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1CPSA1 Cable Pull  
(Home : Products)



Actual product appearance may vary.

1CPS Series, Cable Pull Safety Switch, Cable, Maintained, 1NC/1NO Direct Opening, 1/2 NPT, Silver Contacts

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Overview

Specs

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Application Notes

Description

The 1CPS Cable Pull Safety Sw itch is intended for use in applications w ith the cable runs up to 76 m [250 ft], such as conveyor runs w ithin defined system zones. It is a cost-effective means of providing this emergency stop signal compared to multiple emergency stop push buttons. (Cable Pull Safety Sw itches are not, how ever, to be used as a means of personnel safeguarding. They may be used to prevent further injury or damage to equipment w hen used for emergency stop signaling.)

The 1CPS Series Cable Pull Safety Sw itch 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 w indow indicates proper cable tension, providing easy and intuitive set-up. The direct acting sw itch contacts are held closed w hen 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) sw itch contacts. The snap action, trip operation causes the sw itch contacts to change state and mechanically latch almost simultaneously w hen the cable is pulled, slackened or broken. The NC sw itch contacts remain open until the 1CPS is reset by properly tensioning the cable and manually rotating the reset knob.

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

The 1CPS complies w ith: 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.

Features

Features

- Direct opening actions of normally closed contacts
- Choice of 1NC/1NO, 2NC/2NO or 3NC/1NO, 4NC contact configurations
- Typical cable span of 76 m [250 ft]] in an environment w ith a temperature change of 17 °C [ 30 °F] an endspring is used (longer spans are possible depending upon temperature change and installtion
- Large w iring cavity w ith straight-through w iring
- 24 Vdc or 120 Vac single red high intensity LED status indicator light available
- Gold-plated or silver contacts available
- Die-cast zinc housing
- Optional hardw are packs available

Potential Applications

Potential Applications

- Conveyor systems having a high amount of vibration
- Conveyor systems that experience w ide temperature sw ings
- Conveyor systems w here easy through w iring, or highly visible trip status is required
- Perimeter guarding w here hosesdown conditions are present