



Inductive proximity sensors
Cylindrical threaded housing, IM18

IM18-05BCP-ZW1



Model Name > [IM18-05BCP-ZW1](#)
Part No. > [7902935](#)



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

Design:	Cylindrical
Thread size:	M18 x 1
Sensing range Sn:	5 mm
Assured sensing range Sa:	4.05 mm
Installation type:	Flush
Switching frequency:	300 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 %
Voltage drop:	≤ 1.2 V ¹⁾
Power consumption:	≤ 30 mA ²⁾
Time delay before availability:	≤ 200 ms
Hysteresis:	2 % ... 10 %
Repeatability:	≤ 5 % ^{3) 4)}
Temperature drift (of Sr):	± 10 %

EMC:	According to EN 60947-5-2
Output current I_a :	≤ 100 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 and vibration resistance:	30 g, 11 ms/10 ... 55 Hz, 1 mm
Ambient temperature operation:	-25 °C ... 70 °C
Housing material:	Metal, Nickel-plated brass
Housing cap material:	Plastic
Housing length:	60 mm
Thread length:	45 mm
Tightening torque, max.:	40 Nm

1) At I_a max 2) Without load 3) U_b and T_a constant 4) Of Sr

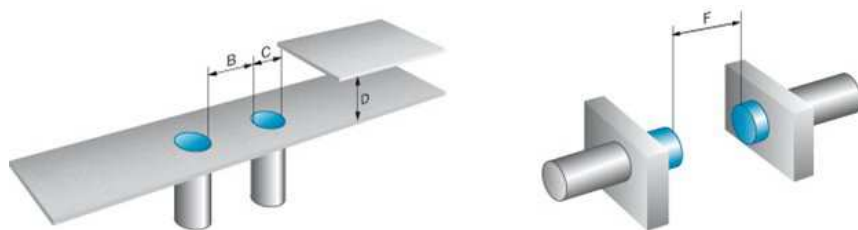
Reduction factors

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

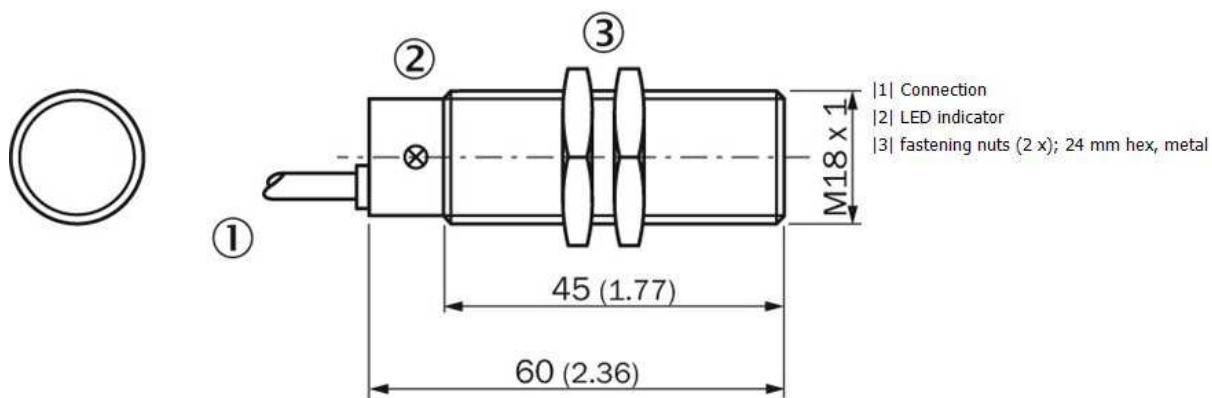
Installation note

A:	9 mm
B:	18 mm
C:	18 mm
D:	15 mm
E:	3.6 mm
F:	40 mm
Remark:	Associated graphic see "Installation"

Installation note

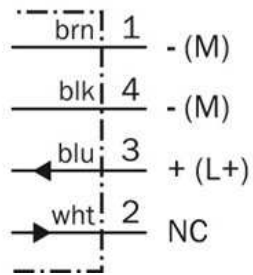
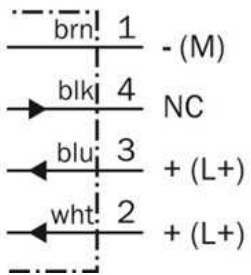
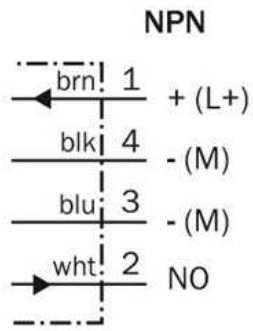
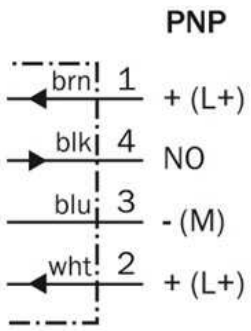


Dimensional drawing

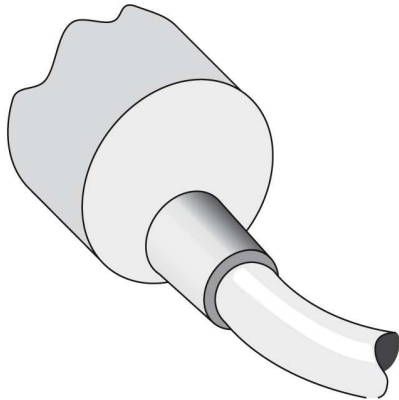


All dimensions in mm (inch)

Connection diagram



Connection type



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