



Inductive proximity sensors
Cylindrical threaded housing, IM18

IM18-20NPS-ZWB



Model Name > **IM18-20NPS-ZWB**
Part No. > **6035726**



At a glance

- Triple operating distance up to 20 mm
- Operating temperature from -25 °C to +70 °C
- High switching frequencies
- Sizes M18

Your benefits

- Reduced machine downtime and maintenance costs
- Large operating reserve due to triple operating distance improves machine throughput - no missed targets
- Saves installation space on the machine. Less space required for the same operating distance when compared with standard sensors
- Lower risk of mechanical damage due their ability to be mounted further from the target
- High level of sensitivity makes them suitable for detecting difficult parts such as wires, thin sheets, small screws – reduces design and installation time



Features

Design:	Cylindrical
Thread size:	M18 x 1
Sensing range Sn:	20 mm
Installation type:	Non-flush
Switching frequency:	200 Hz
Output type:	PNP
Output function:	NO
Electrical wiring:	DC 3-wire
Enclosure rating:	IP 67 ¹⁾
Electrical connection:	Cable, 3-wire, 5 m
Housing:	Standard

¹⁾ According to EN 60529

Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC
Residual ripple:	≤ 20 % ¹⁾
Voltage drop:	≤ 2 V ²⁾
Power consumption:	≤ 10 mA ³⁾
Time delay before availability:	≤ 100 ms

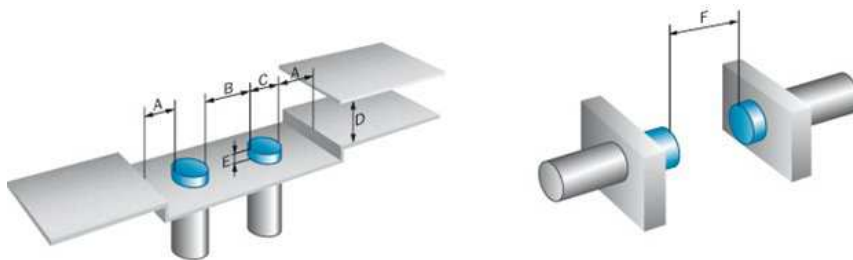
Hysteresis:	1 % ... 15 %
Repeatability:	$\leq 5\%$ ^{4) 5)}
Temperature drift (of Sr):	$\pm 10\%$
EMC:	According to EN 60947-5-2
Output current I _a :	$\leq 200\text{ mA}$
Cable material:	PVC
Conductor cross-section:	0.34 mm ²
Cable diameter:	5 mm
Short-circuit protection:	✓
Reverse polarity protection:	✓
Power-up pulse protection:	✓
Shock and vibration resistance:	30 g, 11 ms/10 ... 55 Hz, 1 mm
Ambient temperature operation:	-25 °C ... 70 °C
Housing material:	Metal, Chrome-plated brass
Housing cap material:	Plastic, PBTP
Housing length:	50 mm
Thread length:	40 mm
Tightening torque, max.:	25 Nm

1) Of V_S 2) At I_a max 3) Without load 4) Of Sr 5) UB = 20 V DC ... 30 V DC, TA = 23 °C ± 5 °C

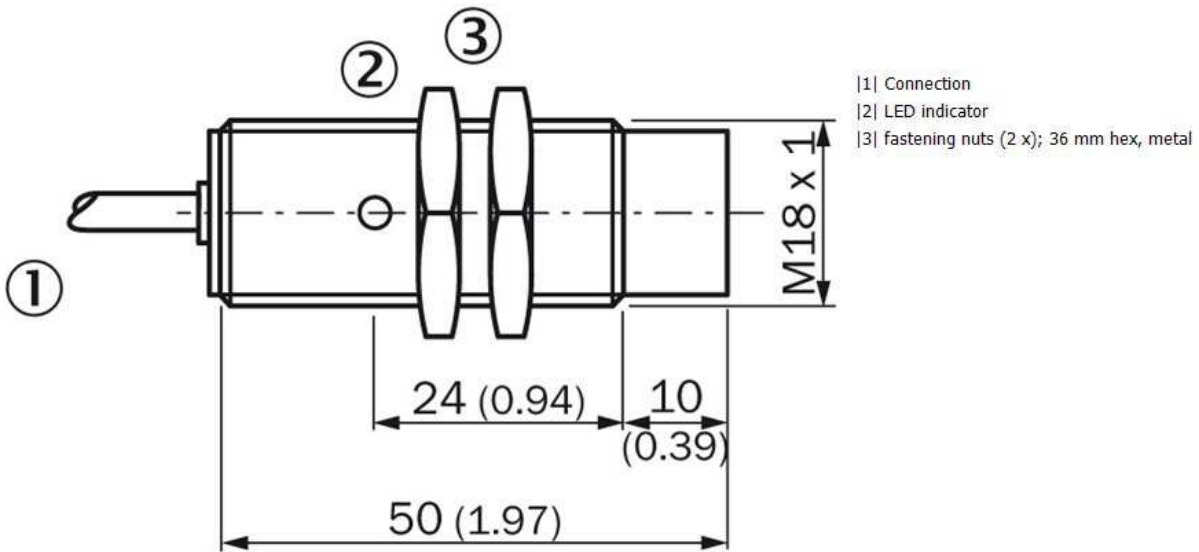
Installation note

Remark: Associated graphic see "Installation"

Installation note non-flush installation

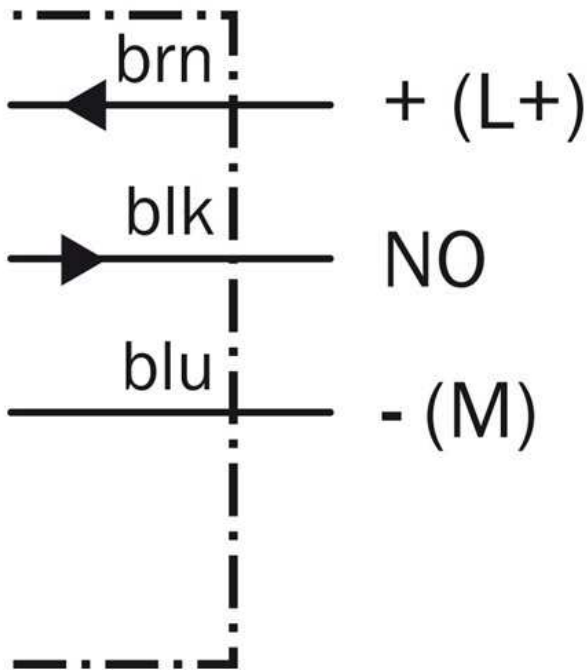


Dimensional drawing

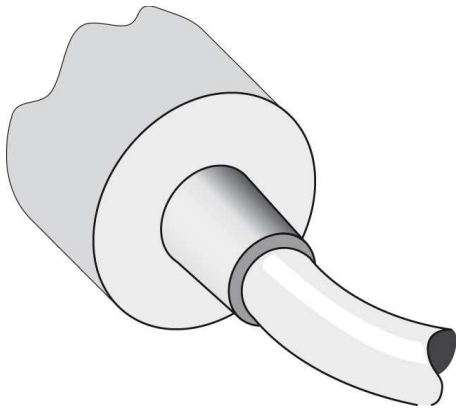


All dimensions in mm (inch)

Connection diagram



Connection type



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