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2CPSA1B2B



Actual product appearance may vary.

2CPS Series, Cable Pull Safety Switch, Cable, Maintained Left Side, No Actuation Right Side, 3NC/1NO Direct Opening (Switch 1, Left: 1NC/1NO; Switch 2, Right: 2NC), 1/2 NPT, Gold-plated Contacts, 120 Vac Multi -cluster LED

Features

- Positive opening operation of normally closed contacts
- Choice of 2NC/2NO or 3NC/1NO contact configurations
- Maximum cable length in a single direction is 76 m (250 ft) for a combined length of 152 m (500 ft) in dual directions
- Choice of three actuator configurations
- Removable contact block version available
- Large wiring cavity with straight - through wiring
- 24 Vdc or 120 Vac bright, multi-cluster LED status indicator light available
- Gold-plated contacts are standard
- Die-cast zinc housing
- Optional hardware packs available

Potential Applications

- Long conveyor systems found in warehouses and distribution centers
- Conveyor systems having a high amount of vibration
- Conveyor systems that experience wide temperature swings
- Long conveyor systems where easy through wiring, or highly visible trip status is required
- Perimeter guarding where hosedown conditions are present

Description

The 2CPS Cable Pull Safety Switch provides readily accessible emergency stop over a long, linear distance. It is a costeffective means of providing this emergency stop signal compared to multiple emergency stop push buttons. (Cable Pull Safety Switches are not, however, to be used as a means of personnel safeguarding. They may be used to prevent further injury or damage to equipment when used for emergency stop signaling.)

The 2CPS Series Cable Pull Safety Switch is designed to provide emergency stop protection for exposed conveyor lines. The internal mechanism latches on both slackened cable (push) and pulled cable. This capability enhances productivity by eliminating nuisance stops due to variations in temperature, stretch of cable over time, and other application variables.

A line in the midpoint of the cable tension window indicates proper cable tension, providing easy and intuitive set-up. The direct acting switch contacts are held closed when the actuating cable is under proper tension and the reset knob is set to RUN. When the actuating cable is pulled, slackened or broken, a cam positively opens the NC (Normally Closed) switch contacts. The snap action, trip operation causes the switch contacts to change state and mechanically latch almost simultaneously when the cable is pulled, slackened or broken. The NC switch contacts remain open until the 2CPS is reset by properly tensioning the cable and manually rotating the reset knob.

When the direct acting switch contacts open, the auxiliary contacts also actuate (open contacts close and closed contacts open). The auxiliary contacts are electrically isolated from the direct acting switch contacts. These NO (Normally Open) contacts may be used for monitoring or signaling.

The 2CPS complies with: Low Voltage Directive 73/23/EEC, as amended by directive 93/68/EEC; Machinery Directive 98/37/EEC only as the directives relate to the components being used in a safety function; IEC/EN60947-1; IEC/EN60947-5-1; IEC/EN60947-5-5.

Supporting Documentation

- [▶ Mounting Dimensions](#)  
[▶ Accessories](#)  
[▶ Engineering Drawing](#)
- [▶ Installation Instructions](#)  
[▶ Contact Block Options](#)
- [▶ Contact Configurations](#)  
[▶ Application Drawing](#)

| Product Specifications         |                                                                                                                                                                                    |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type                   | Cable Pull Safety Switch                                                                                                                                                           |
| Actuator                       | Cable, Maintained Left Side, No Actuation Right Side                                                                                                                               |
| Switch Type                    | 3NC/1NO Direct Opening (Switch 1, Left: 1NC/1NO; Switch 2, Right: 2NC)                                                                                                             |
| Contact Material               | Gold - plated                                                                                                                                                                      |
| Termination Type               | 1/2 NPT                                                                                                                                                                            |
| Ampere Rating                  | 10 uA to 50 mA Low Energy                                                                                                                                                          |
| Voltage                        | 250 Vac and 60 Vdc Maximum                                                                                                                                                         |
| Housing Material               | Zinc Die - Cast                                                                                                                                                                    |
| Series Name                    | 2CPS                                                                                                                                                                               |
| Shock                          | 15 G                                                                                                                                                                               |
| Vibration                      | 10 Hz - 500 Hz, 5 G                                                                                                                                                                |
| Sealing                        | IP67, NEMA/UL 1, 4, 12, 13                                                                                                                                                         |
| Approvals                      | UL, CSA, CE                                                                                                                                                                        |
| CSA File #                     | LR57329                                                                                                                                                                            |
| UL File #                      | E37138, E157416                                                                                                                                                                    |
| Agency Approvals and Standards | EN60947 -1, EN -60947 -5 -1, EN60947 -5 -5                                                                                                                                         |
| Mechanical Life                | 1 Million                                                                                                                                                                          |
| Operating Temperature Range    | -40 °C to 85 °C [ -40 °F to 185 °F]                                                                                                                                                |
| Availability                   | Global                                                                                                                                                                             |
| UNSPSC Code                    | 302119                                                                                                                                                                             |
| UNSPSC Commodity               | 302119 Switches and controls and relays                                                                                                                                            |
| Contact Block                  | Mounted to Housing                                                                                                                                                                 |
| Indicator                      | 120 Vac Red Multi - cluster LED                                                                                                                                                    |
| Note 1                         | Low Voltage Directive 73/23/EEC, as amended by directive 93/68/EEC. Machinery Directive 98/37/EEC only as the directives relate to the components being used in a safety function. |

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