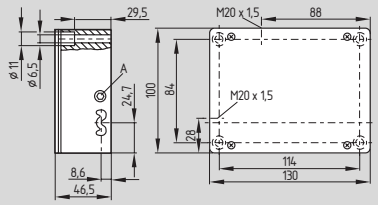
AZM 415





A: setting screw ball latch 0 - 500 N

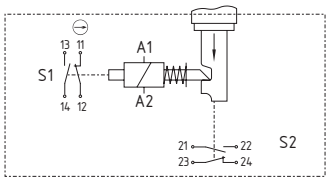
- Metal enclosure
- Two switches in one enclosure
- Problem-free opening of stressed doors by means of bell-crank system
- Robust design
- Long life
- High holding force 3500 N
- Adjustable ball latch to 500 N
- Various manual and emergency releases available
- Power to unlock/power to lock principle
- 2 cable entries M20 x 1.5
- EEx version available

Technical data

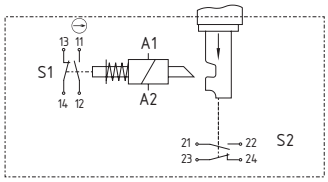
Standards:	IEC/EN 60947-5-1 BG-GS-ET-19
Enclosure:	light-alloy die-cast, enamel finish
Actuator and locking bolt:	zinc-plated metal / aluminium
Protection class:	IP 54 ordering suffix F: IP 67 to EN 60529
Contact material:	silver
Contact type:	change-over contact with double break, type Zb or 2 NC contacts, with galvanically separated contact bridges
Switching system:	⊖ IEC 60947-5-1 slow action, NC contacts with positive break
Termination:	screw terminals
Cable section:	max. 2.5 mm²
	(incl. conductor ferrules)
Cable entry:	2 x M20 x 1.5
U_{imp}:	4 kV
U_i:	250 V
I_{the}:	6 A
Utilisation category:	AC-15
I_e/U_e:	4 A / 230 VAC
Max. fuse rating:	6 A gL/gG D-fuse
Positive break travel:	5 mm
Positive break force:	min. 15 N (depending on the setting of the ball latch)
Magnet:	100% ED
U_s:	12 VDC 24 VAC/DC 110 VAC, 50/60 Hz 230 VAC, 50/60 Hz
Power consumption:	max. 10 W
Ambient temperature:	– 25 °C … + 50 °C
Mechanical life:	> 1 million operations
F_{max}:	3500 N
Latching force:	0 - 500 N (adjustable)

Contact variants

Power to unlock
2 NO
2 NC



Power to lock
2 NO
2 NC



Approvals

Ordering details

AZM 415 -22①pk②③-④-⑤

No.	Replace	Description
①	x	Protection class IP 54
	z	Protection class IP 67
②		Power to unlock
	a	Power to lock
③		Without manual release
	E	Manual release: Using triangular key
	F	Using triangular key (secured with locking screw)
	RS	With key
	T	Emergency exit using latched pushbutton
	NS	Emergency release using lock button

Ordering details

No.	Replace	Description
④	12 VDC	Us 12 VDC
	24 VAC/DC	Us 24 VAC/DC
	110 VAC	Us 110 VAC
	230 VAC	Us 230 VAC
⑤	1637	Gold-plated contacts

Note

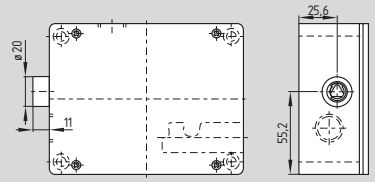
Contact symbols shown for the closed condition of the guard device.
The contacts 11-12 and 13-14 are actuated when the solenoid A1-A2 is energised or de-energised. Contact 11-12 must be integrated in the safety circuit.

Interlocks with 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 connector plugs must be ordered separately.

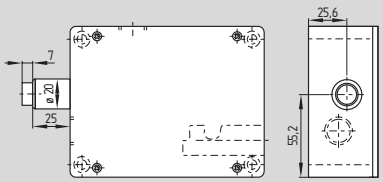
Solenoid interlocks

AZM 415-22xpkE



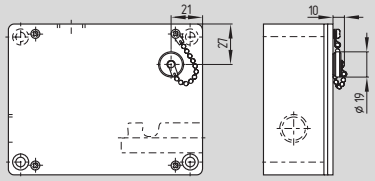
- Manual release
- Manual release by means of M5 triangular key
- M5 triangular key, available as accessory
- For maintenance, installation, etc.
- Only used on units with power to unlock principle

AZM 415-22xpkNS



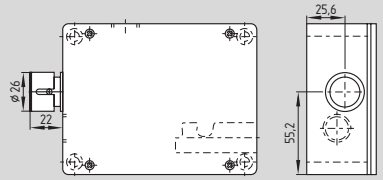
- Emergency release
- Emergency release is used where an „inadvertently locked-in“ person must leave a dangerous, already interlocked area
- Release by pressing in the lock button
- Resetting can only be carried out by authorized personnel using key
- In unlocked position the guard device is protected against unintented closing

AZM 415-22zpkF



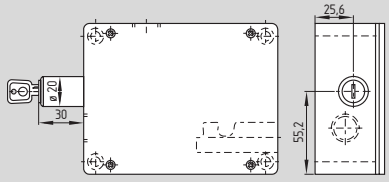
- Manual release
- Release by means of M5 triangular key After removing the sealing screw, manual release can be carried out using a M5 triangular key
- M5 triangular key, available as accessory
- A chain secures the sealing plug against loss
- Only used on units with power to unlock principle

AZM 415-22xpkT



- Emergency exit
- The emergency release is used where an intervention in an already locked hazardous area is required
- Escape release by pressing the red push button
- Reset is carried out by pressing the latching pin
- In unlocked position the guard device is protected against unintented closing

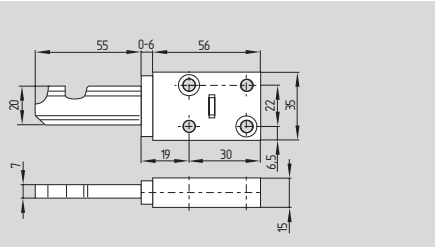
AZM 415-22xpkRS



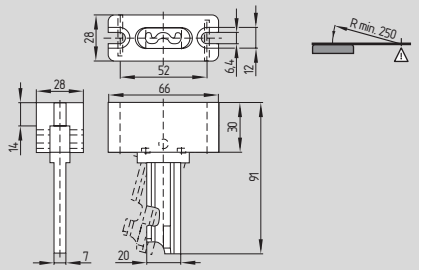
- Manual release
- Release by means of cylinder lock
- Resetting can only be carried out by authorized personnel using key
- Only used on units with power to unlock principle
- In unlocked position the guard device is protected against unintented closing

Solenoid interlocks

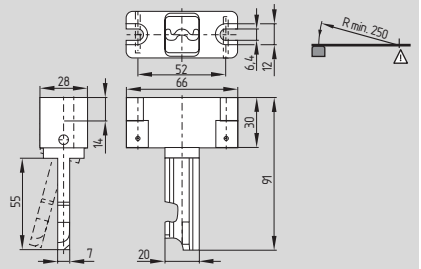
System components



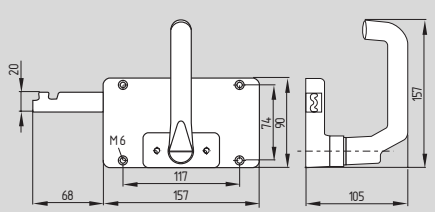
Straight actuator AZM 415-B1



Flexible actuator AZM 415-B2

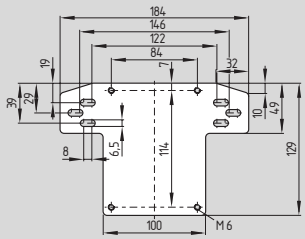


Flexible actuator AZM 415-B3

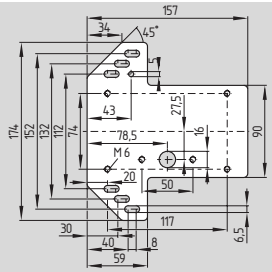


Actuator AZM 415-B30

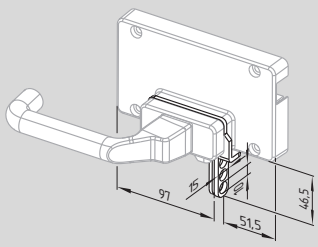
System components



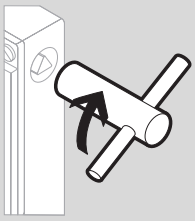
Mounting plate MP AZM 415-22



Mounting plate MP AZ/AZM 415-B30



Lockout tag SZ 415-1/-2



Triangular key M5

Ordering details

Straight actuator	**AZ/AZM 415-B1**
Flexible actuator	**AZ/AZM 415-B2**
Flexible actuator	**AZ/AZM 415-B3**

Actuator with or without emergency handle **AZ/AZM 415-B30**
A detailed product description can be found in the „Safety door andle system STS“ brochure.

Ordering details

Mounting plate	**MP AZM 415-22**
Mounting plate	**MP AZ/AZM 415-B30**
Lockout tag	**SZ 415-1/-2**
Triangular key M5	**1100887**