



Magnetic proximity sensors
Cylindrical threaded housing, MM18

MM18-00APS-ZU0



Model Name > [MM18-00APS-ZU0](#)
Part No. > [1029952](#)



At a glance

- Detection of magnets
- Operating distances up to 70 mm; Advanced series up to 120 mm or more based on the magnet strength
- Short-circuit, reverse polarity and power-up pulse suppression protection
- Robust nickel-plated brass housing with fine thread M18 x 1 mm
- IP 67 enclosure rating
- PNP or NPN output
- High switching frequency
- LED status indicator

Your benefits

- Non-contact operation eliminates interference from dirt, dust and vibrations, increasing sensor life and reducing maintenance costs
- Space-saving installation due to small design
- Large operating distances with reliable switching increase throughput
- Non-contact, universal detection through several substances, including plastic containers and pipes protective PTFE walls and non-magnetic metal walls



Features

Thread size:	M18 x 1
Design:	Cylindrical
Sensing range Sn:	120 mm ¹⁾
Assured sensing range Sa:	97.2 mm
Magnetic sensitivity:	0.4 mT
Switching frequency:	5,000 Hz
Output type:	PNP
Output function:	NO
Electrical wiring:	DC 3-wire
Enclosure rating:	IP 67 ²⁾
Magnetic alignment:	Axial
Connection type:	Cable, 3-wire, 2 m ³⁾
Housing:	Advanced

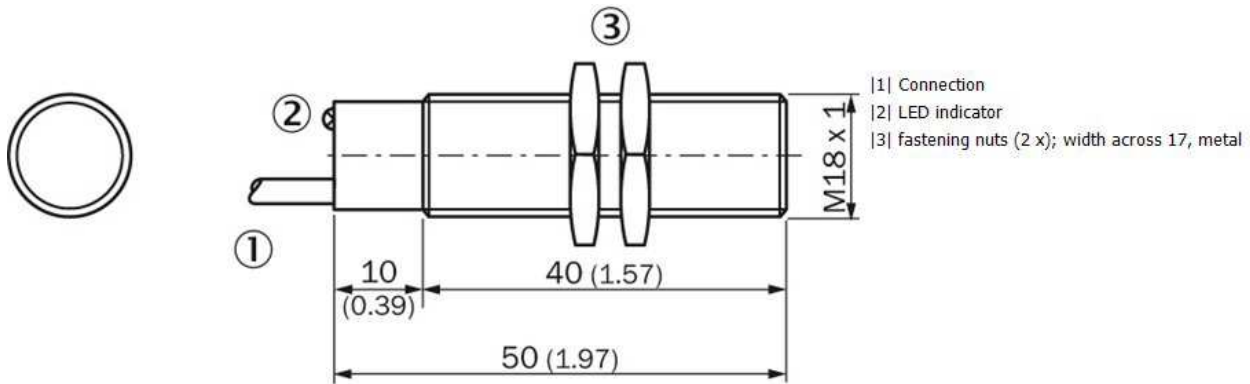
¹⁾ Sensing range based on installation in non-magnetic material using Magnet MAG-3010-B (M4.0) ²⁾ According to EN 60529 ³⁾ Do not bend below 0 °C

Mechanics/electronics

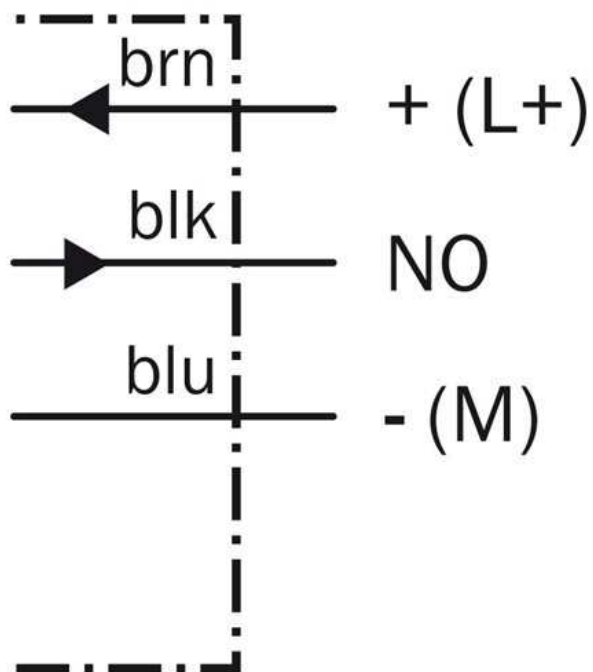
Housing length:	50 mm
Supply voltage:	10 V DC ... 30 V DC
Ripple:	$\leq 10\%$ ¹⁾
Power consumption:	$\leq 10\text{ mA}$ ²⁾
Voltage drop:	$\leq 1.5\text{ V}$ ³⁾
Output current I_a :	$\leq 300\text{ mA}$
Hysteresis:	1 % ... 10 %
Repeatability:	$\leq 1\%$ ⁴⁾
Temperature drift (of Sr):	$\pm 10\%$
EMC:	According to EN 60947-5-2
Tightening torque, max.:	25 Nm
Reverse polarity protection:	✓
Short-circuit protection ⁵⁾ :	✓
Housing material:	Metal, Nickel-plated brass
Special feature:	Advanced sensing range
Power-up pulse protection:	✓
Time delay before availability:	$\leq 2\text{ ms}$
Ambient operating temperature:	-25 °C ... 75 °C
Shock and vibration resistance:	30 g, 11 ms/10 ... 55 Hz, 1 mm
Cable material:	PUR/PVC
Wire-break protection:	0
Items supplied:	Fastening nuts (2 x)

1) Of V_S 2) Without load 3) At $I_a \text{ max}$ 4) Von Sr (VS und Ta constant) 5) Pulsed

Dimensional drawing



Connection diagram



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