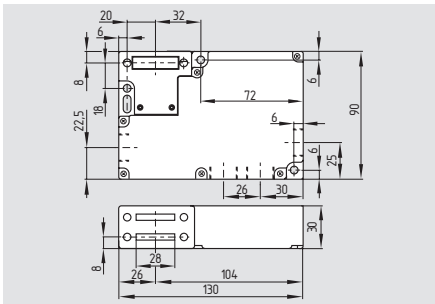


Solenoid interlocks

EX-AZM 161-...-3D



- Ex certified
- Interlock with protection against incorrect locking
- Thermoplastic enclosure
- 6 contacts
- Manual release
- Long life
- Double insulated
- High holding force 2000 N
- Large wiring compartment
- Power to unlock / Power to lock
- Cage clamps or screw terminals
- 4 cable entries M16
- Including Ex-certified screwed cable gland

Approvals



Ordering details

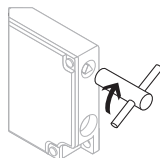
EX-AZM 161 ①-12/12-②K③-024-3D

No.	Option	Description
①	SK	Screw terminals
	CC	Cage clamps
②		Latching force 5 N
	R	Latching force 30 N
③		Power to unlock
	A	Power to lock

Technical data

Equipment category:	II 3D
Ex protection:	Ex tD A22 IP67 T80°C X
Standards:	EN 60947-5-1 EN 61241-0 EN 61241-1 BG-GS-ET-19
Enclosure:	glass-fibre reinforced thermoplastic, self-extinguishing stainless steel 1.4301
Actuator and locking bolt:	
Protective cover:	Steel painted
Max. impact energy:	1 J 7 J (with AZM 161-ME)
Actuating speed:	max. 1 m/s
Protection class:	IP 67
Contact material:	Silver
Contact type:	change-over contact with double break, type Zb, with galvanically separated contact bridges
Switching system:	EN 60947-5-1, slow action, positive break NC contact
Connection:	screw terminals or cage clamps
Cable section:	max. 1.5 mm ² (incl. conductor ferrules)
Cable entry:	4x M16
U _{imp} :	4 kV
U _i :	250 V
I _{the} :	5 A
Utilisation category:	AC-15, DC-13
I _e /U _e :	4 A / 230 VAC 2.5 A / 24 VDC
Max. fuse rating:	6 A gG D-fuse
Positive break travel:	9.5 mm
Positive break force:	10 N for each NC contact fitted
U _s :	24 VAC/DC
Magnet:	100% ED
Power consumption:	max. 10 W
Ambient temperature:	- 15 °C ... + 50 °C
Mechanical life:	> 1 million operations
F _{max} :	2000 N
Latching force:	30 N for ordering suffix r
Cable cross-section of the cable glands:	min. Ø 5 mm max. Ø 10 mm
	II 2D

Note

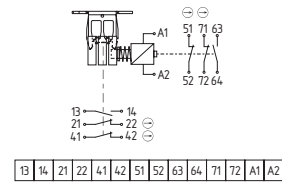


Manual release

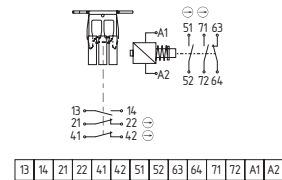
- For manual release using M5 triangular key, available as accessory
- For Maintenance purposes only.

Contact variants

2 NO contact / 4 NC contacts (12/12)
Power to unlock



Power to lock



Note

At least one magnetic contact with positive break must be integrated in the safety circuit.

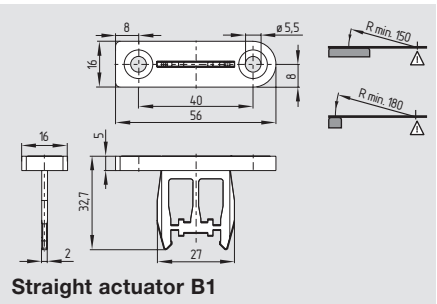
Contact variants are shown in the de-energised condition with the actuator inserted (0 in switch travel diagram).

Interlocks with the power to lock principle may only be used in special cases after a thorough evaluation of the accident risk, since the guarding device can immediately be opened on failure of the electrical power supply or when the main switch is opened.

Actuators and protective cover must be ordered separately.

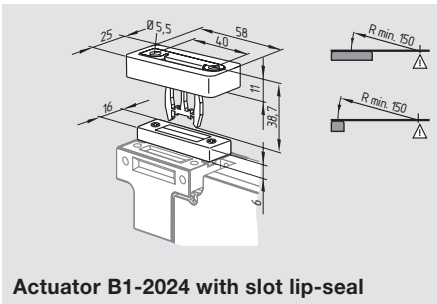
Solenoid interlocks

System components



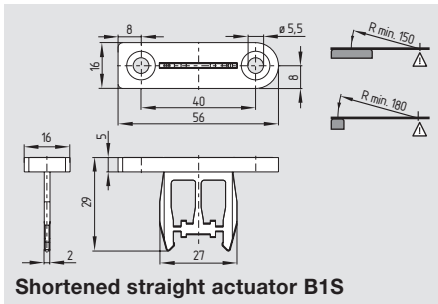
Straight actuator B1

System components

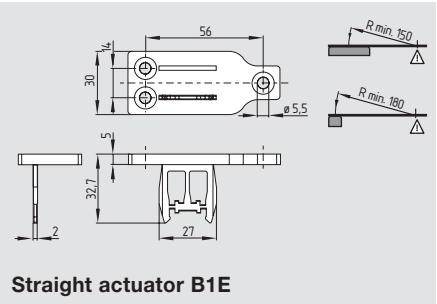


Actuator B1-2024 with slot lip-seal

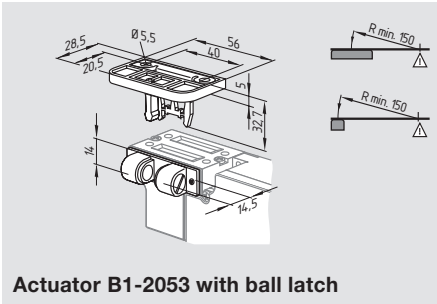
System components



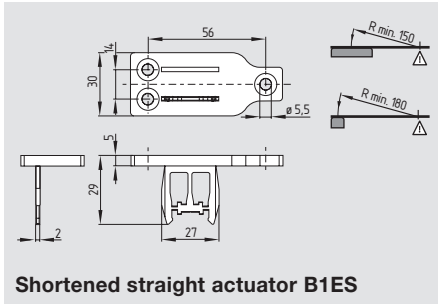
Shortened straight actuator B1S



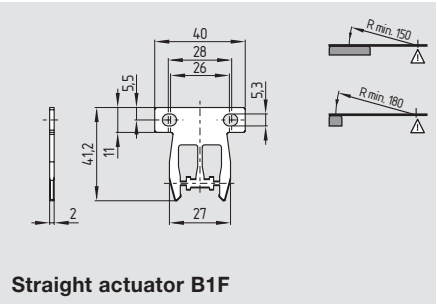
Straight actuator B1E



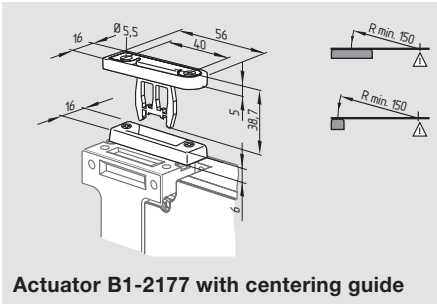
Actuator B1-2053 with ball latch



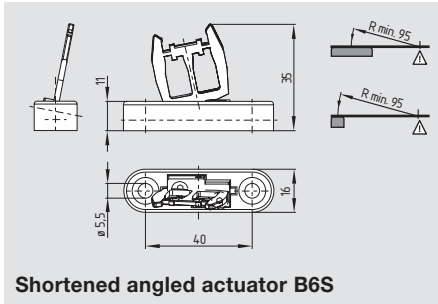
Shortened straight actuator B1ES



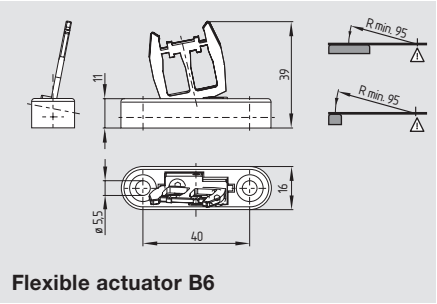
Straight actuator B1F



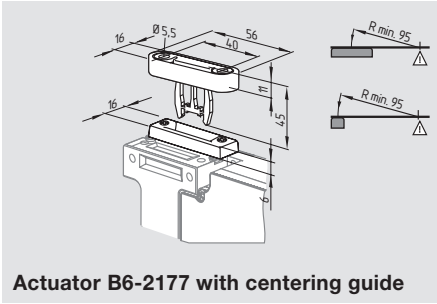
Actuator B1-2177 with centering guide



Shortened angled actuator B6S



Flexible actuator B6



Actuator B6-2177 with centering guide

Ordering details

Straight actuator **AZM 161-B1**
Straight actuator **AZM 161-B1E**
Straight actuator **AZM 161-B1F**
Flexible actuator **AZM 161-B6**

Ordering details

Straight actuator **AZM 161-B1-2024**
Straight actuator with slot lip-seal **AZM 161-B1-2053**
Straight actuator with ball latch **AZM 161-B1-2177**
Flexible actuator with centering guide **AZM 161-B6-2177**

Ordering details

Shortened straight actuator **AZM 161-B1S**
Shortened straight actuator **AZM 161-B1ES**
Shortened angled actuator **AZM 161-B6S**

Dust zone 22

EX-certified screwed cable gland

Ordering details

[illegible]Protective cover **AZM 161-ME**