



**Magnetic proximity sensors**  
**Cylindrical threaded housing, MM08**

MM08-60APO-ZUA



**Model Name** > [MM08-60APO-ZUA](#)  
**Part No.** > [1042425](#)



**At a glance**

- Detection of magnets
- Long sensing distances up to 60 mm or even more based on the magnet strength
- Short-circuit, reverse polarity and power-up pulse suppression protection
- Robust nickel-plated brass housing with fine thread M8 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:	M8 x 1
Design:	Cylindrical
Sensing range Sn:	60 mm <sup>1)</sup>
Assured sensing range Sa:	48.6 mm
Magnetic sensitivity:	1 mT
Switching frequency:	1,000 Hz
Output type:	PNP
Output function:	NC
Electrical wiring:	DC 3-wire
Enclosure rating:	IP 67 <sup>2)</sup>
Magnetic alignment:	Axial
Connection type:	Cable, 3-wire, 3 m <sup>3)</sup>
Housing:	Standard

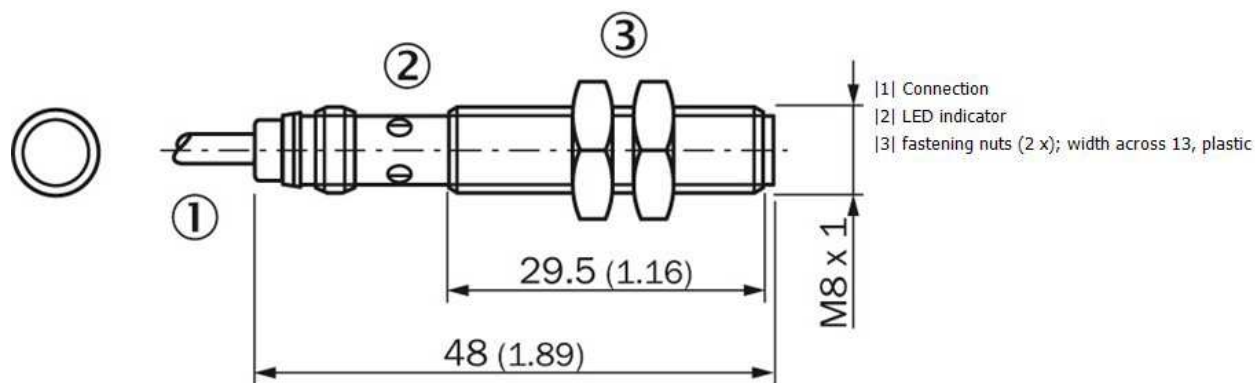
<sup>1)</sup> Sensing range based on installation in non-magnetic material using Magnet MAG-3010-B (M4.0) <sup>2)</sup> According to EN 60529 <sup>3)</sup> Do not bend below 0 °C

**Mechanics/electronics**

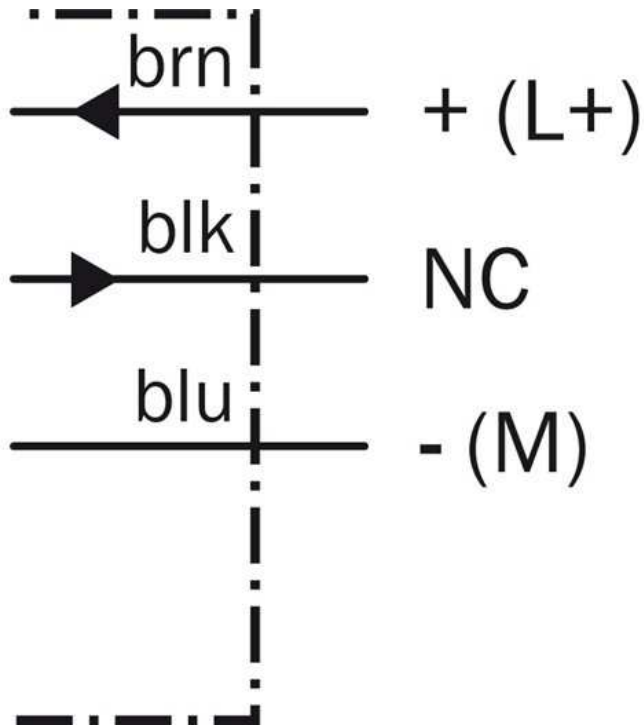
Housing length:	48 mm
Supply voltage:	10 V DC ... 30 V DC
Ripple:	$\leq 10\%$ <sup>1)</sup>
Power consumption:	$\leq 10\text{ mA}$ <sup>2)</sup>
Voltage drop:	$\leq 2\text{ V}$ <sup>3)</sup>
Output current $I_a$ :	$\leq 200\text{ mA}$
Hysteresis:	1 % ... 10 %
Repeatability:	$\leq 1\%$ <sup>4)</sup>
Temperature drift (of Sr):	$\pm 10\%$
EMC:	According to EN 60947-5-2
Tightening torque, max.:	6 Nm
Reverse polarity protection:	✓
Short-circuit protection <sup>5)</sup> :	✓
Housing material:	Metal, Nickel-plated brass
Special feature:	Short version
Power-up pulse protection:	✓
Time delay before availability:	$\leq 20\text{ ms}$
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)

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

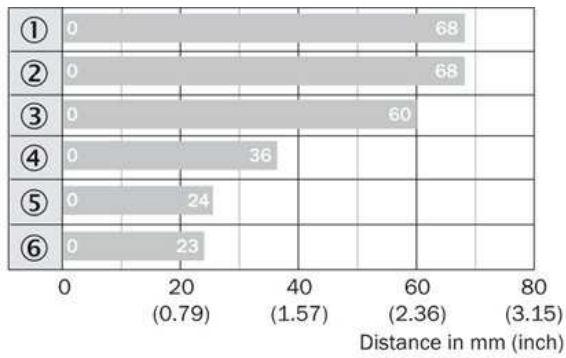
### Dimensional drawing



Connection diagram



Operating distance

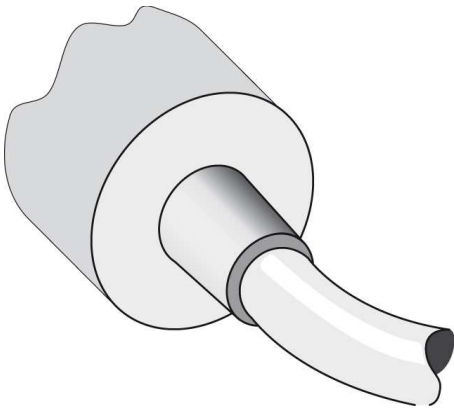


■ Max. sensing range S<sub>n</sub>, flush or non-flush installation, non-magnetizable material

Magnet type	Part no.
① MAG-3315-B (M 5.1)	7902086
② MAG-3015-B (M 5.0)	7901786
③ MAG-3010-B (M 4.0)	7901785
④ MAG-2006-B (M 3.0)	7901784
⑤ MAG-0625-A (M 2.0)	7901783
⑥ MAG-1003-S (M 1.0)	7901782

**Connection type**

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