

ITEM 097368 CMS-R-BZB-03V

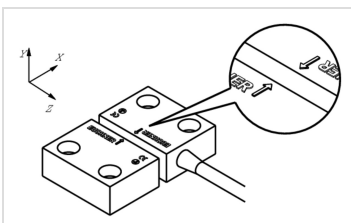
Description	Technical data	Accessories	Downloads
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Features

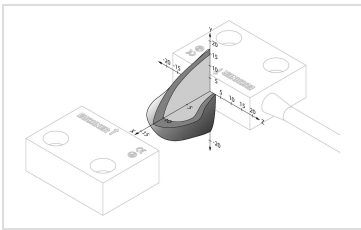
- › In combination with evaluation units ESM-BA...
- › Cube-shaped version 36 x 26 mm
- › Connection cable
- › Cable type: PVC

Alignment of read head and actuator



› Figure

Operating diagram, design B



► CMS-R-BZB

Typ. switch-on distance

Typ. switch-off distance

Approvals



Mechanical values and environment

Design	B
Material	
Cable material	PVC
Housing material	Fiber glass reinforced PPS
Weight	
Net	0,16 kg
Ambient temperature	-20 ... 60 °C
Degree of protection	IP67
Installation position	Any, pay attention to marking [1]
Tightening torque	0,4 ... 0,5 Nm
Number of NO contacts	2 NO contacts with internal fuse 100 mA each
Connection	Hard-wired encapsulated cable with cable end sleeves 0.34mm ²
Cable length	3 m
Mechanical life	100 x 10 ⁶
Method of operation	Magnetic, reed contact

Electrical connection ratings

Rated conditional short-circuit current	100 A [2]
Fusing	
Power supply / safety contacts, external contact protection	Fuse 10 A gG [3]
Switching voltage	24 ... 35 V
Switching current	max.100 mA
Switching characteristics	Parallel
Switching voltage according to UL	
According to UL Class 2	AC/DCmax.24 V
Switching frequency, electrical	

At I _{min} = 10 mA	max.5 Hz [4]
At nominal current 8 A	max.0,1 Hz [5]
Switching delay from state change	26 ms [6]

Miscellaneous

in compliance with	EN ISO 13849-1: 2015; EN 62061: 2005 + AC: 2010 + A1: 2013 + A2: 2015; EN ISO 14119: 2013; IEC 60947-5-3: 2013
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Reliability values acc. to EN ISO 13849-1

	Monitoring of the safety guard position
B10 _D	20 x 10 ⁶

in combination with Evaluation unit ESM-BA201, ESM-BA202, ESM-BA203, ESM-BA301, ESM-BA302, ESM-BA303, ESM-BA201P, ESM-BA301P and Actuator CMS-M-BH

Operating distance

Center offset	
At s=3 mm read distance	2,5 mm [7]
Assured switch-off distance S _{ar}	max.20 mm [8]
Assured operating distance S _{a0}	
With center offset m=0	min.7 mm [9]

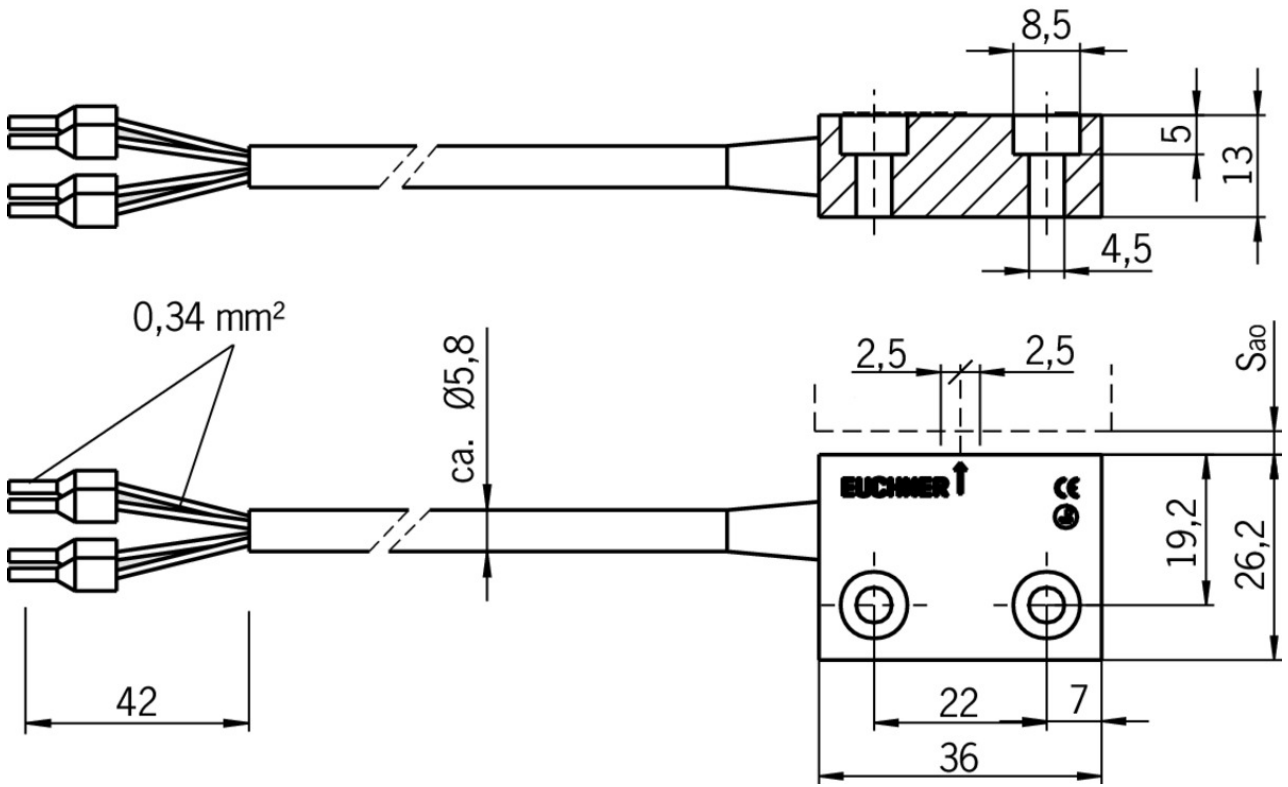
[1] During mounting it is to be ensured the marking arrows on actuator and read head are opposite each other.

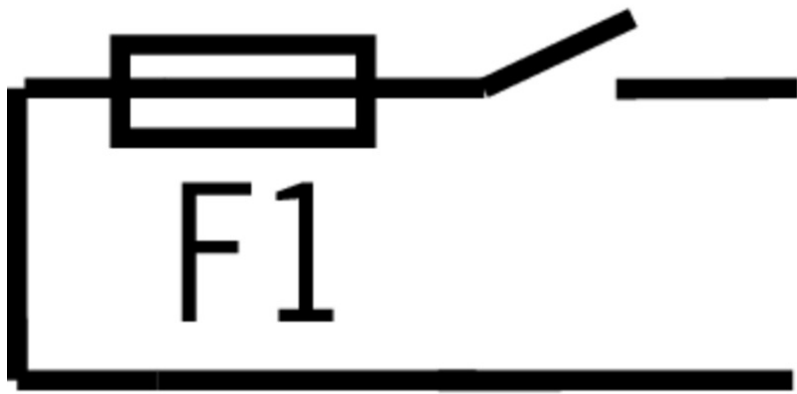
[2, 3, 4, 5, 6] Parameter dependent on the evaluation units ESM-BA2.. and ESM-BA3..

[7, 9] Figure only applies if there is no ferromagnetic material in the vicinity of the read head and the actuator.

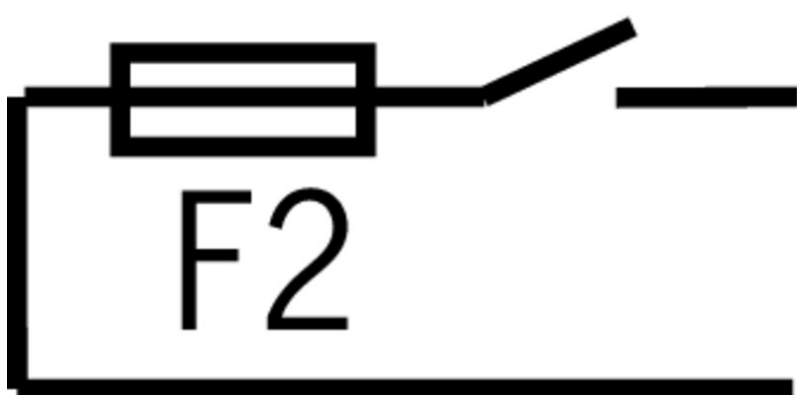
[8] The assured switch-off distance s_{ar} corresponds to the reset distance.

Dimension drawing





BN
WH



BU
BK

Actuator

- Actuator CMS design B



092025 CMS-M-BH





- Features

› Cube-shaped version 36 x 26 mm

Catalogs

- Magnetisch codierte Sicherheitsschalter CMS Système de sécurité sans contact CMS
Magnetically Coded Safety Switches CMS

	Doc. no.	Version	Language	Download
Magnetisch codierte Sicherheitsschalter CMS	086823	09-02/18		2.3 MB

Systeme de sécurité sans contact CMS	090606	09-02/18		 2.3 MB
Magnetically Coded Safety Switches CMS	086824	09-02/18		 2.3 MB

CAD data

CAD data for this item on TraceParts