

MM18-70APS-ZUK

MAGNETIC PROXIMITY SENSORS





Ordering information

Туре	Part no.
MM18-70APS-ZUK	1040029

Included in delivery: BEF-MU-M18 (2)

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

Illustration may differ



Detailed technical data

Features

Housing	Cylindrical thread design
Housing	Short-body Short-body
Thread size	M18 x 1
Diameter	Ø 18 mm
Sensing range S _n	0 mm 70 mm ¹⁾
Safe sensing range S _a	56.7 mm
Magnetic sensitivity	0.7 mT
Switching frequency	1,000 Hz
Connection type	Cable, 3-wire, 2 m ²⁾
Switching output	PNP
Output function	NO
Electrical wiring	DC 3-wire
Magnetic alignment	Axial
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 2 V $^{2)}$
Current consumption	10 mA ³⁾

 $^{^{1)}}$ Of V_{S} .

 $^{^{2)}}$ Do not bend below 0 °C.

³⁾ According to EN 60529.

 $^{^{2)}}$ At I $_{\rm a}$ max.

³⁾ Without load.

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

⁵⁾ Pulsed.

Time delay before availability	≤ 20 ms
Hysteresis	1 % 10 %
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	✓ ⁵⁾
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	Metal, Nickel-plated brass
Housing length	48 mm
Thread length	32 mm
Tightening torque, max.	40 Nm
Items supplied	Mounting nut, brass, nickel-plated (2x)
Special feature	Short-body

 $^{^{1)}}$ 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
UNSPSC 16.0901	39122230

²⁾ At I_a max.

³⁾ Without load.

⁴⁾ Von Sr (VS und Ta constant).

⁵⁾ Pulsed.

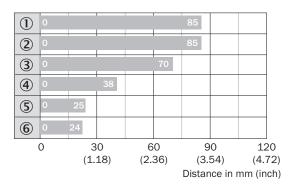
Connection diagram

Cd-001



Sensing range diagram

Sensing range

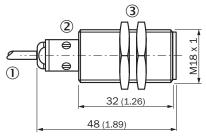


Max. sensing range S_n, flush or non-flush installation, non-magnetizable material

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))

MM18, cable, short-body housing



- ① Connection
- ② Indication LED
- 3 Fastening nuts (2x); width across 17, metal

Recommended accessories

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

	Brief description	Туре	Part no.	
Universal bar clamp systems				
6	Plate N06 for universal clamp bracket, M18, Zinc plated steel (sheet), Zinc die cast (clamping bracket), Universal clamp (5322626), mounting hardware	BEF-KHS-N06	2051612	
	Plate NO6N for universal clamp bracket, M18, Stainless steel 1.4571 (sheet), Stainless steel 1.4408 (clamp), Universal clamp (5322627), mounting hardware	BEF-KHS-N06N	2051622	
Mounting brackets and plates				
نان	Mounting plate for M18 sensors, steel, zinc coated, without mounting hardware	BEF-WG-M18	5321870	
40	Mounting bracket for M18 sensors, steel, zinc coated, without mounting hardware	BEF-WN-M18	5308446	
Terminal and	alignment brackets			
	Clamping block for round sensors M18, without fixed stop, plastic (PA12), glass-fiber reinforced, mounting hardware included $$	BEF-KH-M18	2051481	
	Clamping block for round sensors M18, with fixed stop, plastic (PA12), glass-fiber reinforced, mounting hardware included $$	BEF-KHF-M18	2051482	
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, Ø 36 mm, height 19.5 mm	MAG-3515-B	7902086	

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