

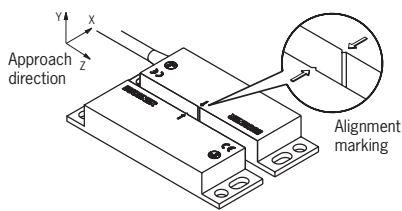
Read heads and actuators design A



- ▶ In combination with evaluation units CMS-E-BR/CMS-E-ER/CMS-E-FR
- ▶ Rectangular version 88 x 25 mm

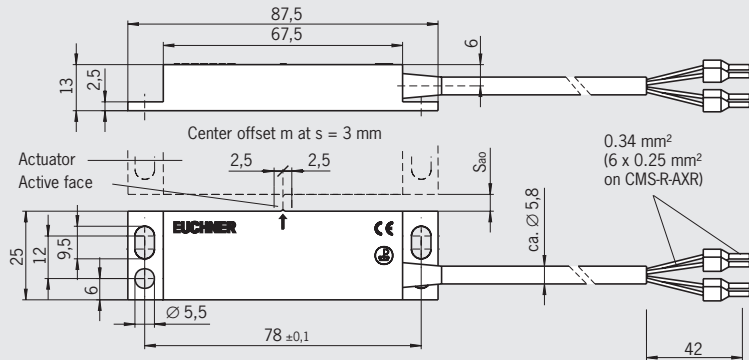


Alignment of read head and actuator



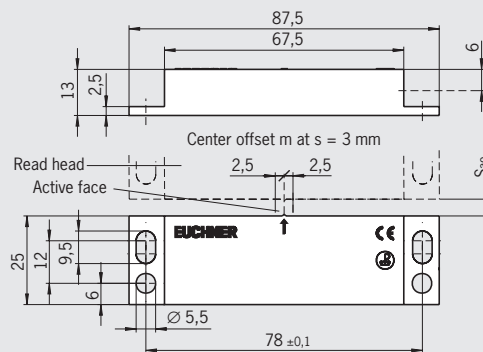
Read heads design A

Dimension drawing



Actuator design A

Dimension drawing



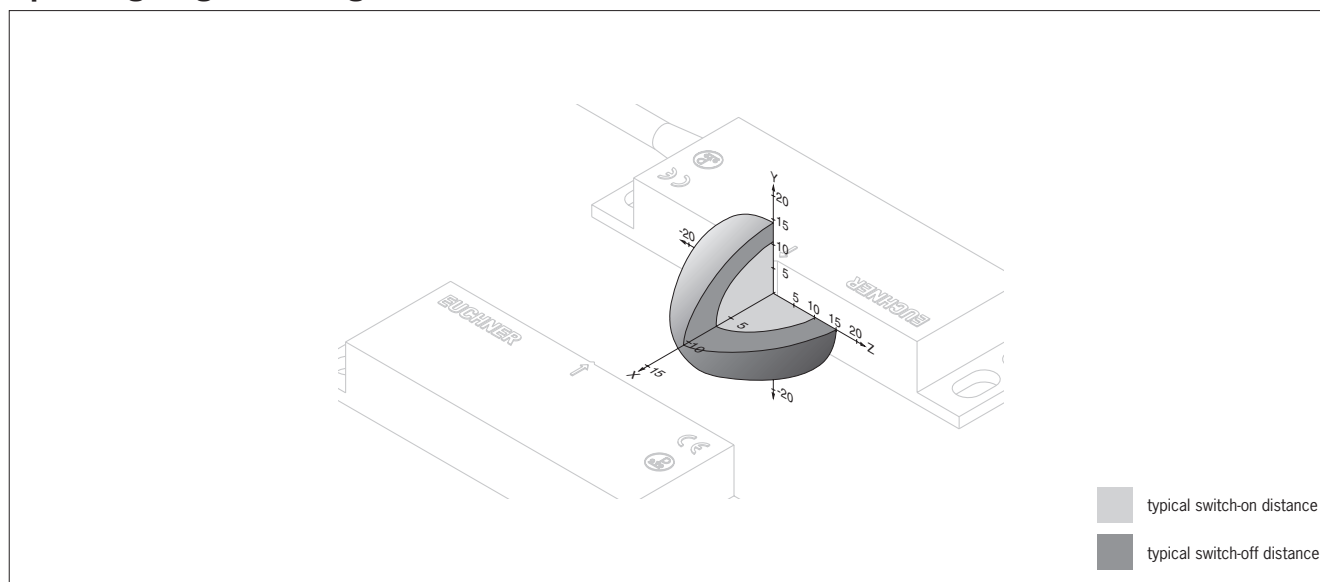
Ordering table (Read heads and actuators each incl. 2 safety screws M4 x 14)

Circuit diagram not actuated	Assured switch-on distance S_{ao} [mm]	Assured switch-on distance S_{ar} [mm]	Cable type	Cable length [m]	Read head Order No. / Item	Actuator Order No. / Item
	6	31	V PVC	3	084 587 CMS-R-AXH-03V	084 592 CMS-M-AC
				5	085 736 CMS-R-AXH-05V	

Technical data read heads and actuators design A

Parameter	Value			Unit
	min.	typ.	max.	
Read heads				
Housing material	Reinforced PPS			
Ambient temperature	- 20	-	+60	°C
Degree of protection according to EN 60529	IP 67			
Installation position	Any, alignment with read head should be kept in mind (markings)			
Connection type	Molded cable with crimped ferrules			
Switching current	24			V
Switching current I _e	-	-	0.5	A
Method of operation	Magnetic, reed contact			
Mechanical life	100 x 10 ⁶ operating cycles			
Vibration resistance	10 ... 55 Hz, amplitude 1 mm			
Shock resistance	30 g / 11 ms			
EMC compliance	According to EN 60947-5-3			
Center offset m from actuator	± 2.5 mm at a distance of s = 3 mm			
Switch-on distance S _{ao}	See ordering table and operating diagrams			
Switch-off distance S _{ar}				
Contact elements				
Actuator				
Housing material	Reinforced PPS			
Ambient temperature	- 20	-	+60	°C
Degree of protection according to EN 60529	IP 67			
Installation position	Any, alignment with read head should be kept in mind (markings)			
Method of operation	Magnetic			
Vibration resistance	10 ... 55 Hz, amplitude 1 mm			
Shock resistance	30 g / 11 ms			
Center offset m from read head	± 2.5 mm at a distance of s = 3 mm			
Switch-on distance S _{ao}	See ordering table and operating diagrams			
Switch-off distance S _{ar}				

Operating diagrams design A



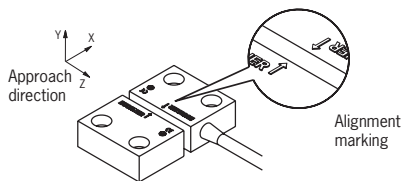
Read heads and actuators design B



- In combination with evaluation units CMS-E-BR/CMS-E-ER/CMS-E-FR
- Rectangular version 36 x 26 mm

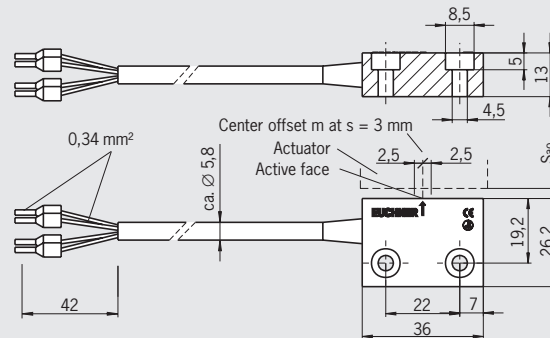


Alignment of read head and actuator



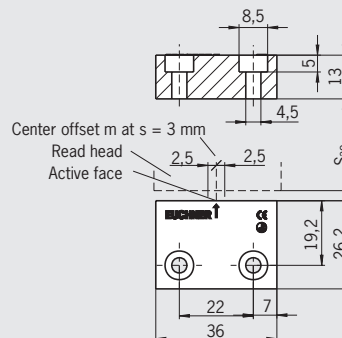
Read heads design B

Dimension drawing



Actuators design B

Dimension drawing



Ordering table (Read heads and actuators each incl. 2 safety screws M4 x 14)

Circuit diagram not actuated	Assured switch-on distance S_{ao} [mm]	Assured switch-off distance S_{ar} [mm]	Cable type	Cable length [m]	Read head Order No. / Item	Actuator Order No. / Item
	3	12	V PVC	3	085 530 CMS-R-BXI-03V	085 531 CMS-M-BD
				5	085 737 CMS-R-BXI-05V	

Technical data read heads and actuators design B

Parameter	Value			Unit
	min.	typ.	max.	
Read heads				
Housing material	Reinforced PPS			
Ambient temperature	- 20	-	+60	°C
Degree of protection according to EN 60529	IP 67			
Installation position	Any, alignment with read head should be kept in mind (markings)			
Connection type	Molded cable with crimped ferrules			
Switching current	24			V
Switching current I _e	-	-	0.5	A
Method of operation	Magnetic, reed contact			
Mechanical life	100 x 10 ⁶ operating cycles			
Vibration resistance	10 ... 55 Hz, amplitude 1 mm			
Shock resistance	30 g / 11 ms			
EMC compliance	According to EN 60947-5-3			
Center offset m from actuator	± 2.5 mm at a distance of s = 3 mm			
Switch-on distance S _{ao}	See ordering table and operating diagrams			
Switch-off distance S _{ar}				
Contact elements				
Actuator				
Housing material	Reinforced PPS			
Ambient temperature	- 20	-	+60	°C
Degree of protection according to EN 60529	IP 67			
Installation position	Any, alignment with read head should be kept in mind (markings)			
Method of operation	Magnetic			
Vibration resistance	10 ... 55 Hz, amplitude 1 mm			
Shock resistance	30 g / 11 ms			
Center offset m from read head	± 2.5 mm at a distance of s = 3 mm			
Switch-on distance S _{ao}	See ordering table and operating diagrams			
Switch-off distance S _{ar}				

Operating diagrams design B

