



MM

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

MAGNETIC PROXIMITY SENSORS

SICK
Sensor Intelligence.



Technical data overview

Housing	Cylindrical thread design
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.	≤ 0.4 mT ... ≤ 1 mT (depending on type)
Housing material	Nickel-plated brass / V4A (depending on type)
Enclosure rating	IP67
Connection	Connector M8, 3-pin / Cable, 3-wire / cable with AMP male connector, 3-pin / 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 °C to $+75$ °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/MM

Sensing range S_n	Switching output	Connection type	Housing material	Output function	Type	Part no.
≤ 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

Sensing range S_n	Switching output	Connection type	Housing material	Output function	Type	Part no.	
					MM12-60ANS-ZUO	7900269	
					MM12-60ANS-ZUK	1040026	
		Connector M8, 3-pin	Metal	NO	MM08-60ANS-ZTO	7900267	
					MM08-60ANS-ZTK	1040068	
		Male connector M12, 4-pin	Metal	NO	MM12-60ANS-ZCO	7900271	
					MM12-60ANS-ZCK	1040071	
		PNP	Cable, 3-wire, 2 m	Metal	NC	MM12-60APO-ZUO	1017462
						MM12-60APO-ZUK	1040065
						NO	MM08-60APS-ZUO
					MM08-60APS-ZUK	1040027	
	MM12-60APS-ZUO				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-ZTO	1069742	
				NO	MM08-60APS-ZTO	7900266	
	MM08-60APS-ZTK	1040067					
	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-ZCO	7900270		
				MM12-60APS-ZCK	1040070		
≤ 70 mm	NPN	Cable, 3-wire, 2 m	Metal	NO	MM18-70ANS-ZUK	1040085	
					Male connector M12, 4-pin	Metal	NO
		MM18-70ANS-ZCK	1040073				
	PNP	Cable, 3-wire, 2 m	Metal	NO	MM18-70APS-ZUO	7900272	
					MM18-70APS-ZUK	1040029	
					Male connector M12, 4-pin	Metal	NC
		MM18-70APO-ZCK	1047255				
		NO	MM18-70APO-ZCKS01	1049025			
			MM18-70APOZCKS03	1072234			
		Stainless steel		NO	MM18-70APS-ZCO	7900274	
					MM18-70APS-ZCK	1040072	
				NC	MM18-70APO-VCK	1099419	
					MM18-70APS-VCK	1050765	
		≤ 90 mm	NPN	Cable, 3-wire, 2 m	Metal	NO	MM12-90ANS-ZUO
PNP	Cable, 3-wire, 2 m		Metal	NO	MM12-90APS-ZUO	1029951	
	Male connector M12, 4-pin		Metal	NO	MM12-90APS-ZCO	1029950	

Sensing range S_n	Switching output	Connection type	Housing material	Output function	Type	Part no.
≤ 120 mm	PNP	Cable, 3-wire, 2 m	Metal	NO	MM18-00APS-ZU0	1029952
					MM18-00APS-ZUK	1077120
		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