

CMS-R-BZB-01P-AS1 (Order no. 105094)

Non-contact safety switch CMS-R-BZB-01P-AS1, with connection cable, connecting cable and plug connector(s) M12

- Safety switches with integrated read head and integrated evaluation unit.
- ▶ Operating distance 7 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

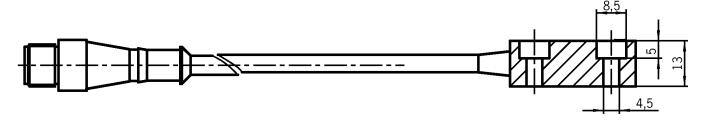
D0 – D3 Switch actuated/open Evaluation is performed via a safety monitor.

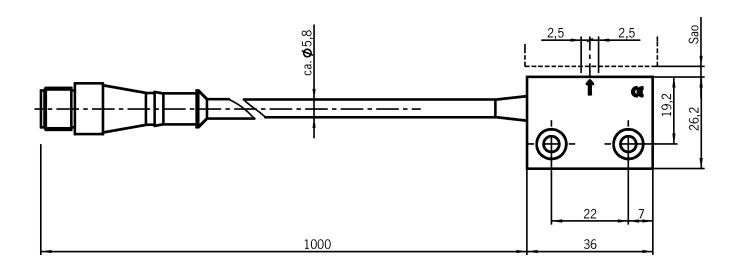
Principle of operation

Reed contacts are installed in the read head of the safety system CMS. The contacts blades on the reed contacts will close when 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 that is allocated to the read head type.



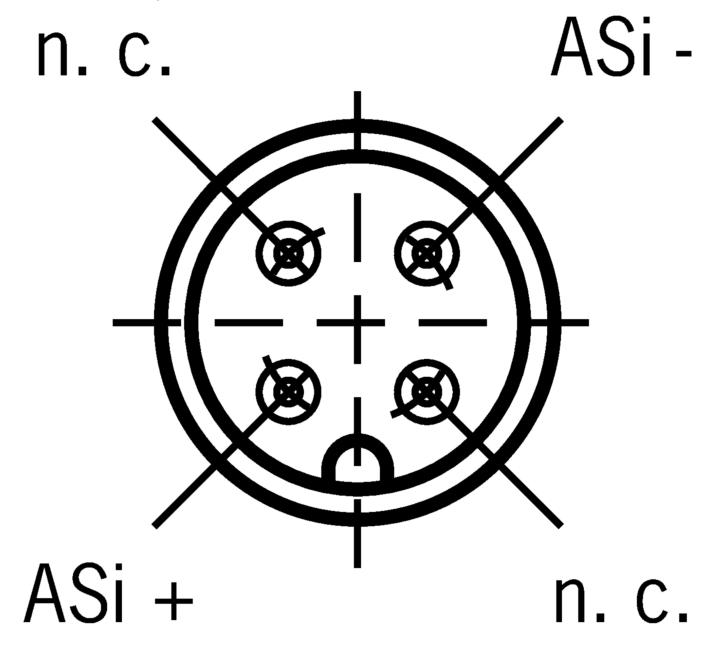
Dimensional drawings







Connection examples



View of connection side



Technical data

Approvals









Workspace

Operating distance on min. 7 mm

Secured switch-off distance s_{ar} max. 40 mm

Center offset

symmetrical, at distance s = 3 mm

Electrical connection values

ASI operating current max. 30 mA

ASI data in

according to AS-i Safety at Work D0, D1, D2, D3

(Switch actuated = code sequence / switch not actuated = zero sequence)

ASI-LED

LED red No data exchange between master and slave

(Master in the STOP mode / Slave not in LPS / Slave with incorrect IO;ID /

Reset active on the slave)

LED red flashing Fault

LED red/green alternately flashing Fault

LED red/yellow alternately flashing
No data exchange between master and slave

(Slave address=0)

LED green Normal operation

ASI slave type

according to ASI specification 3.0 EA code: 0

according to ASI specification 3.0 ID code: B

ASI voltage

DC 26.5 ... 30 ... 31.6 V

Mechanical values and environment

Connection type hard-wired encapsulated cable with plug connector M12



Design	В
Installation orientation	any (During mounting it must be ensured that the marking arrows on the actuator and the read head are opposite each other.)
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	
Cable material	PUR
Housing	Reinforced thermoplastic (PPS), fully encapsulated
Method of operation	magnetic, reed contact

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

Mission time	20 y
	Monitoring of the guard position
B _{10D}	3 x 10 ⁶
Category	3
Performance Level	PL e
PFH _D	4.29×10^{-8}



Downloads

All documentation for this material can be found on our website: https://www.euchner.de/en-us/a/105094/?#downloads-tab



Ordering data

Ordernumber	105094
Item designation	CMS-R-BZB-01P-AS1
Gross weight	0,085kg
Customs tariff number	85389099990
ECLASS	27-27-24-02 Safety-related magnetic proximity switch



Accessories

Actuator

Actuator CMS design B



092025 CMS-M-BH ▶ Cube-shaped version, 36 x 26 mm

Connection accessories

Bus coupling module with plug connector M12, 5-pin



105756 BCM-A-P2-SEM4-1

- ▶ Conversion from M12 to ribbon cable
- ▶ Very compact design
- ▶ Easy handling

Mounting accessories

Spacer CMS-A-SA



110414 CMS-A-SB VPE10

- ▶ Spacer for CMS read heads design B
- ▶ Packaging unit 10 pieces