



MOD. PRS

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Belt Conveyor Pull Rope Switch



APPLICATION

Kiepe pull-rope emergency stop switches type PRS are used in accordance with the requirements of EN 620 as well as BGI 710 and in conformity with DIN EN ISO 13850 as emergency stop devices as supplementary safety measures on conveyor belt the red release lever.

The exclusive use of glass fiber reinforced plastic and stainless recycling and composting facilities.

With the pull-rope system functionally aligned, the emergency stop signal can be triggered over a distance of up to about 100 m for each switch.

Kiepe pull-rope emergency stop switch types PRS comply with Machinery Directive 2006/42/EC.

They must only be used in control electrical circuits.

The PRS glas fiber reinforeced plastic housing offers space for 2 systems. The pull rope is symmetrically tensioned on both sides offic and 1 changeover contact. The versions PRS 101/102 use also a NO contact for a signal lamp.

Taking into consideration the safety data and maintenance steel is designed especially for applications in harsh environments commendations, the pull-rope emergency stop switch type PRS such as potassium salt and rock salt factories, seaports and ureacan be used in safety circuits in accordance with DIN EN ISO 13849 up to Performance Level c (PLc).

FUNCTION

The pull-rope emergency stop switch is actuated by a pull rupe connected on both sides of the red release lever.

The switching of the pull rope switch is controlled by a cam and supported by a spring function (snap action). The self-cleaning contacts are actuated simultaneously and it may be carried out a are reactivated, the signal lamp is off and the conveyor belt is cross comparison of the contacts of an external control unit.

The emergency stop signal is performed with positive-making normally closed (NC) contacts in accordance with the closed circus priveyor system to start up. principle.

After the emergency stop function is triggered, the switching mechanism is locked in the shut-off position "0". The signal lamp in the lid of PRS 101 or 102 is switched on. When the blue reset lever is actuated in switch position "1", the switching contacts prepared for being turned back on again.

Resetting the pull-rope emergency stop switch must not cause the

TECHNICAL DATA

| Designation | Pull-rope emergency stop switch type PRS – emergency stop device with latching function | | | |
|---|---|--|--|--|
| Type of actuation | Bidirectional; spring-loaded ("snap action") | | | |
| Complies with | DIN EN ISO 13850; DIN EN 60947-5-5; DIN EN 60947-5-1; | | | |
| Suited for | Control units and systems in accordance with DIN EN 60204 | | | |
| Mechanics | | | | |
| Material | Enclosure: PBT GF20; yellow (similar RAL 1004) release lever: red (similar RAL 3000) reset lever: blue (similar RAL 5010) | | | |
| Mounting | 2 reinforced holes for M6 screws | | | |
| Installation position | horizontal, tilt angle up to about 15° | | | |
| Pull-rope length | Up to approx 100 m | | | |
| Actuation force | 30 N ± 10 N | | | |
| Weight | 0,5 kg | | | |
| Elektrik | | | | |
| Switching system | PRS 001 2 cam operated positive opening Switches, 1 changeover contact (SPDT) PRS 101/102additionally 1 N.O. for lamp | | | |
| Cable entry | Threaded holes 3x M25 x 1.5 with each dummy screws, 1x cable gland enclosed (sealing ar€a9 mm to⊘ 17 mm) | | | |
| Utilization category | AC-15: 230 V / 1.5 A DC-13: 60 V / 0.5 A DC-13: 24 V / 2 A | | | |
| Connection cross section | 1 mm² to 2.5 mm² | | | |
| Protective conductor connection | no connector; Protection class I | | | |
| Rated insulation voltage ¡U | 250 V | | | |
| Rated impulse withstand voltage in land | 2.5 kV, degree of pollution III | | | |
| Conventional thermal currental | 6 A | | | |
| Contact reliability | > 1,000,000 switching operations | | | |
| Signal lamp | 4x LED in the lid | | | |
| Voltage Ų for signal lamp | PRS 101: 230 V AC PRS 102: 24 V DC | | | |
| Current consumption of lamp | approx. 20 mA | | | |
| Ambient conditions in accorda | nnce with DiN EN 60947-5-5 | | | |
| Permissible ambient temperature | - 25 °C + 70 °C | | | |
| Protection rating | IP 67 in accordance with EN 60529 | | | |
| | | | | |

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Safety data in accordance with DIN EN ISO 13849 and EN 61062 Safety functions Emergency stop incl. latching Manual reset Usable in safety circuits up to PLc (depending on customer application) B10d value 10,000 actuations

| SELECTION TABLE | | | | | | |
|-----------------|-----------------------|------|---------|---------------------------|----------------|--|
| Switch type | Contact configuration | | ıration | Integrated signal lamp | Order number | |
| | N.C. | SPDT | N.O. | Signal lamp | | |
| PRS 001 | 2 | 1 | - | - | 91.063 293.001 | |
| PRS 101 | 2 | 1 | (1) | LED 230 V AC | 91.063 293.101 | |
| PRS 102 | 2 | 1 | (1) | LED 24 V DC | 91.063 293.102 | |

| Spare parts and accessories | |
|---|-----------------|
| Screwed cable gland M25 | 113.51.00.20.10 |
| Dummy screw M25 | 113.43.87.20.01 |
| Replacement lid PRS 001 | 94.059 408.001 |
| Replacement lid PRS 101 with LED-Block 230 V AC | 93.059 431.001 |
| Replacement lid PRS 102 with LED-Block 24 V DC | 93.059 431.002 |

MOUNTING

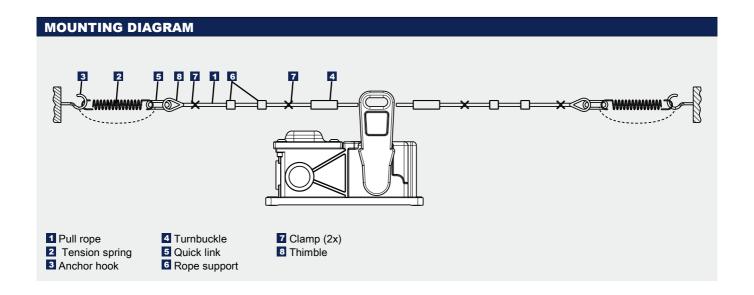
Pull-rope emergency stop switches of types PRS are centered between the anchor hool of the pull-rope system and each fastened to the substructure in installation position with 2x M6 screws.

Electrical connection is performed with the device open using the screwed cable gland included in the delivery, directly on the terminal block [X10] to [X22] (see the connection drawings).

The signal lamp of DC-Variant PRS 102 can be connected without regarding the polarity of the voltage.

The pull-rop is tensioned by tension sprin between the anchor hook and fastened onto the red release lever.

After the tension spring have been adjusted, the actuation force and path for triggering the switch must be tested to ensure compliance with specified requirements.



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