

MQ10-60APSKQDS02

MAGNETIC PROXIMITY SENSORS





Ordering information

Туре	Part no.
MQ10-60APSKQDS02	1078005

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

Illustration may differ



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 ¹⁾
Safe sensing range S _a	48.6 mm
Magnetic sensitivity	≤ 1 mT
Switching frequency	1,000 Hz
Connection type	Cable with connector M12, 3-pin, 1 m ²⁾
Switching output	PNP
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP67 ³⁾

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

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 10 % ¹⁾
Voltage drop	\leq 1.5 V $^{2)}$
Current consumption	5 mA ³⁾
Time delay before availability	26 ms
Hysteresis	1 % 10 %

 $^{^{1)}}$ Of V_S .

 $^{^{2)}}$ Do not bend below 0 °C.

³⁾ According to EN 60529.

²⁾ At I_a max.

³⁾ Without load.

 $^{^{\}rm 4)}\,\rm Von\,Sr$ (VS und Ta constant).

Reproducibility	≤ 1 % ⁴⁾
Temperature drift (of S _r)	± 10 %
EMC	According to EN 60947-5-2
Continuous current I _a	≤ 200 mA
Cable material	PUR
Short-circuit protection	✓
Reverse polarity protection	✓
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®

¹⁾ Of V_S.

Classifications

ECI@ss 5.0	27270104
ECI@ss 5.1.4	27270104
ECI@ss 6.0	27270104
ECI@ss 6.2	27270104
ECI@ss 7.0	27270104
ECI@ss 8.0	27270104
ECI@ss 8.1	27270104
ECI@ss 9.0	27270104
ECI@ss 10.0	27270104
ECI@ss 11.0	27270104
ETIM 5.0	EC002544
ETIM 6.0	EC002544
ETIM 7.0	EC002544
ETIM 8.0	EC002544
UNSPSC 16.0901	39122230

Connection diagram

Cd-002



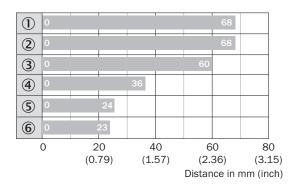
²⁾ At I_a max.

³⁾ Without load.

⁴⁾ Von Sr (VS und Ta constant).

Sensing range diagram

Sensing range

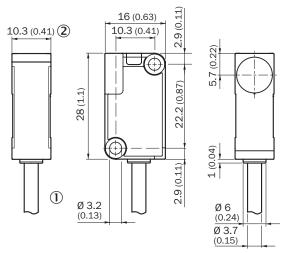


Max. sensing range S_n , flush or non-flush installation, non-magnetizable material

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 (Dimensions in mm (inch))

MQ10, cable with male connector



- ① Connection
- ② LED indicator 270°

Recommended accessories

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

	Brief description	Туре	Part no.
Magnets			
	Magnet without mounting hole, Ø 6 mm, height 25 mm	MAG-0625-A	7901783
•	Magnet without mounting hole, Ø 10 mm, height 3 mm	MAG-1003-S	7901782
	Magnet with mounting hole for M4 countersunk screw, Ø 20 mm, height 6.5 mm	MAG-2006-B	7901784
	Magnet without mounting hole, Ø 30 mm, height 10 mm	MAG-3010-B	7901785
•	Magnet with mounting hole for M5 flat head screw, Ø 31 mm, height 15 mm	MAG-3015-B	7901786
	Magnet with mounting hole for M5 flat head screw, \emptyset 36 mm, height 19.5 mm	MAG-3515-B	7902086
Plug connect	ors and cables		
	Head A: female connector, M8, 3-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m	YF8U13- 020UA1XLEAX	2094782
	Head A: female connector, M8, 3-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YF8U13- 020VA1XLEAX	2095860
· ·	Head A: female connector, M8, 3-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m	YF8U13- 050UA1XLEAX	2094788
No.	Head A: female connector, M8, 3-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YF8U13- 050VA1XLEAX	2095884
13	Head A: female connector, M8, 3-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m	YG8U13- 020UA1XLEAX	2094794
	Head A: female connector, M8, 3-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YG8U13- 020VA1XLEAX	2096165
13	Head A: female connector, M8, 3-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m	YG8U13- 050UA1XLEAX	2095586
	Head A: female connector, M8, 3-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YG8U13- 050VA1XLEAX	2096166

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