

CMS-R-AZA-01PL-AS1 (Order no. 105090)

Non-contact safety switch CMS-R-AZA-01PL-AS1, with connecting cable and plug connector M12

- ▶ Safety switches with integrated read head and integrated evaluation unit.
- ▶ LED diagnostic displays
- ▶ Operating distance 9 mm



Actuator

An appropriate actuator to suit the read head selected is required. The dimensions of the actuators are the same as those of the read heads, although the former have no connecting cable.

AS-Interface inputs

D0 – D3 Switch actuated/open

Evaluation is performed via a safety monitor.

AS-Interface output

D1 LED 1 on read head (only CMS-R-AZA...)

LED function display

- ▶ The ASI LED (dual LED red/green) displays the colors red, green and yellow. The status of the switch and the bus is indicated via this LED.
- ▶ LED 1 can be connected via the AS-Interface bus, e.g. to indicate the door state.

Principle of operation

Reed contacts are installed in the read head of the safety system CMS. The contact blades on the reed contacts are closed under the influence of the magnetic field from the actuator. The read head only responds to the specific mating component, that is a specific actuator which is allocated to the read head type.

Technical data

Approvals



Workspace

Operating distance on	min. 9 mm
Secured switch-off distance s_{ar}	max. 70 mm
Center offset	
symmetrical, at distance $s = 3$ mm	2.5 mm

Electrical connection values

ASi operating current	max. 30 mA
AS-Interface LED	
green	Power
red	Fault
AS-Interface protocol	ASi-3
ASi data out	D1 = red LED
ASi data in	D0 – D3 = door position
AS-Interface slave type	ID-Code: B, EA-Code: 7
ASi voltage	
DC	26.5 ... 30 ... 31.6 V

Mechanical values and environment

Connection type	hard-wired encapsulated cable with plug connector M12
Design	A
Installation orientation	any
Storage temperature	-25 ... 70 °C
Cable length	1 m
Mechanical life	100 x 10 ⁶
Response time	
after change in the actuation status	max. 5 ms

Degree of protection IP67

Ambient temperature -20 ... 60 °C

Material

Housing Reinforced thermoplastic (PPS), fully encapsulated

Cable material PUR

Method of operation magnetic, reed contact

Characteristic values according to EN ISO 13849-1 and EN IEC 62061

	PL	Maximum SIL	PFH _D	Category	Mission time
Monitoring of the guard position	PL e	-	4.29x10 ⁻⁸	3	20 y

Miscellaneous

in compliance with EN 60947-5-3: 2013; EN ISO 13849-1: 2008; EN ISO 14119: 2013; EN 62026-2: 2013 (AS-i)