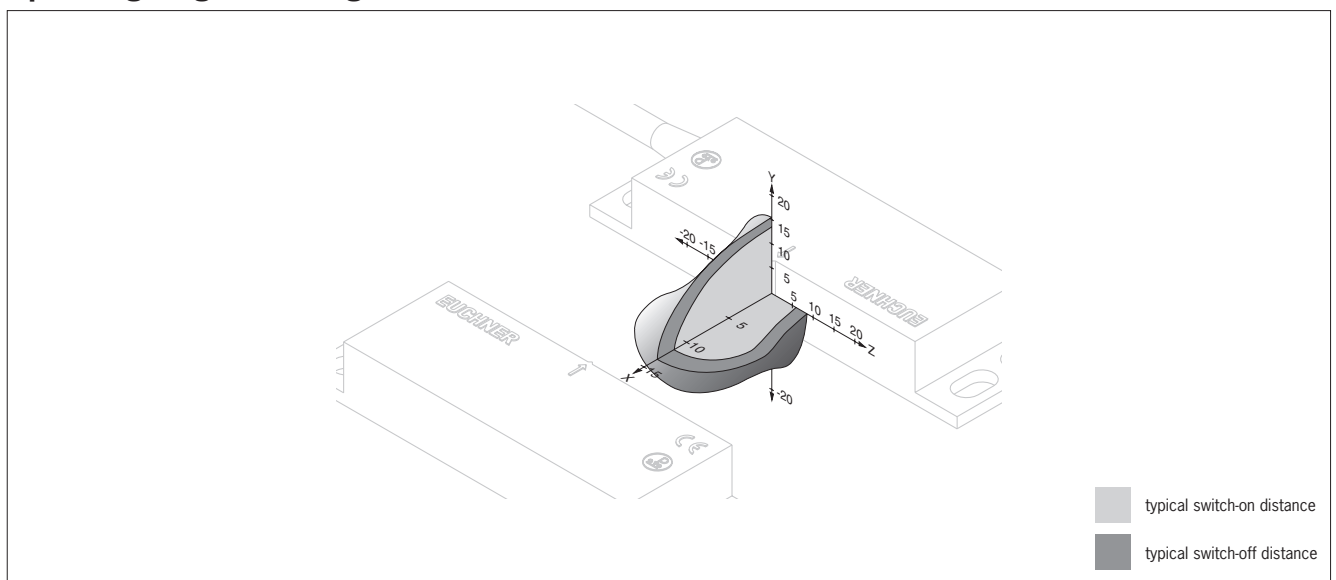


Technical data read heads and actuators design A for ESM

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
Contact status indication (only CMS-R-AZA...)				
Switching current	24			V
Switching current I_e	-	-	0.015	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 for ESM



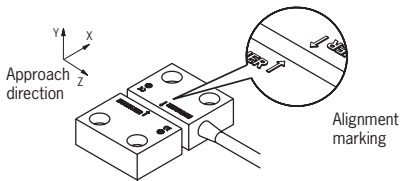
Read heads and actuators design B for ESM



- ▶ In combination with evaluation units ESM-BA.../ESM-F-B...
- ▶ Rectangular version 36 x 26 mm

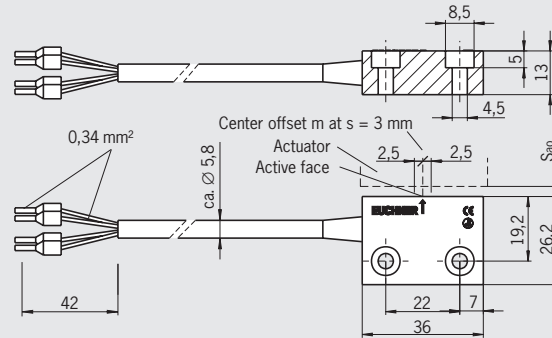


Alignment of read head and actuator



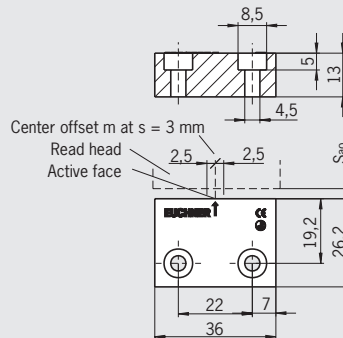
Read heads design B for ESM

Dimension drawing



Actuators design B for ESM

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
	7	20	V PVC	3	097 368 CMS-R-BZB-03V	092 025 CMS-M-BH

* BG approval pending

Technical data read heads and actuators design B for ESM

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 acc. to EN IEC 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 for ESM

