



Position sensors

# Manipulation impossible: highest protection with coded RFID sensors



RFID sensors

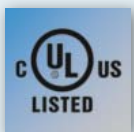
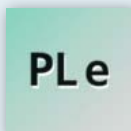


Unique actuator coding prevents tampering

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

### Accessories

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

### Common technical data

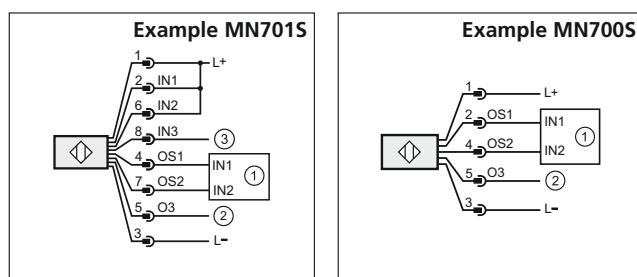
Operating voltage	[V DC]	24 (± 10 %)
Sensing range	[mm]	12
Safe switch-off distance	[mm]	16
Contacts		2x OSSD (1x PNP)
Ambient temperature	[°C]	-25...80
Output characteristics		interface type C, class 2
Coding level to EN14119 for MN701S, MN704S		high
Accessories		actuator, 4 washers, 8 cover caps
Dimensions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