




Emergency pull-wire switch ZS 70

Features/Options:

- Thermoplastic enclosure
- 2 contacts
- Mounting details to EN 50041
- Small design
- Wire length up to 10 m
- Release by push-button (VD)
- Available without unlocking mechanism (to EN 60947-5-1)
- Wire pull and breakage detection

Technical data

Applied standards	EN 60947-5-1, -5; EN ISO 13850; EN ISO 13849-1
Enclosure	glass-fibre reinforced, shock-proof thermoplastic, self-extinguishing UL 94 V-0
Cover	glass-fibre reinforced, shock-proof thermoplastic, self-extinguishing UL 94 V-0
Degree of protection	IP 67 to IEC/EN 60529
Contact material	silver
Switching elements	1 NC/1 NO contact or 2 NC contacts, type Zb
Switching system	snap action, positive break NC contacts ⊖
Connection	screw connection terminals
Cable cross-section	max. 2.5 mm ² (incl. conductor ferrules)
Cable entry	1 x M20 x 1.5
B _{10d} (10 % load)	200 000
T _M	max. 20 years
Rated impulse withstand voltage U _{imp}	6 kV
Rated operating isolation voltage U _i	400 V
Conventional thermal current I _{the}	6 A
Utilisation category	AC-15
Rated operating current/voltage I _e /U _e	6 A/400 VAC
Max. fuse rating	6 A gG/gN fuse
Ambient temperature	-25 °C ... +70 °C
Mechanical life	> 100 000 operations
Max. wire length	10 m
Approvals	

Errors and omissions excepted.



Emergency pull-wire switch ZS 70

Ordering details



Snap action
1 NC/1 NO contact

Type
ZS 70 1Ö/1S VD

Material no.
1178365



Snap action
2 NC contacts

Type
ZS 70 2Ö VD

Material no.
1178380

Accessories



Cable Tensioner System TS 65
5704

Type
Cable Tensioner System TS 65

Material no.
1186621



Tensioner







Type
Tensioner M6
Tensioner M8 stainless steel

Material no.
1033254
1033300



Emergency pull-wire switch ZS 70

Accessories

	Pull-wire	Type Pull-wire Ø 5 mm per metre Pull-wire stainless steel Ø 5 mm per metre	Material no. 1032984 1033297
	Pull-wire set	Type Complete pull-wire set, 5 m Complete pull-wire set, 10 m Complete pull-wire set, 15 m Complete pull-wire set, 20 m Complete pull-wire set, 25 m Complete pull-wire set, 30 m Complete pull-wire set, 40 m Complete pull-wire set, 50 m	Material no. 1041628 1041633 1041634 1041645 1041635 1041641 1041647 1041642
	Pulley 3388	Type Pulley	Material no. 1041765
	Wire clamp	Type Wire clamp 3 mm Wire clamp 3 mm stainless steel	Material no. 1033247 1033299
	Duplex wire clamp 3410	Type Duplex wire clamp	Material no. 1033248
	Egg-shaped wire clamp 3412	Type Egg-shaped wire clamp	Material no. 1181896

Errors and omissions excepted.



Emergency pull-wire switch ZS 70

Accessories



Wire thimble

Type
Wire thimble 3 mm
Wire thimble 3 mm stainless steel

Material no.
1033245
1172707



Eye bolt

Type
Eye bolt M8 x 70 with nut
Eye bolt BM8 x 70 with nut, stainless steel
Eye bolt BM10 x 40 with nut

Material no.
1170601
1189687
1032610



Eye bolt open

Type
Eye bolt open M10 x 70 with 2 nuts

Material no.
1279170



Emergency pull-wire switch ZS 71

Features/Options:

- Metal enclosure
- 3 contacts
- Small design
- Wire length up to 35 m
- Release by push-button (VD) or key (VS) possible
- Available without unlocking mechanism (to EN 60947-5-1)
- Wire pull and breakage detection
- Watertight collar W for protection against penetration of dirt available
- Ex version available
- Version with higher degree of protection IP 69 available - see chapter [/ ZS 71 IP69 Niro Extreme >](#)
- Version for low temperatures down to -40 °C with high degree of protection IP 67 available - see chapter [/ ZS 71 IP67 -40°C Extreme >](#)

Technical data

Applied standards	EN 60947-5-1, -5; EN ISO 13850; EN ISO 13849-1
Enclosure	aluminium die-cast, powder-coated
Cover	glass-fibre reinforced, shock-proof thermoplastic, self-extinguishing UL 94 V-0
Degree of protection	ZS 71 VD and WVD: IP 65; ZS 71 VS and WVS: IP 54 to IEC/EN 60529
Contact material	silver
Switching system	snap action, positive break NC contacts \ominus
Switching elements	2 NC/1 NO contact, type Zb
Connection	screw connection terminals
Cable cross-section	max. 2.5 mm ² (incl. conductor ferrules)
Cable entry	2 x M20 x 1.5
B _{10d} (10 % load)	200 000
T _M	max. 20 years
Rated impulse withstand voltage U _{imp}	6 kV
Rated operating isolation voltage U _i	400 V
Conventional thermal current I _{the}	2 A
Utilisation category	AC-15
Rated operating current/voltage I _e /U _e	2 A/250 VAC
Max. fuse rating	2 A gG/gN fuse
Ambient temperature	-25 °C ... +70 °C
Mechanical life	> 100 000 operations
Indicator lamp	as option
Max. wire length	35 m

Errors and omissions excepted.



Emergency pull-wire switch ZS 71

Technical data

Approvals



Ordering details



Release by push button

Type
ZS 71 2Ö/1S VD / 100 N

Material no.
1185002



Release by push button +
watertight collar

Type
ZS 71 2Ö/1S WVD / 100 N

Material no.
1185001



Release by key

Type
ZS 71 2Ö/1S VS / 100 N

Material no.
1188704



Release by key + watertight
collar

Type
ZS 71 2Ö/1S WVS / 100 N

Material no.
1188725



Emergency pull-wire switch ZS 71

Ordering details



Release by push button +
position indicator

Type
ZS 71 2Ö/1S VD-A / 100 N

Material no.
1187956



Release by push button +
watertight collar + position
indicator

Type
ZS 71 2Ö/1S WVD-A / 100 N

Material no.
1182987



Release by key + position
indicator

Type
ZS 71 2Ö/1S VS-A / 100 N

Material no.
1188726

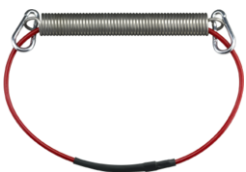


Release by key + watertight
collar + position indicator

Type
ZS 71 2Ö/1S WVS-A / 100 N

Material no.
1188727

Accessories



Compensation spring ZS 71

Type
Compensation spring ZS 71-100N
Compensation spring ZS 71 Niro-100N

Material no.
1187921
1387683



Emergency pull-wire switch ZS 71

Accessories



Cable Tensioner System TS 65
5704

Type
Cable Tensioner System TS 65

Material no.
1186621



Tensioner

Type
Tensioner M6
Tensioner M8 stainless steel

Material no.
1033254
1033300



Indicator lamp glow lamp

Type
Indicator lamp glow lamp 24 VDC

Material no.
1164937



Indicator lamp 24 V

Type
Indicator lamp 24 VAC DC

Material no.
1348797



Indicator lamp Multi-LED red

Type
Indicator lamp Multi-LED RD 24 VDC
Indicator lamp Multi-LED RD 115 VAC
Indicator lamp Multi-LED RD 230 VAC

Material no.
1169219
1169221
1178917



Indicator lamp Multi-LED white







Type
Indicator lamp Multi-LED WH 24 VDC
Indicator lamp Multi-LED WH 115 VAC
Indicator lamp Multi-LED WH 230 VAC

Material no.
1169220
1169222
1178916



Emergency pull-wire switch ZS 71

Accessories

	Pull-wire	Type Pull-wire Ø 5 mm per metre Pull-wire stainless steel Ø 5 mm per metre	Material no. 1032984 1033297
	Pull-wire set	Type Complete pull-wire set, 5 m Complete pull-wire set, 10 m Complete pull-wire set, 15 m Complete pull-wire set, 20 m Complete pull-wire set, 25 m Complete pull-wire set, 30 m Complete pull-wire set, 40 m Complete pull-wire set, 50 m	Material no. 1041628 1041633 1041634 1041645 1041635 1041641 1041647 1041642
	Pulley 3388	Type Pulley	Material no. 1041765
	Wire clamp	Type Wire clamp 3 mm Wire clamp 3 mm stainless steel	Material no. 1033247 1033299
	Duplex wire clamp 3410	Type Duplex wire clamp	Material no. 1033248
	Egg-shaped wire clamp 3412	Type Egg-shaped wire clamp	Material no. 1181896

Errors and omissions excepted.



Emergency pull-wire switch ZS 71

Accessories



Wire thimble

Type
Wire thimble 3 mm
Wire thimble 3 mm stainless steel

Material no.
1033245
1172707



Eye bolt

Type
Eye bolt M8 x 70 with nut
Eye bolt BM8 x 70 with nut, stainless steel
Eye bolt BM10 x 40 with nut

Material no.
1170601
1189687
1032610



Eye bolt open

Type
Eye bolt open M10 x 70 with 2 nuts

Material no.
1279170



Emergency pull-wire switch ZS 73

Features/Options:

- Metal enclosure
- 2 contacts
- Wire length up to 130 m
- 2 different spring force variants available
- Release by push-button (VD) or key (VS) possible
- Available without unlocking mechanism (to EN 60947-5-1)
- Wire pull and breakage detection
- Indicator lamps for various voltages can be found in the chapter Accessories in the Appendix
- Watertight collar W for protection against penetration of dirt available
- With 2 cable entries available on request
- Ex version available
- Niro version available with pull-wire lever and screws made of stainless steel 1.4305 and hard-coated enclosure with enamel finish - see chapter [/ZS 73 Niro hard-coated Extreme >](#)
- Version for low temperatures down to -40 °C available - see chapter [/ZS 73 -40°C Extreme >](#)

Technical data

Applied standards	EN 60947-5-1, -5; EN ISO 13850; EN ISO 13849-1
Enclosure	aluminium die-cast, enamel finish
Cover	glass-fibre reinforced, shock-proof thermoplastic, self-extinguishing UL 94 V-0
Degree of protection	ZS 73 WVD: IP 65; ZS 73 VD, ZS 73 VS and ZS 73 WVS: IP 54 to IEC/EN 60529
Contact material	silver
Switching elements	1 NC/1 NO contact or 2 NC contacts, type Zb
Switching system	snap action, positive break NC contacts ⊖
Connection	screw connection terminals
Cable cross-section	max. 2.5 mm ² (incl. conductor ferrules)
Cable entry	1 x M16 x 1.5
B _{10d} (10 % load)	200 000
T _M	max. 20 years
Rated impulse withstand voltage U _{imp}	6 kV
Rated operating isolation voltage U _i	400 V
Conventional thermal current I _{the}	6 A
Utilisation category	AC-15
Rated operating current/voltage I _e /U _e	6 A/400 VAC
Max. fuse rating	6 A gG/gN fuse
Ambient temperature	-25 °C ... +70 °C
Mechanical life	> 100 000 operations
Indicator lamp	as option

Errors and omissions excepted.



Emergency pull-wire switch ZS 73

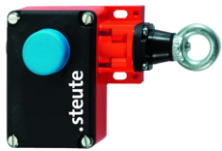
Technical data

Max. wire length 130 m

Approvals



Ordering details



Release by push button

Type
 ZS 73 1Ö/1S VD / 295-390 N
 ZS 73 1Ö/1S VD / 120-180 N
 ZS 73 2Ö VD / 295-390 N
 ZS 73 2Ö VD / 120-180 N

Material no.
 1048208
 1048218
 1048242
 1163665



Release by key

Type
 ZS 73 1Ö/1S VS / 295-390 N
 ZS 73 1Ö/1S VS / 120-180 N
 ZS 73 2Ö VS / 295-390 N
 ZS 73 2Ö VS / 120-180 N

Material no.
 1048209
 on request
 1052621
 on request



Release by push button +
watertight collar

Type
 ZS 73 1Ö/1S WVD / 295-390 N
 ZS 73 1Ö/1S WVD / 120-180 N
 ZS 73 2Ö WVD / 295-390 N
 ZS 73 2Ö WVD / 120-180 N

Material no.
 1048225
 1048233
 1048249
 1048258



Release by key + watertight
collar

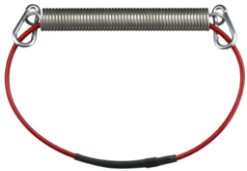
Type
 ZS 73 1Ö/1S WVS / 295-390 N
 ZS 73 1Ö/1S WVS / 120-180 N
 ZS 73 2Ö WVS / 295-390 N
 ZS 73 2Ö WVS / 120-180 N

Material no.
 1048226
 on request
 on request
 on request



Emergency pull-wire switch ZS 73

Accessories



Compensation spring ZS 73/75

Type
Compensation spring ZS 73/75-200N
Compensation spring ZS 73/75-400N

Material no.
1187931
1187934



Cable Tensioner System TS 65
5704

Type
Cable Tensioner System TS 65

Material no.
1186621



Tensioner

Type
Tensioner M6
Tensioner M8 stainless steel

Material no.
1033254
1033300



Indicator lamp glow lamp

Type
Indicator lamp glow lamp 24 VDC

Material no.
1164937



Indicator lamp 24 V







Type
Indicator lamp 24 VAC DC

Material no.
1348797



Emergency pull-wire switch ZS 73

Accessories

	Indicator lamp Multi-LED red	Type Indicator lamp Multi-LED RD 24 VDC Indicator lamp Multi-LED RD 115 VAC Indicator lamp Multi-LED RD 230 VAC	Material no. 1169219 1169221 1178917
	Indicator lamp Multi-LED white	Type Indicator lamp Multi-LED WH 24 VDC Indicator lamp Multi-LED WH 115 VAC Indicator lamp Multi-LED WH 230 VAC	Material no. 1169220 1169222 1178916
	Pull-wire	Type Pull-wire Ø 5 mm per metre Pull-wire stainless steel Ø 5 mm per metre	Material no. 1032984 1033297
	Pull-wire set	Type Complete pull-wire set, 5 m Complete pull-wire set, 10 m Complete pull-wire set, 15 m Complete pull-wire set, 20 m Complete pull-wire set, 25 m Complete pull-wire set, 30 m Complete pull-wire set, 40 m Complete pull-wire set, 50 m	Material no. 1041628 1041633 1041634 1041645 1041635 1041641 1041647 1041642
	Pulley 3388	Type Pulley	Material no. 1041765
	Wire clamp	Type Wire clamp 3 mm Wire clamp 3 mm stainless steel	Material no. 1033247 1033299

Errors and omissions excepted.



Emergency pull-wire switch ZS 73

Accessories



Duplex wire clamp 3410

Type
Duplex wire clamp

Material no.
1033248



Egg-shaped wire clamp 3412

Type
Egg-shaped wire clamp

Material no.
1181896



Wire thimble

Type
Wire thimble 3 mm
Wire thimble 3 mm stainless steel

Material no.
1033245
1172707



Eye bolt

Type
Eye bolt M8 x 70 with nut
Eye bolt BM8 x 70 with nut, stainless steel
Eye bolt BM10 x 40 with nut

Material no.
1170601
1189687
1032610



Eye bolt open

Type
Eye bolt open M10 x 70 with 2 nuts

Material no.
1279170



Emergency pull-wire switch ZS 75

Features/Options:

- Metal enclosure
- 2 or 4 contacts
- Wire length up to 130 m
- 2 different spring force variants available
- Release by push-button (VD) or key (VS) possible
- Available without unlocking mechanism (to EN 60947-5-1)
- Wire pull and breakage detection
- Indicator lamps for various voltages can be found in the chapter Accessories in the Appendix
- Watertight collar W for protection against penetration of dirt available
- Version with Dupline or Dupline Safe available on request
- Ex version available
- Version for low temperatures down to -40 °C available - see chapter [/ ZS 75 -40°C Extreme >](#)

Technical data

Applied standards	EN 60947-5-1, -5; EN ISO 13850; EN ISO 13849-1
Enclosure	aluminium die-cast, powder-coated
Cover	aluminium die-cast, powder-coated
Degree of protection	ZS 75 WVD: IP 65; ZS 75 VD, ZS 75 VS and ZS 75 WVS: IP 54 to IEC/EN 60529
Contact material	silver
Switching elements	1 NC/1 NO contact, 2 NC/2 NO contacts or 4 NC contacts, type Zb
Switching system	snap action, positive break NC contacts ⊖
Connection	screw connection terminals
Cable cross-section	max. 2.5 mm ² (incl. conductor ferrules)
Cable entry	2 x M25 x 1.5
B _{10d} (10 % load)	200 000
T _M	max. 20 years
Rated impulse withstand voltage U _{imp}	6 kV
Rated operating isolation voltage U _i	400 V
Conventional thermal current I _{the}	6 A
Utilisation category	AC-15
Rated operating current/voltage I _e /U _e	6 A/400 VAC
Max. fuse rating	6 A gG/gN fuse
Ambient temperature	-25 °C ... +70 °C
Mechanical life	> 100 000 operations
Indicator lamp	as option
Max. wire length	130 m

Errors and omissions excepted.



Emergency pull-wire switch ZS 75

Technical data

Approvals



Ordering details



Release by push button

Type

ZS 75 1Ö/1S VD / 295-390 N
 ZS 75 1Ö/1S VD / 120-180 N
 ZS 75 2Ö/2S VD / 295-390 N
 ZS 75 2Ö/2S VD / 120-180 N
 ZS 75 4Ö VD / 295-390 N
 ZS 75 4Ö VD / 120-180 N

Material no.

1048345
 1048348
 1048414
 1048416
 1052558
 1178721



Release by push button +
watertight collar

Type

ZS 75 1Ö/1S WVD / 295-390 N
 ZS 75 1Ö/1S WVD / 120-180 N
 ZS 75 2Ö/2S WVD / 295-390 N
 ZS 75 2Ö/2S WVD / 120-180 N
 ZS 75 4Ö WVD / 295-390 N
 ZS 75 4Ö WVD / 120-180 N

Material no.

1048351
 1184425
 1048429
 1048431
 1053134
 1052560



Release by key

Type

ZS 75 1Ö/1S VS / 295-390 N
 ZS 75 1Ö/1S VS / 120-180 N
 ZS 75 2Ö/2S VS / 295-390 N
 ZS 75 2Ö/2S VS / 120-180 N
 ZS 75 4Ö VS / 295-390 N
 ZS 75 4Ö VS / 120-180 N

Material no.

1048346
 on request
 1048419
 1048421
 on request
 on request



Release by key + watertight
collar

Type

ZS 75 1Ö/1S WVS / 295-390 N
 ZS 75 1Ö/1S WVS / 120-180 N
 ZS 75 2Ö/2S WVS / 295-390 N
 ZS 75 2Ö/2S WVS / 120-180 N
 ZS 75 4Ö WVS / 120-180 N
 ZS 75 4Ö WVS / 295-390 N

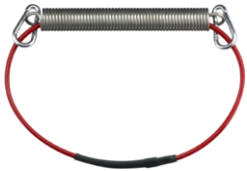
Material no.

1048352
 on request
 1048434
 1048436
 on request
 on request



Emergency pull-wire switch ZS 75

Accessories



Compensation spring ZS 73/75

Type
Compensation spring ZS 73/75-200N
Compensation spring ZS 73/75-400N

Material no.
1187931
1187934



Cable Tensioner System TS 65
5704

Type
Cable Tensioner System TS 65

Material no.
1186621



Tensioner

Type
Tensioner M6
Tensioner M8 stainless steel

Material no.
1033254
1033300



Indicator lamp glow lamp

Type
Indicator lamp glow lamp 24 VDC

Material no.
1164937



Indicator lamp 24 V







Type
Indicator lamp 24 VAC DC

Material no.
1348797



Emergency pull-wire switch ZS 75

Accessories

	Indicator lamp Multi-LED red	Type Indicator lamp Multi-LED RD 24 VDC Indicator lamp Multi-LED RD 115 VAC Indicator lamp Multi-LED RD 230 VAC	Material no. 1169219 1169221 1178917
	Indicator lamp Multi-LED white	Type Indicator lamp Multi-LED WH 24 VDC Indicator lamp Multi-LED WH 115 VAC Indicator lamp Multi-LED WH 230 VAC	Material no. 1169220 1169222 1178916
	Reduction ring	Type Reduction ring M25x1.5 / M20x1.5	Material no. 1166047
	Pull-wire	Type Pull-wire Ø 5 mm per metre Pull-wire stainless steel Ø 5 mm per metre	Material no. 1032984 1033297
	Pull-wire set	Type Complete pull-wire set, 5 m Complete pull-wire set, 10 m Complete pull-wire set, 15 m Complete pull-wire set, 20 m Complete pull-wire set, 25 m Complete pull-wire set, 30 m Complete pull-wire set, 40 m Complete pull-wire set, 50 m	Material no. 1041628 1041633 1041634 1041645 1041635 1041641 1041647 1041642
	Pulley 3388	Type Pulley	Material no. 1041765

Errors and omissions excepted.



Emergency pull-wire switch ZS 75

Accessories



Wire clamp

Type
Wire clamp 3 mm
Wire clamp 3 mm stainless steel

Material no.
1033247
1033299



Duplex wire clamp 3410

Type
Duplex wire clamp

Material no.
1033248



Egg-shaped wire clamp 3412

Type
Egg-shaped wire clamp

Material no.
1181896



Wire thimble

Type
Wire thimble 3 mm
Wire thimble 3 mm stainless steel

Material no.
1033245
1172707



Eye bolt

Type
Eye bolt M8 x 70 with nut
Eye bolt BM8 x 70 with nut, stainless steel
Eye bolt BM10 x 40 with nut

Material no.
1170601
1189687
1032610



Eye bolt open

Type
Eye bolt open M10 x 70 with 2 nuts

Material no.
1279170



Emergency pull-wire switch ZS 80

Features/Options:

- Metal enclosure
- 4 contacts
- Position indicator and integrated emergency-stop push-button
- Wire length up to 100 m
- Spring force variant: 100 N
- Lever for release and position indication
- Watertight collar
- Wire pull and breakage detection
- Indicator lamps for various voltages can be found in the chapter Accessories in the Appendix
- Corrosion-resistant version with high degree of protection IP 67 available - see chapter [/ ZS 80 KST IP67 Niro Extreme >](#)

Technical data

Applied standards	EN 60947-5-1, -5; EN ISO 13850; EN ISO 13849-1
Enclosure	aluminium die-cast, powder-coated
Cover	glass-fibre reinforced, shock-proof thermoplastic, self-extinguishing UL 94 V-0
Degree of protection	IP 67 to IEC/EN 60529
Contact material	silver
Switching elements	2 NC/2 NO, 3 NC/1 NO or 4 NC contacts, type Zb
Switching system	slow action, positive break NC contacts ⊖
Connection	2 x 4 pole terminal block
Cable cross-section	max. 2.5 mm ² (incl. conductor ferrules)
Cable entry	3 x M20 x 1.5
B _{10d} (10 % load)	200 000
T _M	max. 20 years
Rated impulse withstand voltage U _{imp}	2.5 kV
Rated operating isolation voltage U _i	250 V
Conventional thermal current I _{the}	2 A
Utilisation category	AC-15; DC-13
Rated operating current/voltage I _e /U _e	2 A/250 VAC; 0.25 A/230 VDC; 2 A/24 VDC
Max. fuse rating	2 A gG/gN fuse
Ambient temperature	-25 °C ... +70 °C
Mechanical life	> 100 000 operations
Indicator lamp	as option
Max. wire length	100 m

Errors and omissions excepted.



Emergency pull-wire switch ZS 80

Technical data

Approvals



Ordering details



Slow action
2 NC/2 NO contacts

Type
ZS 80 2Ö/2S WVD

Material no.
1177916



Slow action
3 NC/1 NO contact

Type
ZS 80 3Ö/1S WVD

Material no.
1178758

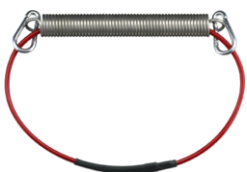


Slow action
4 NC contacts

Type
ZS 80 4Ö WVD

Material no.
1178759

Accessories



Compensation spring ZS 80 8804

Type
Compensation spring ZS 80

Material no.
1187933

Errors and omissions excepted.



Emergency pull-wire switch ZS 80

Accessories



Cable Tensioner System TS 65
5704

Type
Cable Tensioner System TS 65

Material no.
1186621



Tensioner

Type
Tensioner M6
Tensioner M8 stainless steel

Material no.
1033254
1033300



Indicator lamp glow lamp

Type
Indicator lamp glow lamp 24 VDC

Material no.
1164937



Indicator lamp 24 V

Type
Indicator lamp 24 VAC DC

Material no.
1348797



Indicator lamp Multi-LED red

Type
Indicator lamp Multi-LED RD 24 VDC
Indicator lamp Multi-LED RD 115 VAC
Indicator lamp Multi-LED RD 230 VAC

Material no.
1169219
1169221
1178917



Indicator lamp Multi-LED white







Type
Indicator lamp Multi-LED WH 24 VDC
Indicator lamp Multi-LED WH 115 VAC
Indicator lamp Multi-LED WH 230 VAC

Material no.
1169220
1169222
1178916



Emergency pull-wire switch ZS 80

Accessories

	Pull-wire	Type Pull-wire Ø 5 mm per metre Pull-wire stainless steel Ø 5 mm per metre	Material no. 1032984 1033297
	Pull-wire set	Type Complete pull-wire set, 5 m Complete pull-wire set, 10 m Complete pull-wire set, 15 m Complete pull-wire set, 20 m Complete pull-wire set, 25 m Complete pull-wire set, 30 m Complete pull-wire set, 40 m Complete pull-wire set, 50 m	Material no. 1041628 1041633 1041634 1041645 1041635 1041641 1041647 1041642
	Pulley 3388	Type Pulley	Material no. 1041765
	Wire clamp	Type Wire clamp 3 mm Wire clamp 3 mm stainless steel	Material no. 1033247 1033299
	Duplex wire clamp 3410	Type Duplex wire clamp	Material no. 1033248
	Egg-shaped wire clamp 3412	Type Egg-shaped wire clamp	Material no. 1181896

Errors and omissions excepted.



Emergency pull-wire switch ZS 80

Accessories



Wire thimble

Type
Wire thimble 3 mm
Wire thimble 3 mm stainless steel

Material no.
1033245
1172707



Eye bolt

Type
Eye bolt M8 x 70 with nut
Eye bolt BM8 x 70 with nut, stainless steel
Eye bolt BM10 x 40 with nut

Material no.
1170601
1189687
1032610



Eye bolt open

Type
Eye bolt open M10 x 70 with 2 nuts

Material no.
1279170