Emergency Pull-Wire Switch Extreme – ZS 92 S / KST

SWITCH CONTROL UNDER EXTREME CONDITIONS

The new robust switchgear series ZS 92 S / KST has been especially developed for extreme conditions, suitable for application in open-cast mining, gravel plants, quarries and sand pits, recycling plants, waste industry, coal-fired power stations, heavy industrial plant manufacture.

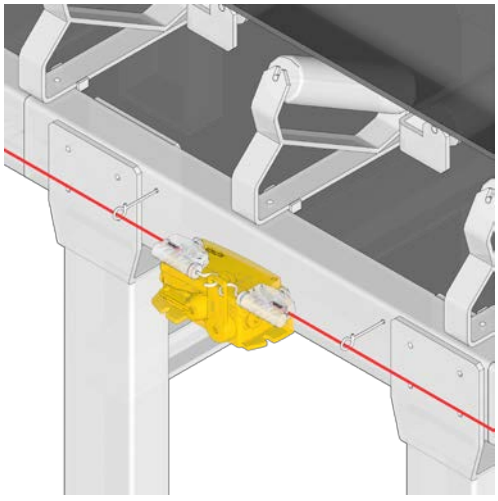
Emergency pull-wire switches ZS 92 S / KST

These emergency pull-wire switches guarantee, amongst other things, a reliable emergency-stop function and wire-break monitoring on larger machines.

New mechanics facilitate a wire length of up to 2 x 100 m and achieve significantly reduced release forces and paths when actuating the emergency stop function. This makes the safety switch easier to operate and reliably meets all the relevant international standards.

ZS 92 S / KST comes in nine different settings for lever release and unlocking. Other options include an LED indicator lamp and connection of the switch to the intrinsically safe "Dupline Safe" protocol via an integrated plug-in safety bus module.

Emergency pull-wire switches can be adapted to individual applications with the aid of numerous accessories – also available in stainless steel.



- **Temperature resistant from -40 °C ... +85 °C (KST: +70 °C)**
- **Robust aluminium die-cast corrosion-resistant or shockproof thermoset enclosure.**
- **Wire length up to 2 x 100 m.**

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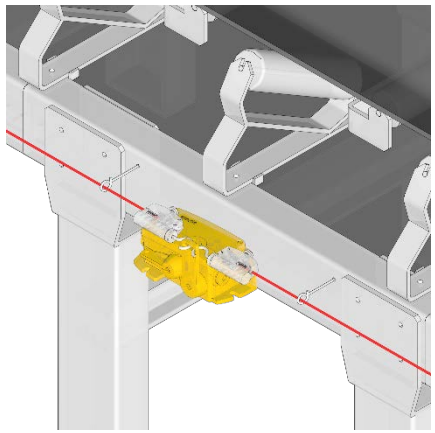
Applications

Compensation Spring
ZS 90/91/92 S
- With travel limitation.
- Adaption of length expansions caused by changes in temperature.
- Version consisting of: stainless steel chain, 2 galvanised carabiners and tension spring.

Pull-wire Ø 5mm
- Zinc plated steel core or stainless-steel core Ø 3 mm with red PVC sheath.
- Total diameter 5 mm.
- Ordering unit: per metre.

Eye bolt open M10x120 with 2 nuts
120 mm length, 70 mm thread length
- M10 thread.
- Galvanised steel.
- 2 hexagon nuts are provided.

Cable Tensioner System TS 65
- Time-saving.
- Easy to adjust.
- No tool required.



Emergency Stop Function
- Emergency pull-wire switches guarantee a reliable emergency stop function including wire break monitoring on conveyor systems.
- Two-side actuation up to 200 m.

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Emergency Pull-Wire Switch Extreme ZS 92 S

Key Features:

- Temperature resistant from -40 °C ... +85 °C.
- High degree of protection IP 66 / IP 67 / IP 69.
- Wire length up to 2 x 100 m.
- Corrosion-resistant aluminium die-cast enclosure.
- Back and base mounting possible.
- Screws made of stainless steel.
- Release by lever, reset lever at the front side or back side possible.
- Wire pull and breakage detection.

Lamp indicator model

Technical Data:

Applied Standards	EN 60947-5-1, EN 60947-5-5, EN ISO 13850, EN ISO 13849-1, EN 620:2011-5.7.2.9, AS 1755-2000-2.7.9.1, AS/NZS 4024.3610:2015-2.10.6.2
Enclosure	Aluminium die-cast, corrosion-resistant, powder-coated, passivated, shock-proof, anthracite grey. Cover: Signal yellow similar to RAL 1003. Actuating Lever: Signal red, similar to RAL 3001. Reset Lever: Sky blue, similar to RAL 5015.
Connection	Screw connection terminals; with Si-Bus: screw connection terminals, basic strip to connect Dupline Safe input module with connector
Cable cross-section	0.5 ... 2.5 mm^2 (incl. conductor ferrules)
Cable entry	2 x M25 x 1.5
Degree of protection	IP 66/67/69 to IEC/EN 60529
Switching system	Snap action, positive break NC contact
Switching elements	2 NC/2 NO or 3 NC/1 NO contact, type Zb; Si-Bus: 2 NC contacts, type Zb
B_{10d} (10 % load)	100000
T_M	Max. 20 years
I_e / U_e	6 A/400 VAC; with Si-Bus: 6 A/250 VAC
Utilisation category	AC-15
Short-circuit protection	6 A gG/gN fuse
Ambient temperature	-40 °C ... +85 °C Si-Bus: with Si-Bus –40°C ... +70°C; without Si-Bus –40°C ... +85°C
Mechanical life	> 50000 operations
Actuating force	Actuating lever approx. 30 N; reset lever approx. 40 N
Approvals	

Emergency Pull-Wire Switch Extreme – ZS 92 S / KST

Emergency pull-wire switch Extreme ZS 92 S KST

Key Features:

- Temperature resistant from -40 °C ... +70 °C.
- High degree of protection IP 66 / IP 67.
- Wire length up to 2 x 100 m.
- Thermoset enclosure for application with aggressive bulk goods and environmental conditions.
- Back and base mounting possible.

Lamp indicator model

Technical Data:

Applied Standards	EN 60947-5-1, EN 60947-5-5, EN ISO 13850, EN ISO 13849-1, EN 620:2011-5.7.2.9, AS 1755-2000-2.7.9.1, AS/NZS 4024.3610:2015-2.10.6.2
Enclosure	Thermoset, grey, similar to RAL 7035. Cover: Signal yellow similar to RAL 1003. Actuating Lever: Signal red, similar to RAL 3001. Reset Lever: Sky blue, similar to RAL 5015.
Connection	Screw connection terminals; with Si-Bus: screw connection terminals, basic strip to connect Dupline Safe input module with connector
Cable cross-section	0.34 ... 2.5 mm^2 (incl. conductor ferrules)
Cable entry	2 x M25 x 1.5
Degree of protection	IP 66/67 to IEC/EN 60529
Switching system	Snap action, positive break NC contacts
Switching elements	2 NC/2 NO or 3 NC/1 NO contact, type Zb; Si-Bus: 2 NC contacts, type Zb
B_{10d} (10 % load)	100000
T_M	Max. 20 years
I_e / U_e	AC-15: 24 V-10 A/120 V-6 A/400 V-4 A DC-13: 24 V-6A/125 V-0.55 A/250 V-0.4 A Minimum electrical load: 5 V/10 mA Si-Bus: 6 A/250 VAC
Utilisation category	AC-15; DC-13
Short-circuit protection	10 A gG/gL fuse
Ambient temperature	-40 °C ... +70 °C
Mechanical life	> 50000 operations
Actuating force	Actuating lever approx. 30 N; reset lever approx. 40 N
Approvals	c SA us