



Position sensors

Manipulation impossible: highest protection with coded RFID sensors



RFID sensors

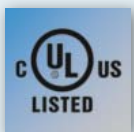
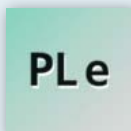


Unique actuator coding prevents tampering

Meets highest safety level even in case of series connection of up to 32 sensors

LED display facilitates visual checking of the sensing range setting

The sensor can be taught to accept a new coded actuator as required via teach wire



Preventive maintenance

The non-contact RFID sensors allow reliable monitoring of the door status without any wear. The sensors can display switch-off operation of the sensors directly using the LED display if the actuator slowly leaves the sensing range. This means that for example the door and the actuator can be perfectly aligned to each other ensuring higher machine uptime.



Type	Sensing range [mm]	Connection	Cable entry	Coding	Series connection possible	Order no.
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Function principle: RFID-coded · actuator is supplied

	12	M12 connector, 5 poles	right	coded	–	MN700S
	12	M12 connector, 8 poles	right	uniquely coded	•	MN701S
	12	M12 connector, 8 poles	right	codable	•	MN702S
	12	2 m, PVC cable, 5 poles	right	coded	–	MN703S
	12	2 m, PVC cable, 8 poles	right	uniquely coded	•	MN704S
	12	2 m, PVC cable, 8 poles	right	codable	•	MN705S
	12	M12 connector, 5 poles	left	coded	–	MN706S
	12	M12 connector, 8 poles	left	uniquely coded	•	MN707S
	12	M12 connector, 8 poles	left	codable	•	MN708S

Accessories

Type	Description	Order no.
	Safety relay, Combicon connector with screw terminals	G1501S
	Safety relay, Combicon connector with screw terminals	G1502S
	AS-i safety monitor, Combicon connector with screw terminals	AC041S
	SafeLine SmartPLC, 2 x AS-i, EtherNet/IP device	AC422S
	Actuator coded	E1102S
	Actuator codable	E1103S
	Mounting plate for MN7 designs, dimensions 40 x 72 x 8 mm	E12621
	Non-removable screw M4 x 20, pack quantity 10 pieces	E12584

Common technical data

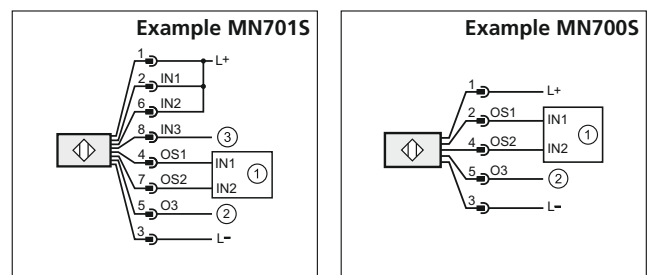
Operating voltage	[V DC]	24 (± 10 %)
Sensing range	[mm]	12
Safe switch-off distance	[mm]	16
Contacts		2x OSSD (1x PNP)
Ambient temperature	[°C]	-25...80
Output characteristics		interface type C, class 2
Coding level to EN14119 for MN701S, MN704S		high
Accessories		actuator, 4 washers, 8 cover caps
Dimensions	[mm]	72 x 25 x 18

Safe connection

With the sensors as sub-systems it is possible to implement safety functions up to PL e to ISO 13849-1 or SILCL 3 to IEC 62061.

The safety classification of the sensors is available on the ifm website for download in a library according to VDMA standard sheet 66413 such as SISTEMA.

Wiring diagram



- 1) safety-related logic unit
- 2) programmable logic controller (PLC)
- 3) not used