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2CPSA1B1A-F01



Actual product appearance may vary.

2CPS Series, Cable Pull Safety Switch, Cable, Maintained Both Sides, 3NC/1NO Direct Opening (Switch 1, Left: 1NC/1NO; Switch 2, Right: 2NC), 10 Pin Mini Change Connector, Gold -plated Contacts, 24 Vdc 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 cost-effective 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](#)
- [▶ Installation Instructions](#)
- [▶ Contact Configurations](#)
- [▶ Accessories](#)
- [▶ Contact Block Options](#)
- [▶ Application Drawing](#)
- [▶ Engineering Drawing](#)

Product Specifications	
Product Type	Cable Pull Safety Switch
Actuator	Cable, Maintained Both Sides
Switch Type	3NC/1NO Direct Opening (Switch 1, Left: 1NC/1NO; Switch 2, Right: 2NC)
Contact Material	Gold -plated
Termination Type	10 Pin Mini Change Connector
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 #	LR57327
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	24 Vdc 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. 10 pin connector wired per Ford specification.

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