



MM08-60ANS-ZUK

MME

MAGNETIC SENSORS

SICK
Sensor Intelligence.



Ordering information

| Type | part no. |
|----------------|----------|
| MM08-60ANS-ZUK | 1040066 |

Included in delivery: BEF-MU-M08 (1)

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



Detailed technical data

Features

| | |
|--|---|
| Housing | Metric |
| Housing | Short-body |
| Thread size | M8 x 1 |
| Diameter | Ø 8 mm |
| Sensing range S_n | 0 mm ... 60 mm ¹⁾ |
| Safe sensing range S_a | 48.6 mm |
| Magnetic sensitivity | 1 mT |
| Switching frequency | 1,000 Hz |
| Connection type | Cable, 3-wire, 2 m |
| Switching output | NPN |
| Switching output detail | NPN |
| Output function | NO |
| Electrical wiring | DC 3-wire |
| Magnetic alignment | Axial |
| Enclosure rating | IP67 ²⁾ |
| Items supplied | Mounting nut, brass, nickel-plated (2x) |

¹⁾ Sensing range based on installation in non-magnetic material using Magnet MAG-3010-B (M4.0).

²⁾ According to EN 60529.

Mechanics/electronics

| | |
|-----------------------|---------------------|
| Supply voltage | 10 V DC ... 30 V DC |
|-----------------------|---------------------|

¹⁾ Of V_S .

²⁾ At I_a max.

³⁾ Without load.

⁴⁾ Von S_r (V_S und T_a constant).

⁵⁾ Pulsed.

| | |
|---|----------------------------------|
| Ripple | $\leq 10\% \text{ }^1$ |
| Voltage drop | $\leq 2\text{ V} \text{ }^2$ |
| Current consumption | 10 mA ³⁾ |
| Time delay before availability | $\leq 20\text{ ms}$ |
| Hysteresis | 1 % ... 10 % |
| Reproducibility | $\leq 1\% \text{ }^4$ |
| Temperature drift (of S_r) | $\pm 10\%$ |
| EMC | According to EN 60947-5-2 |
| Continuous current I_a | $\leq 200\text{ mA}$ |
| Cable material | PUR |
| Reverse polarity protection | Yes |
| Short-circuit protection | Yes ⁵⁾ |
| Power-up pulse protection | ✓ |
| Shock and vibration resistance | 30 g, 11 ms / 10 ... 55 Hz, 1 mm |
| Ambient operating temperature | -25 °C ... +75 °C |
| Housing material | Metal, Nickel-plated brass |
| Housing length | 48 mm |
| Thread length | 29.5 mm |
| Tightening torque, max. | 6 Nm |

¹⁾ Of V_S.

²⁾ At I_a max.

³⁾ Without load.

⁴⁾ Von S_r (V_S und T_a constant).

⁵⁾ Pulsed.

Safety-related parameters

| | |
|-------------------------------------|-------------|
| MTTF_D | 1,980 years |
| DC_{avg} | 0% |
| T_M (mission time) | 20 years |

Certificates

| | |
|---|---|
| EU declaration of conformity | ✓ |
| UK declaration of conformity | ✓ |
| ACMA declaration of conformity | ✓ |
| Moroccan declaration of conformity | ✓ |
| China RoHS | ✓ |

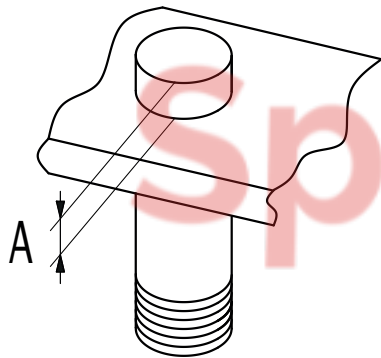
Classifications

| | |
|---------------------|----------|
| ECLASS 5.0 | 27270104 |
| ECLASS 5.1.4 | 27270104 |
| ECLASS 6.0 | 27270104 |
| ECLASS 6.2 | 27270104 |
| ECLASS 7.0 | 27270104 |
| ECLASS 8.0 | 27270104 |

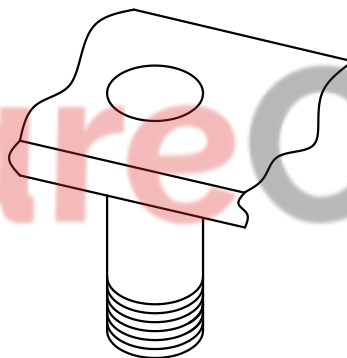
| | |
|-----------------------|----------|
| ECLASS 8.1 | 27270104 |
| ECLASS 9.0 | 27270104 |
| ECLASS 10.0 | 27270104 |
| ECLASS 11.0 | 27270104 |
| ECLASS 12.0 | 27274301 |
| ETIM 5.0 | EC002544 |
| ETIM 6.0 | EC002544 |
| ETIM 7.0 | EC002544 |
| ETIM 8.0 | EC002544 |
| UNSPSC 16.0901 | 39122230 |

Installation note

installation in
magnetizable material

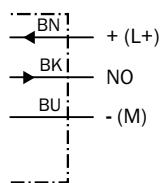


installation in
non-magnetizable material

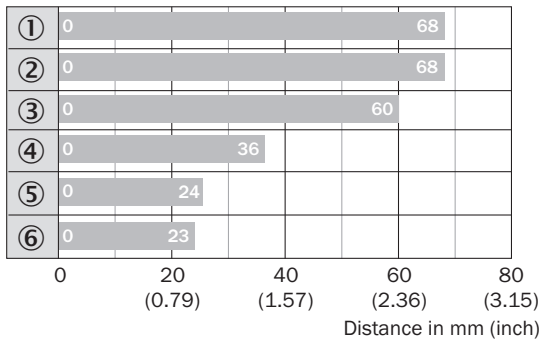


| Ø | A (mm) | M (Nm) |
|----|-----------|-----------|
| M8 | 10 | < 6 |

Connection diagram Cd-001



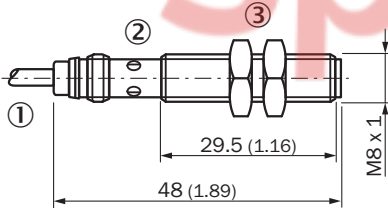
Sensing range



■ Max. sensing range S_n , 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 |

Dimensional drawing MM08, cable, short-body housing







Dimensions in mm (inch)

- ① Connection
- ② Display LED
- ③ fastening nuts (2 x); width across 13, plastic

Recommended accessories

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

| | Brief description | Type | part no. |
|---|--|-------------|----------|
| Mounting systems | | | |
|  | <ul style="list-style-type: none"> Description: Mounting bracket for M8 sensors Material: Steel Details: Steel, zinc coated Items supplied: Without mounting hardware | BEF-WN-M08 | 5321721 |
|  | <ul style="list-style-type: none"> Description: Mounting plate for M8 sensors Material: Steel Details: Steel, zinc coated Items supplied: Without mounting hardware | BEF-WG-M08 | 5321722 |
|  | <ul style="list-style-type: none"> Description: Clamping block for round sensors M8, without fixed stop Material: Plastic Details: Plastic (PA12), glass-fiber reinforced Items supplied: Mounting hardware included | BEF-KH-M08 | 2051477 |
|  | <ul style="list-style-type: none"> Description: Clamping block for round sensors M8, with fixed stop Material: Plastic Details: Plastic (PA12), glass-fiber reinforced Items supplied: Mounting hardware included | BEF-KHF-M08 | 2051478 |

SpareCruX

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

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