosure rating:	IP 67 ¹⁾
Connection type:	Cable, 2-wire, 2 m
Housing:	Standard

¹⁾ According to EN 60529

Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC
Ripple:	≤ 10 %
Voltage drop:	≤ 2.8 V ¹⁾
Time delay before availability:	≤ 50 ms
Hysteresis:	2 % ... 10 %
Repeatability:	≤ 2 % ^{2) 3)}
Temperature drift (% of Sr):	± 10 %
EMC:	According to EN 60947-5-2
Output current I _a :	≤ 100 mA
Off-state current:	≤ 0.8 mA

Load resistance, min.:	≥ 3 mA
Cable material:	PVC
Conductor cross-section:	0.34 mm ²
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:	50 mm
Thread length:	32 mm
Tightening torque, max.:	30 Nm

1) At I_a max 2) Ub and Ta constant 3) Of Sr

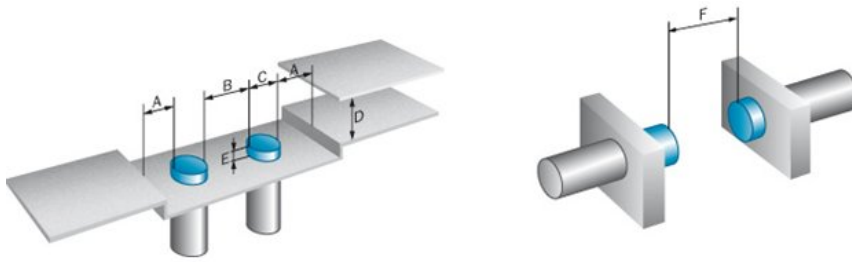
Reduction factors

Note:	The values are reference values which may vary
Stainless steel (V2A, 304):	Ca. 0.77
Copper (Cu):	Ca. 0.45
Aluminum (Al):	Ca. 0.53
Brass (Br):	Ca. 0.56

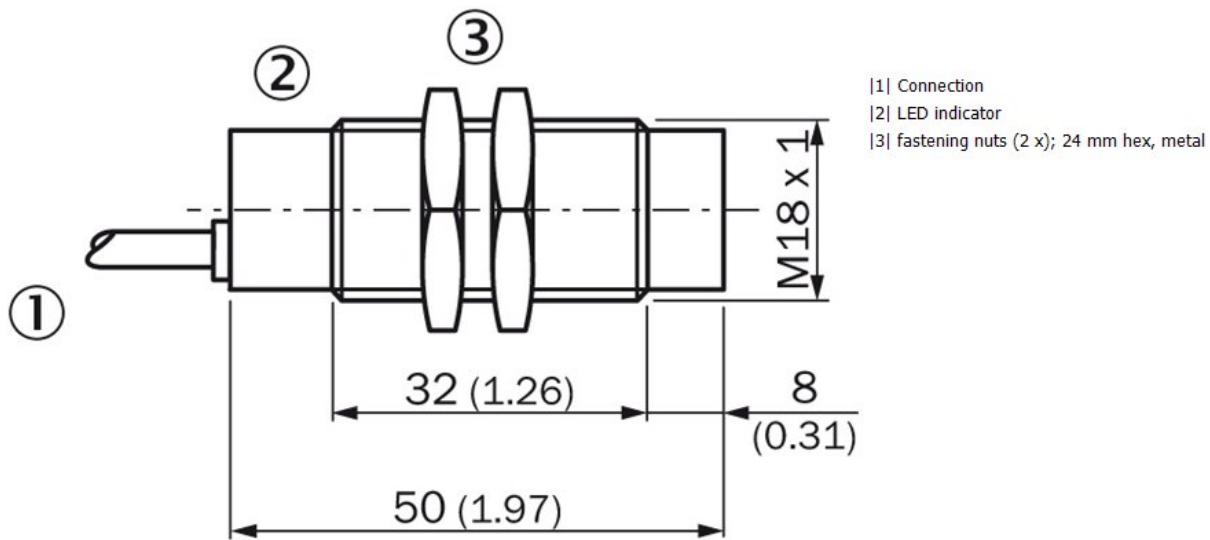
Installation note

A:	18 mm
B:	36 mm
C:	18 mm
D:	24 mm
E:	16 mm
F:	64 mm
Remark:	Associated graphic see "Installation"

Installation note

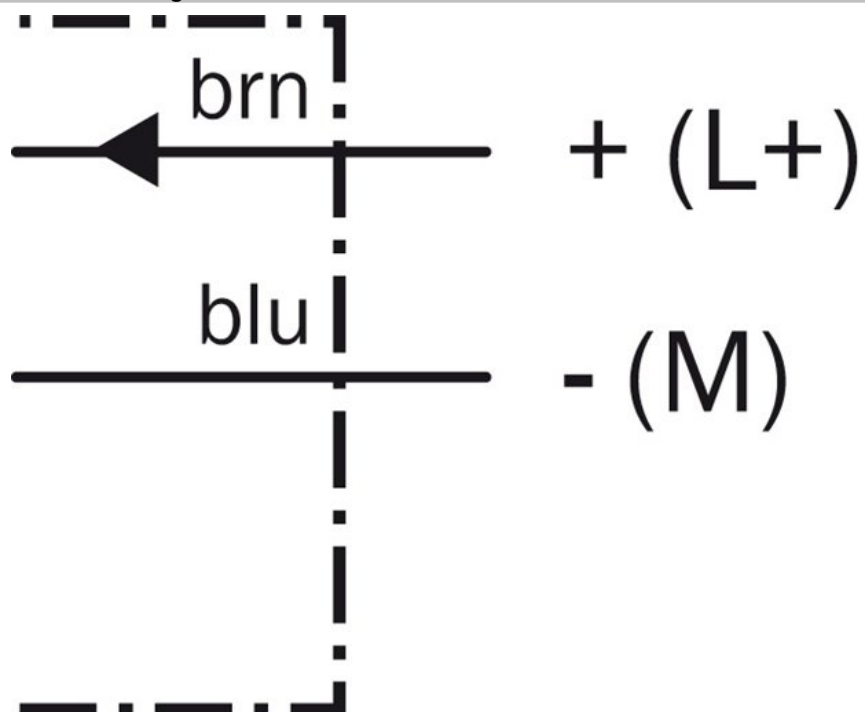


Dimensional drawing



All dimensions in mm (inch)

Connection diagram



Connection type



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