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## 2CPSA1B1



Actual product appearance may vary.

**2CPS Series, Cable Pull Safety Switch, Cable, Maintained Both Sides, 3NC/1NO Direct Opening (Switch 2, Left: 1NC/1NO; Switch 2, Right: 2NC), 1/2 NPT, Gold-plated Contacts**

### 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	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 #	LR57326
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	None
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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