



Technical data overview

| | |
|---|---|
| Housing | Metric |
| Thread size | M12 x 1 M18 x 1 |
| Sensing range S_n | 60 mm ... 120 mm (depending on type) |
| Magnetic field sensitivity, min. | ≤ 0.4 mT ... ≤ 1 mT (depending on type) |
| Housing material | Nickel-plated brass / Stainless steel V4A (1.4404, 316L) (depending on type) |
| Enclosure rating | IP67 |
| Connection | Male connector M12, 4-pin / Cable, 2-wire / Cable with connector M9, 5-pin, with knurled nuts (depending on type) |
| Housing | Metric |
| Thread size | M12 x 1 M18 x 1 |
| Sensing range S_n | 60 mm ... 120 mm (depending on type) |
| Magnetic field sensitivity, min. | ≤ 0.4 mT ... ≤ 1 mT (depending on type) |
| Housing material | Nickel-plated brass / Stainless steel V4A (1.4404, 316L) (depending on type) |
| Enclosure rating | IP67 |
| Connection | Male connector M12, 4-pin / Cable, 2-wire / Cable with connector M9, 5-pin, with knurled nuts (depending on type) |

Product description

MM NAMUR magnetic proximity sensors provide large operating distances that can reliably detect magnetic objects. Magnetic proximity sensors are resistant to dust, heat and vibration, making them ideal for use in harsh environments – even highly explosive atmospheres. By using magnetic conductors, these sensors are able to reliably detect objects over greater distances. The NAMUR design for hazardous areas is available in MM12 and MM18 designs.

At a glance

- Types: M12 to M18
- Sensing range: up to 120 mm
- Electrical configuration: NAMUR
- Enclosure rating: IP 67
- Temperature range: -25 °C to $+70$ °C
- Nickel-plated brass housing; plastic sensing face
- Reliable detection of permanent magnets through non-ferromagnetic materials such as stainless steel, aluminum, plastic or wood
- NAMUR design for usage in explosion-hazardous areas

Your benefits

- NAMUR version ensures safe function in explosion-hazardous areas
- Non-contact operation eliminates interference from dirt, dust and vibrations, increasing sensor life and reducing maintenance costs
- Large sensing ranges ensure reliable switching, even with target position tolerances
- Universal use since detection through other objects, such as plastic walls or non-magnetic stainless steel walls, is also possible

Ordering information

Other models and accessories → www.sick.com/MMN

- **Switching output:** NAMUR
- **Housing material:** metal

| Sensing range S_n | Connection type | Type | Part no. |
|---------------------|--|----------------|----------|
| ≤ 60 mm | Cable, 2-wire, 2 m ¹⁾ | MM12-60A-N-ZW0 | 7900286 |
| ≤ 70 mm | Cable, 2-wire, 2 m ¹⁾ | MM12-70A-N-ZW0 | 1102541 |
| | | MM18-70A-N-ZW0 | 1102545 |
| | | | 7900288 |
| | Male connector M12, 4-pin | MM12-70A-N-ZC0 | 1102540 |
| | | MM18-70A-N-ZC0 | 1102544 |
| | | | 7900289 |
| ≤ 90 mm | Cable with connector M9, 5-pin, with knurled nuts, 0.8 m | MM12-90A-N-ZUD | 1102542 |
| | | | 1046761 |
| ≤ 120 mm | Male connector M12, 4-pin | MM18-00A-N-VC0 | 1102546 |
| | | MM18-00A-N-ZC0 | 1026614 |

¹⁾ Do not bend below 0 °C.

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com