



MME

Magnetic proximity sensors in common M8, M12, and M18 cylindrical housing

SICK
Sensor Intelligence.



Technical data overview

Housing	Metric
Thread size	M8 x 1 M12 x 1 M18 x 1
Sensing range S_n	45 mm ... 120 mm (depending on type)
Magnetic field sensitivity, min.	$\leq 0.3 \text{ mT} \dots \leq 2.6 \text{ mT}$ (depending on type)
Housing material	Nickel-plated brass / V4A (depending on type)
Enclosure rating	IP67
Connection	Connector M8, 3-pin / cable with AMP male connector, 3-pin / Cable, 3-wire / Cable, 2-wire / male connector M12, 4-pin (depending on type)
Housing	Metric
Thread size	M8 x 1 M12 x 1 M18 x 1
Sensing range S_n	45 mm ... 120 mm (depending on type)
Magnetic field sensitivity, min.	$\leq 0.3 \text{ mT} \dots \leq 2.6 \text{ mT}$ (depending on type)
Housing material	Nickel-plated brass / V4A (depending on type)
Enclosure rating	IP67
Connection	Connector M8, 3-pin / cable with AMP male connector, 3-pin / Cable, 3-wire / Cable, 2-wire / male connector M12, 4-pin (depending on type)

Product description

MM magnetic proximity sensors provide long sensing ranges that can reliably detect magnetic objects. Magnetic proximity sensors are resistant to dust, heat, vibrations and other harsh environments. The MM magnetic sensors are enclosed in a cylindrical housing and are available in sizes MM08, MM12 and MM18.

At a glance

- Types: M8 to M18
- Sensing range: up to 120 mm
- Electrical configuration: DC 3-wire
- Enclosure rating: IP 67
- Temperature range: $-25 \text{ }^\circ\text{C}$ to $+75 \text{ }^\circ\text{C}$
- Nickel-plated brass housing; plastic sensing face
- Reliable detection of permanent magnets through non-ferromagnetic materials such as stainless steel, aluminum, plastic or wood
- Solves high-temperature applications by installing the permanent magnet in the high-temperature area and the sensor behind an insulated area

Your benefits

- Non-contact operation eliminates interference from dirt, dust and vibrations, increasing sensor life and reducing maintenance costs
- Space-saving installation due to small design
- Large operating ranges with reliable switching increase throughput
- Non-contact, universal detection through several substances, including plastic containers and pipes protective PTFE walls and non-magnetic metal walls

Ordering information

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

Sensing range S _n	Switching output	Connection type	Housing material	Output function	Type	Part no.
–	Reed	Cable, 2-wire, 2.5 m	Metal	NC	RM08-10AU0-ZUKS03	1076783
≤ 45 mm	PNP	Male connector M12, 4-pin	Metal	NO	MM12-45APS-ZCKS01	1050342
≤ 60 mm	NPN	Cable, 3-wire, 2 m	Metal	NC	MM12-60ANO-ZU0	1016927
				NO	MM08-60ANS-ZU0	7900265
					MM08-60ANS-ZUK	1040066
					MM12-60ANS-ZU0	7900269
				NO	MM12-60ANS-ZUK	1040026
		Connector M8, 3-pin	Metal	NO	MM08-60ANS-ZT0	7900267
			MM08-60ANS-ZTK	1040068		
		Male connector M12, 4-pin	Metal	NO	MM12-60ANS-ZC0	7900271
			MM12-60ANS-ZCK	1040071		
		PNP	Cable, 3-wire, 2 m	Metal	NC	MM12-60APO-ZU0
	NO				MM12-60APO-ZUK	1040065
					MM08-60APS-ZU0	7900264
					MM08-60APS-ZUK	1040027
	MM12-60APS-ZU0				7900268	
	MM12-60APS-ZUK		1040069			
	Cable, 3-wire, 3 m		Metal	NC	MM08-60APO-ZUA	1042425
				NO	MM12-60APS-ZUA	1042365
	Connector M8, 3-pin		Metal	NC	MM08-60APO-ZT0	1069742
				NO	MM08-60APS-ZT0	7900266
	Cable with AMP male connector, 3-pin, 0.2 m	Metal	NO	MM08-60APS-ZUDS06	1117037	
Male connector M12, 4-pin			Metal	NO	MM12-60APS-ZC0	7900270
	MM12-60APS-ZCK	1040070				

Sensing range S _n	Switching output	Connection type	Housing material	Output function	Type	Part no.
≤ 70 mm	NPN	Cable, 3-wire, 2 m	Metal	NO	MM18-70ANS-ZUK	1040085
		Male connector M12, 4-pin	Metal	NO	MM18-70ANS-ZC0	7900275
					MM18-70ANS-ZCK	1040073
	PNP	Cable, 3-wire, 2 m	Metal	NO	MM18-70APS-ZU0	7900272
					MM18-70APS-ZUK	1040029
					MM18-70APO-ZC0	1047934
		Male connector M12, 4-pin	Metal	NC	MM18-70APO-ZC0	1047934
					MM18-70APO-ZCK	1047255
					MM18-70APO-ZCKSO1	1049025
				MM18-70APO-ZCKSO3	1072234	
				NO	MM18-70APS-ZC0	7900274
					MM18-70APS-ZCK	1040072
Stainless steel	NC	MM18-70APO-VCK	1099419			
	NO	MM18-70APS-VCK	1050765			
≤ 90 mm	NPN	Cable, 3-wire, 2 m	Metal	NO	MM12-90ANS-ZU0	1051013
	PNP	Cable, 3-wire, 2 m	Metal	NO	MM12-90APS-ZU0	1029951
		Male connector M12, 4-pin	Metal	NO	MM12-90APS-ZC0	1029950
≤ 120 mm	PNP	Cable, 3-wire, 2 m	Metal	NO	MM18-00APS-ZU0	1029952
					MM18-00APS-ZUK	1077120
		Cable, 3-wire, 3 m	Metal	NO	MM18-00APS-ZUA	1087221
		Male connector M12, 4-pin	Metal	NO	MM18-00APS-ZC0	1029861
					MM18-00APS-ZCK	1076085

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