



DATA SHEET

# MQ10-60APSKT0

MQB  
Magnetic sensors

# SICK

Sensor Intelligence



Illustration may differ

MAGNETIC SENSORS

MQ10-60APSKT0

ORDERING INFORMATION

| Type          | part no. |
|---------------|----------|
| MQ10-60APSKT0 | 1078008  |

Further device versions and accessories at [www.sick.com/MQB](http://www.sick.com/MQB)



DETAILED TECHNICAL DATA

FEATURES

|                          |                              |
|--------------------------|------------------------------|
| Housing                  | Rectangular                  |
| Dimensions (W x H x D)   | 10 mm x 28 mm x 16 mm        |
| Sensing range $S_n$      | 0 mm ... 60 mm <sup>1)</sup> |
| Safe sensing range $S_a$ | 48.6 mm                      |
| Magnetic sensitivity     | 1 mT                         |
| Switching frequency      | 1,000 Hz                     |
| Connection type          | Connector M8, 3-pin          |
| Switching output         | PNP                          |
| Switching output detail  | PNP                          |
| Output function          | NO                           |
| Electrical wiring        | DC 3-wire                    |
| Enclosure rating         | IP67 <sup>2)</sup>           |

<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.

MECHANICS/ELECTRONICS

|                     |                                   |
|---------------------|-----------------------------------|
| Supply voltage      | 10 V DC ... 30 V DC               |
| Ripple              | $\leq 10\%$ <sup>1)</sup>         |
| Voltage drop        | $\leq 1.5\text{ V}$ <sup>2)</sup> |
| Current consumption | 5 mA <sup>3)</sup>                |

<sup>1)</sup> Of  $V_s$ .

<sup>2)</sup> At  $I_a$  max.

<sup>3)</sup> Without load.

<sup>4)</sup> Von Sr (VS und Ta constant).

|                                |                                  |
|--------------------------------|----------------------------------|
| Time delay before availability | $\leq 26 \text{ ms}$             |
| Hysteresis                     | 1 % ... 10 %                     |
| Reproducibility                | $\leq 1 \%^{4)}$                 |
| Temperature drift (of $S_r$ )  | $\pm 10 \%$                      |
| EMC                            | According to EN 60947-5-2        |
| Continuous current $I_a$       | $\leq 200 \text{ mA}$            |
| Reverse polarity protection    | Yes                              |
| Short-circuit protection       | Yes                              |
| 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               | Plastic, VISTAL®                 |
| Sensing face material          | Plastic, VISTAL®                 |

<sup>1)</sup> Or  $V_s$ .

<sup>2)</sup> At  $I_a \text{ max.}$

<sup>3)</sup> Without load.

<sup>4)</sup> Von  $S_r$  (VS und Ta constant).

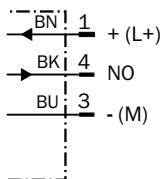
## SAFETY-RELATED PARAMETERS

|                   |             |
|-------------------|-------------|
| MTTF <sub>D</sub> | 1,924 years |
| DC <sub>avg</sub> | 0 %         |

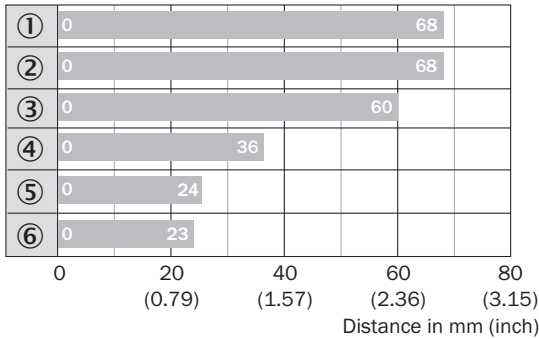
## CERTIFICATES

|                                                     |   |
|-----------------------------------------------------|---|
| EU declaration of conformity                        | ✓ |
| UK declaration of conformity                        | ✓ |
| Moroccan declaration of conformity                  | ✓ |
| China RoHS                                          | ✓ |
| China Compulsory Product Certification (CCC) exempt | ✓ |

## CONNECTION DIAGRAM CD-002



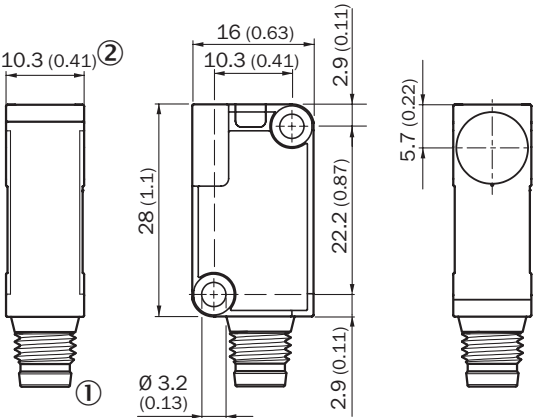
SENSING RANGE



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  |

DIMENSIONAL DRAWING MQ10, CONNECTOR



Dimensions in mm (inch)  
① Connection  
② LED indicator 270°

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at [www.sick.com/1078008](http://www.sick.com/1078008)

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# SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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