



Inductive proximity sensors
Cylindrical threaded housing, IM08

IM08-03BPS-ZW1



Model Name > **IM08-03BPS-ZW1**
Part No. > **6027505**



At a glance

- Triple operating distance up to 6 mm
- Operating temperature from -25 °C to +70 °C
- High switching frequencies
- Sizes M8

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

Housing:	Cylindrical
Thread size:	M8 x 1
Sensing range Sn:	3 mm
Assured sensing range Sa:	2.43 mm
Installation type:	Quasi-flush ¹⁾
Switching frequency:	1,000 Hz
Output type:	PNP
Output function:	NO
Electrical wiring:	DC 3-wire
Enclosure rating:	IP 67 ²⁾
Connection type:	Cable, 3-wire, 2 m
Housing:	Standard

¹⁾ When installed in conductive materials, sensors must protrude by distance A (A = 1 mm) ²⁾ According to EN 60529

Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC
Ripple:	≤ 20 % ¹⁾
Voltage drop:	≤ 2 V ²⁾
Power consumption:	≤ 10 mA ³⁾

Time delay before availability:	≤ 50 ms
Hysteresis:	1 % ... 15 %
Repeatability::	≤ 5 % ^{4) 5)}
Temperature drift (% of Sr):	± 10 %
EMC:	According to EN 60947-5-2
Output current I _a :	≤ 200 mA
Cable material:	PVC
Conductor cross-section:	0.14 mm ²
Cable diameter:	3.5 mm
Short-circuit protection:	✓
Reverse polarity protection:	✓
Power-up pulse protection:	✓
Shock/vibration:	30 g, 11 ms/10 ... 55 Hz, 1 mm
Adjustment indicator:	-
Ambient operating temperature:	-25 °C ... 70 °C
Housing material:	Metal, Chrome-plated brass
Housing cap material:	Plastic, PBTP
Housing length:	45 mm
Thread length:	45 mm
Tightening torque, max.:	4 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 ⁶⁾ LED lights continuously (0 ≤ s ≤ 0.8 Sr); LED flashing (0.8 Sr < s ≤ Sr)

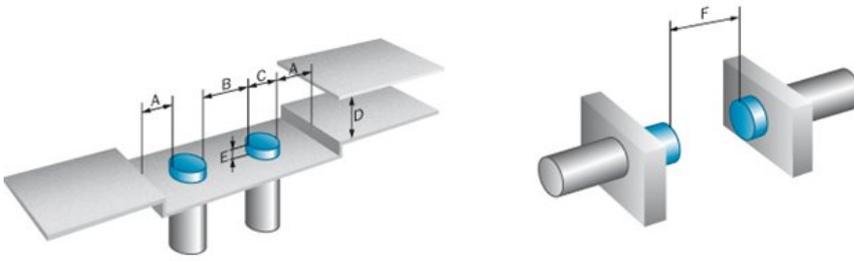
Reduction factors

Note:	The values are reference values which may vary
Copper (Cu):	Ca. 0.27
Aluminum (Al):	Ca. 0.33
Brass (Br):	Ca. 0.41
Stainless steel (V4A, 316L):	Ca. 0.72

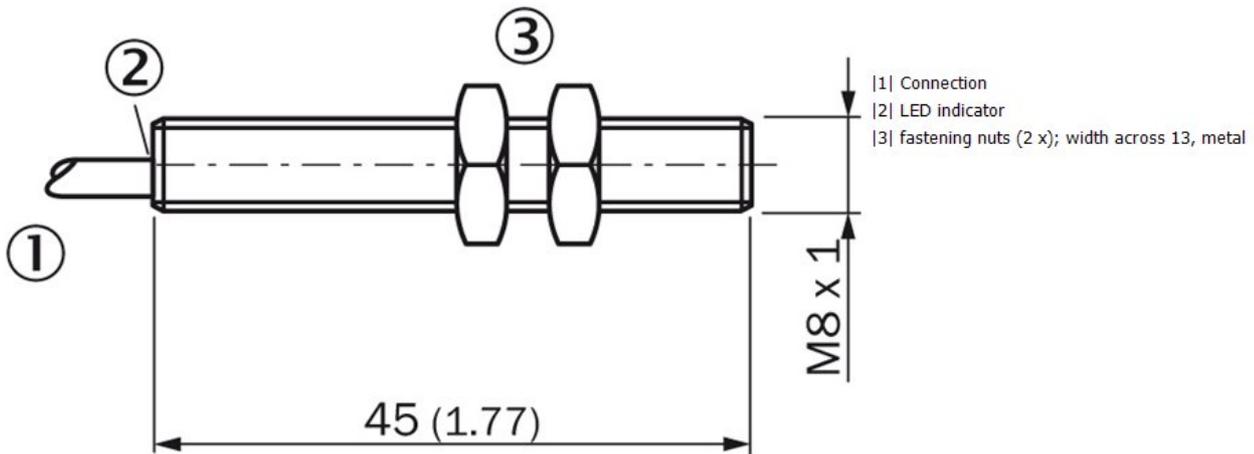
Installation note

A:	2 mm
B:	8 mm
C:	8 mm
D:	9 mm
E:	1 mm
F:	30 mm
Remark:	Associated graphic see "Installation"

Installation note non-flush installation

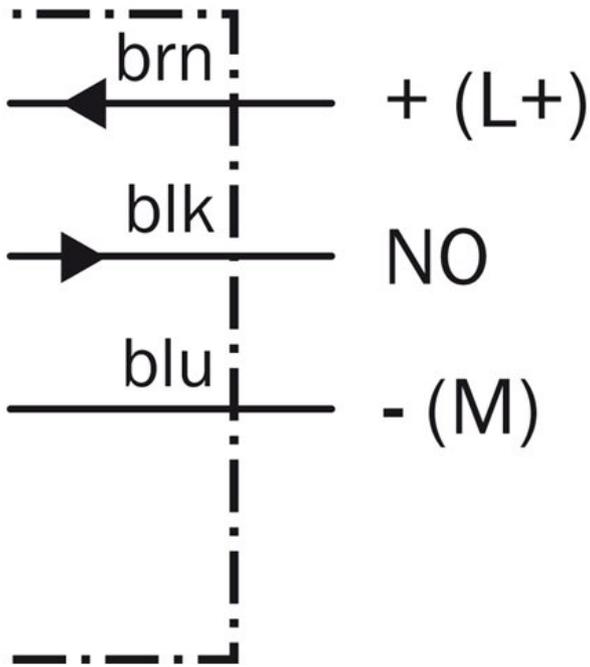


Dimensional drawing

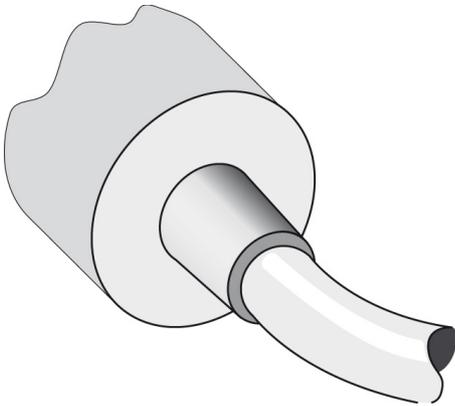


All dimensions in mm (inch)

Connection diagram



Connection type



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