



Position sensors

Highest protection against tampering with coded RFID sensors



RFID sensors



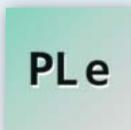
Unique actuator coding prevents tampering

Connect up to 32 sensors in series with the safety integrity remaining at the same level

Flashing LEDs monitor sensing area

Programme the sensor as often as desired ensuring easy set-up

Meets the new interface description CB24I from ZVEI



Preventive maintenance

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 ideally paired to each other and higher machine uptime is achieved. They meet the requirements ISO 13849-1 and IEC 62061. Even if 32 sensors are connected in series, the highest safety level is maintained.

Non-contact door monitoring

The non-contact RFID sensors allow reliable monitoring of the door status without any wear.



Type	Dimensions [mm]	Sensing range [mm]	Connection	Coding	Series connection possible	Order no.
Function principle: RFID-coded · actuator is supplied						
	72 x 25 x 18	12	M12 connector, 5-pole	coded	–	MN700S
	72 x 25 x 18	12	M12 connector, 8-pole	uniquely coded	•	MN701S
	72 x 25 x 18	12	M12 connector, 8-pole	codable	•	MN702S
	72 x 25 x 18	12	2 m, PVC cable, 5-pole	coded	–	MN703S
	72 x 25 x 18	12	2 m, PVC cable, 8-pole	uniquely coded	•	MN704S
	72 x 25 x 18	12	2 m, PVC cable, 8-pole	codable	•	MN705S

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.

Preventive maintenance

The sensors allow display of an uncertain sensor state directly on site using the LED display if the actuator is no longer close enough to the sensor.

Common technical data		
Operating voltage	[V DC]	24 (± 10 %)
Sensing range	[mm]	12
Safe switch-off distance	[mm]	16
Contacts		2 x OSSD, 1 x 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

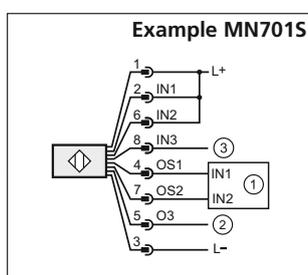
Connection technology

Type	Description	Order no.
	Socket, M12, 5-pole 2 m black, PUR cable	EVC544
	Socket, M12, 2 m black, PUR cable, 8-pole	E11950

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
	One way screw M4 x 20, pack quantity 10 pieces	E12584

Wiring



- 1) Safety-related logic unit
- 2) Programmable logic controller (PLC)
- 3) not used

We reserve the right to make technical alterations without prior notice. · 04.2018