



MM18-00APS-ZUA

MME

MAGNETIC SENSORS

SICK
Sensor Intelligence.

Ordering information



Type	part no.
MM18-00APS-ZUA	1087221

Included in delivery: BEF-MU-M18 (1)

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

Illustration may differ



Detailed technical data

Features

Housing	Metric
Housing	Advanced
Thread size	M18 x 1
Diameter	Ø 18 mm
Sensing range S_n	5 mm ... 120 mm ¹⁾
Safe sensing range S_a	97.2 mm
Magnetic sensitivity	0.3 mT
Switching frequency	1,000 Hz
Connection type	Cable, 3-wire, 3 m
Switching output	PNP
Switching output detail	PNP
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
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¹⁾ Of V_S .

²⁾ At I_a max.

³⁾ Without load.

⁴⁾ Von Sr (VS und Ta constant).

⁵⁾ Pulsed.

Ripple	$\leq 10\%$ ¹⁾
Voltage drop	$\leq 1.5\text{ V}$ ²⁾
Current consumption	10 mA ³⁾
Time delay before availability	$\leq 30\text{ ms}$
Hysteresis	$< 25\%$
Reproducibility	$\leq 1\%$ ⁴⁾
Temperature drift (of S_r)	$\pm 10\%$
EMC	According to EN 60947-5-2
Continuous current I_a	$\leq 200\text{ mA}$
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	$-40\text{ °C} \dots +75\text{ °C}$
Housing material	Metal, Nickel-plated brass
Housing length	50 mm
Thread length	40 mm
Tightening torque, max.	$\leq 25\text{ Nm}$

¹⁾ Of V_S .

²⁾ At I_a max.

³⁾ Without load.

⁴⁾ Von Sr (VS und Ta constant).

⁵⁾ Pulsed.

Safety-related parameters

MTTF_D	2,238 years
DC_{avg}	0 %
T_M (mission time)	20 years

Certificates

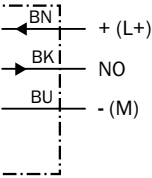
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China-RoHS	✓

Classifications

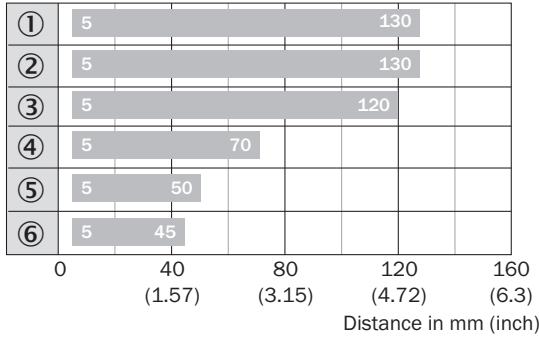
ECLASS 5.0	27270104
ECLASS 5.1.4	27270104
ECLASS 6.0	27270104
ECLASS 6.2	27270104
ECLASS 7.0	27270104
ECLASS 8.0	27270104

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

Connection diagram Cd-001



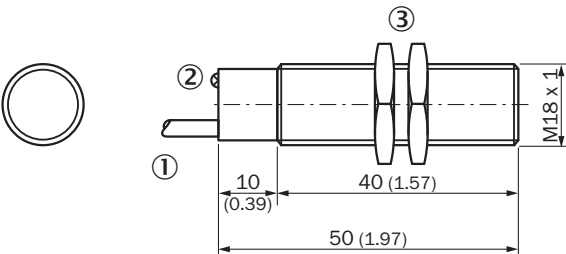
Sensing range



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 MM18, cable, standard housing



- Dimensions in mm (inch)
- ① Connection
 - ② Display LED
 - ③ Fastening nuts (2x); width across 17, metal

Recommended accessories

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

	Brief description	Type	part no.
Mounting systems			
	<ul style="list-style-type: none">• Description: Clamping block for round sensors M18, without fixed stop• Material: Plastic• Details: Plastic (PA12), glass-fiber reinforced• Items supplied: Mounting hardware included• Suitable for: GR18, MH15V, V180-2, V18	BEF-KH-M18	2051481
	<ul style="list-style-type: none">• Description: Clamping block for round sensors M18, with fixed stop• Material: Plastic• Details: Plastic (PA12), glass-fiber reinforced• Items supplied: Mounting hardware included• Suitable for: GR18, MH15V, V180-2, V18	BEF-KHF-M18	2051482
	<ul style="list-style-type: none">• Description: Mounting bracket for M18 sensors• Material: Steel• Details: Steel, zinc coated• Items supplied: Without mounting hardware• Suitable for: GR18, V180-2, V18, W15, Z1, Z2	BEF-WN-M18	5308446
	<ul style="list-style-type: none">• Description: Mounting plate for M18 sensors• Material: Steel• Details: Steel, zinc coated• Items supplied: Without mounting hardware• Suitable for: GR18, V180-2, V18, W15, Z1, Z2	BEF-WG-M18	5321870

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