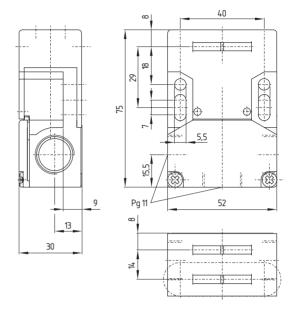
1.1 AZ 15 range





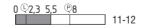


Features

- Thermoplastic enclosure
- Multiple coding
- Long life
- Double insulated
- 3 cable entries
- Large wiring compartment
- High level of contact reliability with low voltages and currents
- Not sensitive to dirty conditions by virtue of patented roller system
- Slotted holes for adjustment, circular holes for location

Contacts/
Switch travel

el 1 NC 11 → 12



With ejection force AZ 15zvk
With latching force 30 N AZ 15zvrk

Notes

Inserted position of actuator = 0 in switch travel diagram. Actuators must be ordered separately.

A selection of suitable actuators can be found in 1.4.

AZ 15 range

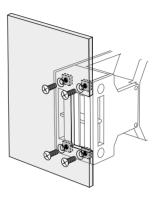






Version with M5 nuts

- For front fixing of safety switch, e.g. on sheet-steel covers
- Suitable for use with actuators AZ 15/16-B1, -B2, -B3 and -B6
- Nuts cannot be retrofitted
- Ordering suffix -1762



Ordering details

To order, select the part number of the desired switch from the table "Contacts/Switch travel", e.g. safety switch with latching force 30 N: AZ 15zvrk

Actuators and accessories are ordered separately, e.g. straight actuator with magnetic latch: AZ 15/16-B1-1747

The applicable ordering suffix is added at the end of the part number of the safety switch.

Further variants not shown here are available on enquiry.

Plug-in connection

- Available with connector M 12 x 1, ordering suffix -ST
- For suitable connector plugs, see 1.5

Info

- With cable entry M 16 x 1.5, ordering suffix -M16
- Available with 5 N latching force, ordering suffix -2254
- With gold-plated contacts (0.3 µm), ordering suffix -1637
- Alignment kit to simplify fitting, part number: Alignment kit AZ 15/16



















Diagram



















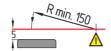




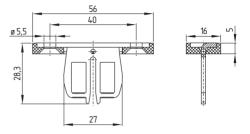
Straight actuator AZ 15/16-B1

- Particularly suitable for sliding doors
- Minimum actuating radius on hinged guards 150 mm



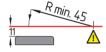


• The axis of the hinge should be 5 mm above the top edge of the safety switch and in the same plane

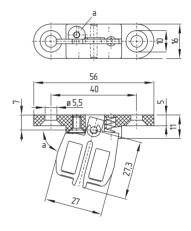


Adjustable actuator AZ 15/16-B2

- For very small actuating radii in line with the plane of the actuator
- Actuating radius adjustable, minimum 45 mm, using an hexagonal key wrench 2.5 mm A/F (a)



• The axis of the hinge should be 11 mm above the top edge of the safety switch and in the same plane

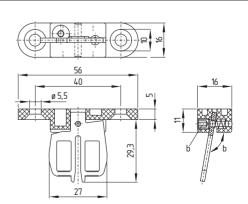


Adjustable actuator AZ 15/16-B3

- For very small actuating radii at 90° to the plane of the actuator
- Actuating radius adjustable, minimum 32 mm, using an hexagonal key wrench 2.5 mm A/F (b)



• The axis of the hinge should be 11 mm above the top edge of the safety switch and in the same plane

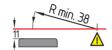




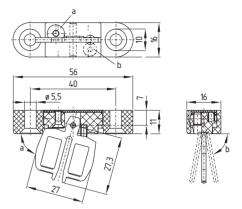
Adjustable actuator AZ 15/16-B6

- For very small actuating radii in line with or at 90° to the plane of the actuator
- Actuating radius adjustable using an hexagonal key wrench 2.5 mm A/F (a and b), minimum 25 mm at 90° to the plane of the actuator and minimum 38 mm in line with the plane of the actuator





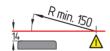
• The axis of the hinge should be 11 mm above the top edge of the safety switch and in the same plane



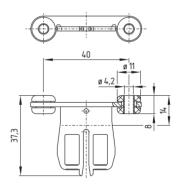
Straight actuator with rubber mountings AZ 15/16-B1-2245

- Particularly suitable for sliding doors
- Minimum actuating radius on hinged guards 150 mm
- Damps vibration on guard devices





- The axis of the hinge should be 14 mm above the top edge of the safety switch and in the same plane
- Max. 200 Ncm tightening torque for fixing the actuator

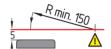




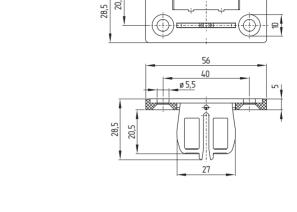
Straight actuator with magnetic latch AZ 15/16-B1-1747

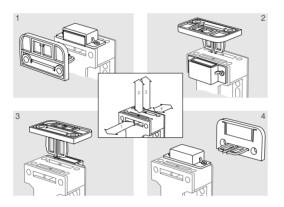
- For play-free interlocking of light guards
- Latching force 30 N
- The magnetic latch can be easily fitted in any actuating plane
- Suitable for retrofitting
- Particularly suitable for sliding doors
- Minimum actuating radius on hinged guards 150 mm

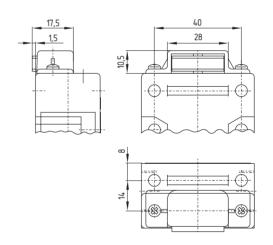




• The axis of the hinge should be 5 mm above the top edge of the safety switch and in the same plane





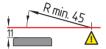


1.4 Actuators

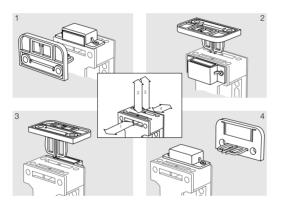


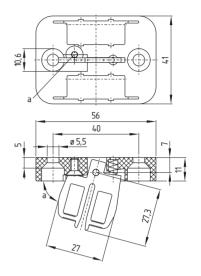
Adjustable actuator with magnetic latch AZ 15/16-B2-1747

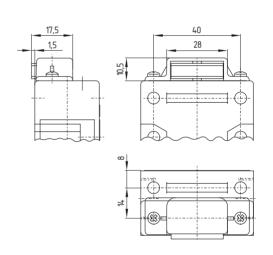
- For play-free interlocking of light guards
- Latching force 30 N
- The magnetic latch can be easily fitted in any actuating plane
- Suitable for retrofitting
- For very small actuating radii in line with the plane of the actuator
- Actuating radius adjustable, minimum 45 mm, using an hexagonal key wrench 2.5 mm A/F (a)



• The axis of the hinge should be 11 mm above the top edge of the safety switch and in the same plane







1.4 Actuators

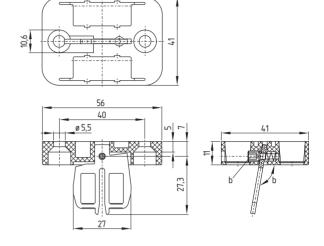


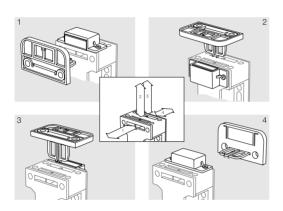
Adjustable actuator with magnetic latch AZ 15/16-B3-1747

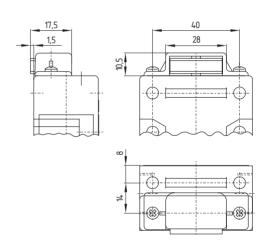
- For play-free interlocking of light guards
- Latching force 30 N
- The magnetic latch can be easily fitted in any actuating plane
- Suitable for retrofitting
- For very small actuating radii at 90° to the plane of the actuator
- Actuating radius adjustable, minimum 32 mm, using an hexagonal key wrench 2.5 mm A/F (b)



• The axis of the hinge should be 11 mm above the top edge of the safety switch and in the same plane







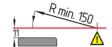
1.4 Actuators



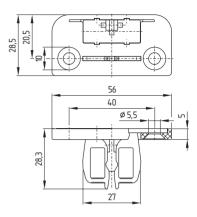
Straight actuator with ball latch AZ 15/16-B1-2053

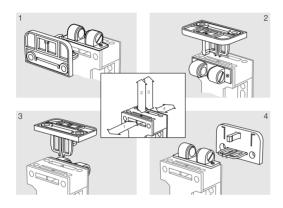
- For interlocking of light to medium-weight guards
- Latching force adjustable up to 100 N
- Particularly suitable for sliding doors
- Minimum actuating radius on hinged guards 150 mm

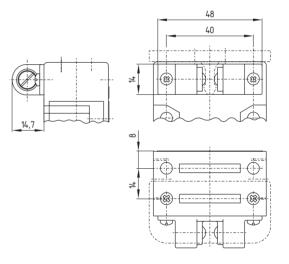




• The axis of the hinge should be 11 mm above the top edge of the safety switch and in the same plane





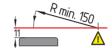




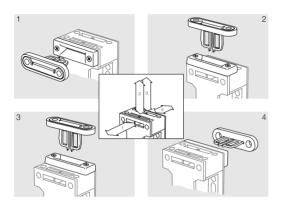
Straight actuator with centering guide AZ 15/16-B1-2177

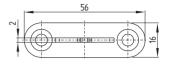
- For interlocking of light, unguided guards
- Particularly suitable for sliding doors
- Minimum actuating radius on hinged guards 150 mm

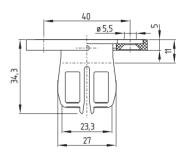


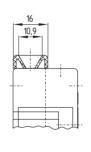


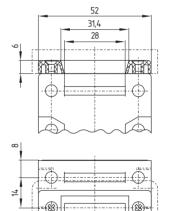
• The axis of the hinge should be 11 mm above the top edge of the safety switch and in the same plane









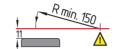




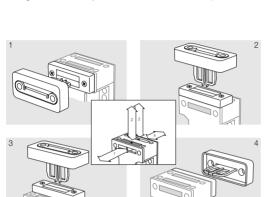
Straight actuator with slot lip-seal AZ 15/16-B1-2024

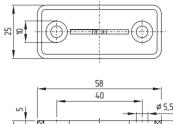
- For protection against the ingress of course dirt
- Particularly suitable for sliding doors
- Minimum actuating radius on hinged guards 150 mm

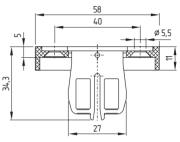


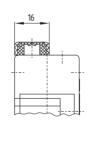


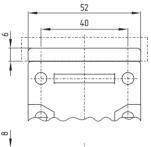
• The axis of the hinge should be 11 mm above the top edge of the safety switch and in the same plane

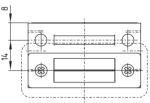








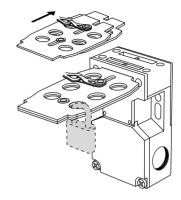






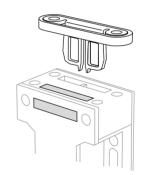
Lockout tag SZ 16/335

- To prevent inadvertent closing, e.g. during maintenance
- For complex plant
- Prevents actuation of the switch
- Up to 6 padlocks can be fitted
- The lockout tag can be fixed on a chain near to the safety switch



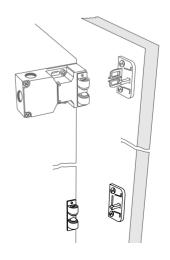
Slot sealing plug AZ 15/16-1476

- For protection against the ingress of course dirt
- To cover unused actuator slots
- Simple clip-in fitting
- Quantity required: 3 per switch



Ball latch 2053-2

- Additional ball latch for stable latching of light to medium-weight guards
- For separate mounting on the guard
- Latching force adjustable up to 100 N



1.5 Accessories



Tamperproof screws



Screw lengths

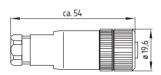
Countersunk-head screws M 5 x 12, Id. No.: 402 530 3000 M 5 x 16, Id. No.: 402 530 3001 M 5 x 20, Id. No.: 402 530 3002

Supplied in sets of 2 screws

- To mount the actuator
- Higher protection against tampering with interlock
- Protects against unauthorised removal of actuator
- Available in various lengths

Connector plug M 12 x 1 for AZ 16-ST with connector

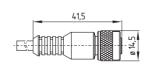




- Straight connector plug
- Unwired
- A-coding: part number Series 713

Connector plug M 12 x 1 for AZ 16-ST with connector





- Straight connector plug with pre-wired cable
- Cable 5 m long
- Conductors: 4 x 0.75 mm²
- A-coding: part number Series 763

1.5 Accessories



Mounting set MS AZ 15/16

- For simple mounting on profile systems
- Mounting of the safety switche parallel or right-angled to the safety guard

Hinweis

- The mounting sets can only be used in conjunction with actuator AZ 15/16-B6.
- Safety switch and actuator are not included in delivery.

Legend

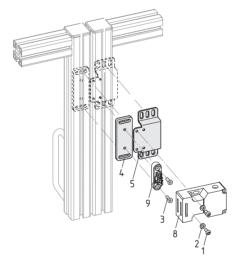
- 1 Roundhead screw M5 x 16 per ISO 7380
- 2 Washer per DIN 125-5,3
- 3 Counter sunk screw M5 x 16 per DIN 7991
- 4 Mounting plate AZ 16/AZM 161
- 5 U-profile AZ 16
- 6 Mounting angle AZ 16
- 7 Roundhead screw M5 x 10 per ISO 7380

Not provided:

- 8 Safety switch AZ 15/16
- 9 Actuator AZ 15/16-B6

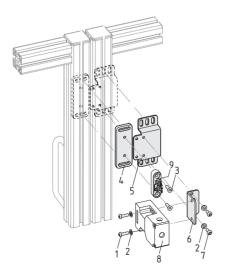
MS AZ 15/16 P

Mounting parallel to safety guard

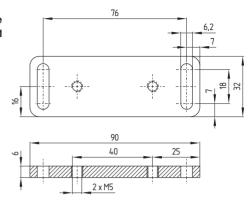


MS AZ 15/16 R/P

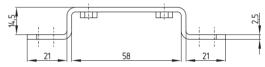
Mounting right-angled to safety guard

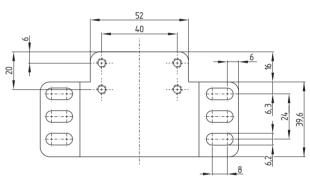


Mounting plate AZ 16/AZM 161

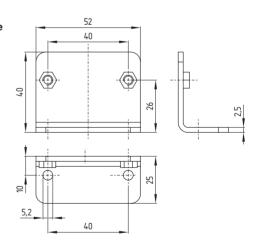


U-profile AZ 16





Mounting angle AZ 16



22 Schmersal









	AZ 15 / AZ 16	AZ 16-ST	AZ 17	
	AZ 16zi	AZ 16zi-ST	AZ 17zi	
Standards:	IEC/EN 60947-5-1; EN 1088; BG-GS-ET-15			
Enclosure material:	Glass-fibre reinforced thermoplastic, self-extinguishing			
Actuator:	Stainless steel 1.4301			
Protection class:	IP 67 to IEC/EN 60529			
Contact material:	Silver			
Contact type:	Change-over with double break Zb	Change-over with double break Zb		
	with galvanically separated contact bridges		or 2 NC contacts, with galvanically	
			separated contact bridges	
Switching system:	⊖ IEC 60947-5-1; ② BG-GS-ET-15; slow action, NC contact with positive break			
Termination:	Screw terminals for	Connector M 12 x 1,	Cut clamp (IDC) method	
	max. 2.5 mm ² cables	four pole	0.75 to 1.0 mm ² , flexible	
	(including conductor ferrules)			
Rated impulse				
withstand voltage U _{imp} :	6 kV		4 kV	
·				
Rated insulation				
voltage U _i :	500 V		250 V	
Thermal test current Ith:	10 A			
Utilisation category:	AC-15; DC-13		AC-15	
Rated operating				
current/voltage I _e /U _e :	4 A/230 VAC; 4 A/24 VDC		4 A/230 V	
Max. fuse rating:	6 A gL/gG D-fuse		4 A (slow blow)	
Positive break travel:	8 mm		11 mm	
Positive break force:	10 N for each NC contact fitted		17 N for each NC contact fitted	
Ambient temperature:	– 30 °C + 80 °C			
Mechanical life:	> 1 million operations			
C€	·			