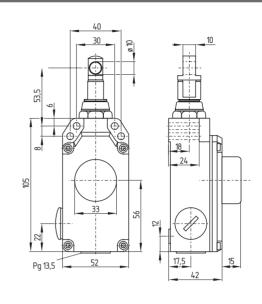
6. Command devices

6.1 Pull-wire emergency stop switches

6.1.1 One-side operation

6.1.1.1 ZS 71 range





Features

- To EN 418
- Metal enclosure
- 2 contacts
- Small body
- 2 cable entries
- Various spring force variants (actuating forces)
- Wire up to 20 m long
- Reset by push button or key possible
- Twisting not possible
- Optional position indicator
- Available with external watertight collar
- Indicator lamp available on request for various voltages
- EEx version certified by PTB to EEx d IIC T6; see chapter 14.5.1
- Wire pull and breakage functions

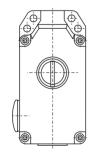
Info

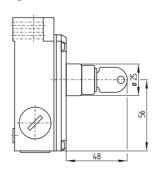
• Cable entry M 20 x 1.5, ordering suffix -M20

Note

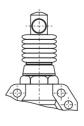
For tensioned span lengths over 5 m, intermediate wire supports are required, see accessories 6.1.3.

Key reset





Watertight collar



Approvals





Command devices 6.

Pull-wire emergency stop switches 6.1

One-side operation 6.1.1

ZS 71 range 6.1.1.1

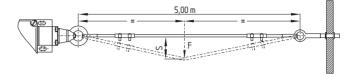
Actuating deflection/ force

The values quoted relate to the switch being mounted in an ambient temperature of 20 °C.

Stretching of the wire due to elongation and deformation of the wire thimbles has not been taken into account.

The actuating forces given are only guide values, since the spring forces are subject

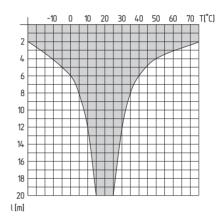
Actuating deflections and forces relate to a 5 m long wire.



Pre- tensioning force [N]	Actuating deflection S [cm]	Actuating force F [N]	Ordering suffix
55	11	6	-55N
200	11	25	-200N

Temperature range

Recommended cable lengths for pull-wire Emergency Stop switches in relation to the range of ambient temperature.



Contacts/ Switch travel

1 NO 1 NC

2 NC



Key reset

Push button reset, watertight collar

Key reset, watertight collar

Push button reset, position indicator

Key reset, position indicator

Push button reset, watertight collar, position indicator

Key reset, watertight collar, position indicator

Push button reset, indicator lamp

Key reset, indicator lamp

Push button reset, watertight collar, indicator lamp

Key reset, watertight collar, indicator lamp

Push button reset, watertight collar, position indicator,

indicator lamp

Key reset, watertight collar, position indicator,

indicator lamp

Ordering

Schmersal Industrial Switchgean

ZS 71 range pull-wire emergency stop switch for one-side operation with one NO contact and one NC contact, indicator lamp and push button reset: ZS 71 1Ö/1S VDG



ZS 71 1Ö/1S VD

ZS 71 1Ö/1S VS **ZS 71 1Ö/1S WVD**

ZS 71 1Ö/1S WVS

ZS 71 1Ö/1S VDA

ZS 71 1Ö/1S VSA

ZS 71 1Ö/1S WVDA

ZS 71 1Ö/1S WVSA

ZS 71 1Ö/1S VDG

ZS 71 1Ö/1S VSG

ZS 71 1Ö/1S WVDG

ZS 71 1Ö/1S WVSG

ZS 71 1Ö/1S WVDAG

ZS 71 1Ö/1S WVSAG



ZS 71 2Ö VD

ZS 71 2Ö VS

ZS 71 2Ö WVD

ZS 71 2Ö WVS

ZS 71 2Ö WVDA

ZS 71 2Ö WVSA

details

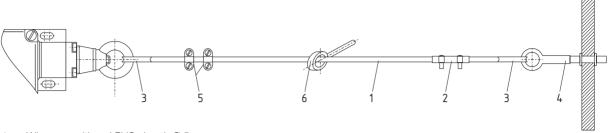
325

6. Command devices

6.1 Pull-wire emergency stop switches

6.1.3 Accessories

One-side operation



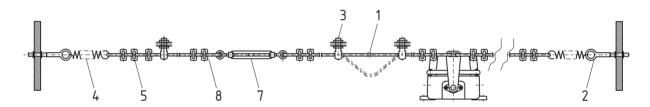
Legend

- Wire rope with red PVC sheath Ø 5 mm (steel core: Ø 3 mm)
- 2 Duplex clamp
- 3 Wire thimble
- 4 Eyebolt 8 mm
- 5 Wire clamp 3 mm
- 6 Wire support, eyebolt M 8

Note

For tensioned span lengths over 5 m, intermediate wire supports are required.

Two-side operation



Legend

- Wire rope with red PVC sheath Ø 5 mm (steel core: Ø 3 mm)
- 2 Eyebolt BM 10 x 40
- 3 Hexagon nut BM 10
- 4 Tension spring of stainless steel ordering part number RZ-136E

- 5 Wire clamp 5 mm
- 6 Wire support, see illustration for one-side operation
- 7 Tensioning jack M6
- 8 Wire thimble 5B 5 mm

Note

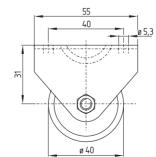
No free-hanging length of wire should exceed 5 m

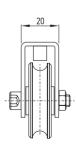
Pulley

- To guide the wire rope where the path is not a straight line
- For Ø 5 mm wire with red PVC sheath (steel core: Ø 3 mm)

Note

According to EN 418, pulleys may only be mounted such that the complete length of the pull-wire can be observed.







6.1.3 Accessories

Wire clamp

- 3 mm wire clamp
- 5 mm wire clamp
- Ordering unit: 1 piece



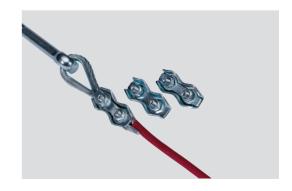
Egg-shaped wire clamp

- For wire rope Ø 3 mm steel core
- Ordering unit: 1 piece



Duplex wire clamp

- Duplex wire clamp
- For wire rope Ø 3 mm steel core
- Ordering unit: 1 piece







6.1.3 Accessories

Wire thimbles

- To DIN 6899
- For wire rope Ø 3 mm, ordering part number: Wire thimble 3B
- For wire rope Ø 5 mm, ordering part number: Wire thimble 5B
- Ordering unit: 1 piece



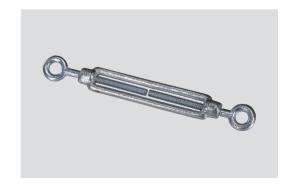
Eyebolts

- To DIN 444
- Eyebolt M 8 x 70 without nut, length referring to eye centre: 70 mm, thread length: 35 mm, thread: M 8 x 1.5
- Eyebolt BM 10 x 40 including nut (not shown) length referring to eye centre: 40 mm, thread: M 10 x 1.5
- Ordering unit: 1 piece



Tensioner M6

- For exact adjustment of the tension of the wire rope
- Adjustable from 145 mm to 225 mm
- To DIN 1480



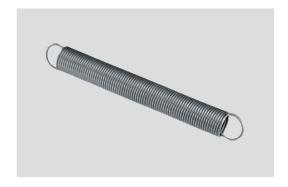




6.1.3 Accessories

Tension spring

- Only for T3Z 068 and ZS 75 S
- To maintain the reaction force
- Ordering part number RZ-136E
- Length approx. 185 mm without tension



Wire rope

- Steel core Ø 3 mm
- With red PVC sheath
- Ø 5 mm total





6. Command devices

6.4 Technical data



	ZS 71	Z S 73	Z S 75
Standards:	IEC/EN 60947-5-1; EN 418		
Certificates:	BIA (BG) No. 973003		
Enclosure material:	Cast aluminium, enamelled		
Cover:	Thermoplastic	Cast aluminium, enamelled	
Protection class:	IP 54, IP 65 for version with push but	ton reset and watertight collar	
	to IEC/EN 60529		
Contact material:	Silver		
Contact type:	Change-over with double break		Change-over with
	or 2 NC contacts		double break
			or 2 NO and 2 NC
			or 4 NC contacts
Switching system:	⊖ IEC 60947-5-1		
	Snap action with positive break NC co	ontacts	
Termination:	Screw terminals for max. 2.5 mm ² ca	bles (including conductor ferrules)	
Rated impulse			
withstand voltage U _{imp} :	6 kV		
Rated insulation voltage U_i :	400 V		
Thermal test current Ith:	6 A		
Utilisation category:	AC-15		
Rated operating			
current/voltage I _e /U _e :	6 A/400 VAC		
Max. fuse rating:	6 A (slow blow)		
Torque for positive break:	-		
Angle for positive			
break travel:	-		
Force for positive break:	-		
Actuating force:	-		
Ambient temperature:	– 25 °C + 70 °C		
Mechanical life:	> 1 million operations		
Indicator lamp:	-		

C€