

Position sensors

Safety that attracts! Magnetically-coded sensors



Magnetic sensors



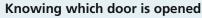
Activation from different directions aids installation

Conceal behind stainless steel for enhanced tamper prevention

Connect in series and still identify which door is open

Can reach highest safety level up to PL e to ISO 13849-1 and SILCL 3 to IEC 62061 when used with a suitable evaluation unit*





Magnetic sensors allow reliable monitoring of the door status without contact. In case of series connection, the current status of the magnetic sensors can be evaluated separately, e.g. by means of a controller, for sensor versions with a third contact (normally closed).

Easy connection and library for SISTEMA

Different versions with cable or M8/M12 standard connector simplify connection. Besides, versions for right-hinged and left-hinged doors are available in 36 mm design. Additionally, a VDMA66413 library for easy integration of the sensor characteristics in programs such as SISTEMA can be downloaded for free at the ifm website. This simplifies determining the safety-related reliability of the installation.





Туре	Sensing range [mm]	Connection	Cable entry	Contacts	Order no.		
Function principle: magnetically coded · actuator is supplied							
 • = •	5	2 m, PVC	right	2 x NO	MN200S		
	5	6 m, PVC	right	2 x NO	MN2015		
	5	M8, 4 pins, integrated	right	2 x NO	MN2025		
	5	0.1 m, PVC, M12 connector	right	2 x NO	MN203S		
	5	2 m, PVC	right	2 x NO / 1 x NC	MN204S		
	5	6 m, PVC	right	2 x NO / 1 x NC	MN205S		
	5	M8, 4 pins, integrated	left	2 x NO	MN206S		
	5	0.1 m, PVC, M12 connector	left	2 x NO	MN2075		
	8	2 m, PVC	right	2 x NO	MN500S		
	8	6 m, PVC	right	2 x NO	MN5015		
	8	M8, 4 pins, integrated	right	2 x NO	MN502S		
	8	0.1 m, PVC, M12 connector	right	2 x NO	MN503S		
C D	8	2 m, PVC	right	2 x NO / 1 x NC	MN504S		
	8	6 m, PVC	right	2 x NO / 1 x NC	MN505S		

Accessories

Туре	Description	Order no.			
	Safety relay, Combicon connector with screw terminals	G1501S			
	Safety relay, Combicon connector with screw terminals	G1502S			
	SafeLine SmartPLC, 2 x AS-i, EtherNet/IP device	AC4225			
-	Small actuator	E1101S			
	Spacer for MN2 magnetic sensors	E12585			
	Large actuator	E1104S			
*	Spacer for MN5 magnetic sensors	E12586			
Þ	Non-removable screw M4 x 20, pack quantity 10 pieces	E12584			
Spacer for MN5 magnetic sensors E12586 Non-removable screw M4 x 20, pack quantity 10 pieces E12584 Connection technology E12584 Socket, M12, 4 poles 2 m, black, PUR cable EVC001 Socket, M8, 4 poles 2 m, black, PUR cable EVC150 Socket, M8, 4 poles 2 m, black, PUR cable EVC150					
0	Socket, M12, 4 poles 2 m, black, PUR cable	EVC001			
	Socket, M8, 4 poles 2 m, black, PUR cable	EVC150			

Common technical data

Ambient temperature	[°C]	-2580
Output characteristics to CB24I Ed. 2.0	Interface type A	
Potential free	•	
Coding level to EN141	low	
Dimensions	MN20xxS [mm] MN50xxS [mm]	36 x 26 x 13 88 x 25 x 13

Safe connection*

In combination e.g. with the G1501S relay and an ifm SmartPLC, e.g. AC422S, use in safety functions up to PL e to ISO 13849 and SILCL 3 to IEC 62061 is possible.

Better protection against tampering

Since the sensors can detect the magnet through stainless steel or aluminium, hidden installation is possible thus improving protection against tampering.

High performance

Stable switching characteristics thanks to broad switch-on / switch-off graph. The sensor can be approached with the coded actuator from different directions.

Worldwide use

Thanks to the UL approval, the sensors can be used in machines in large parts of the world.