EMERGENCY STOP
PULL WIRE DEVICE

UV STABLE, IMPACT MODIFIED, FLAME RETARDANT, STATIC DISSIPATIVE PC/PBT ENCLOSURE.

» Yellow trip indication flag and plastic pull wire set up gauge supplied with all devices.

Device features 3 Independent positive drive mechanisms and IP 66/67 Rated S.P.D.T Changeover Safety Micro Switches with Direct Opening Action for high safety performance, enclosed in an IP 66/67 flame retardant high impact enclosure.

Tested to IP66/67

CE Conformity

The SAFE-T-PULL Ex Static Dissipative Pull Wire Device has been tested to the requirements of AS/NZS 4024 and MDG 3608 7.2.2.1
Tripping occurs under the following conditions:–

(a) One or both trip wires are removed or cut/broken
(b) One or both trip wires are over-tensioned
(c) One or both trip wires are activated
(d) Manual trip via reset knob.

The device cannot be reset unless both trip wires are attached and correctly tensioned. Manual reset via the external reset knob is required after a trip has occurred.
Tested to and complied with the Anti Static properties (Electrical Resistivity) requirements of MDG 3608.

FEATURES

- Safe-T-Pull SR is a simple apparatus (IEC/AS/NZS 60079.11.2011) and has a surface resistivity well below the 1 GΩ allowed in these standards. Used with an intrinsically safe circuit, this product can be used in Ex zones.
- Tamper Proof Switch Plate Mechanism.
- Every device is individually automation tested, electrically and mechanically with Test Certificates available.
- Absolute simplicity in initial setup and adjustment. All Set Point adjustments are done from the outside of the enclosure.
- UV stable, impact modified, flame retardant, static dissipative PC/PBT enclosure.
- Simple design ensures low maintenance.
- Stainless steel internal compression type springs.
- Electro polished 316 stainless steel pull rods and mounting feet.
- Pull rods have spring loaded external dust protecting boots so the pull rod is always covered for extra seal protection and pull rods are not exposed to contaminates.
- Double lip oil seals on pull rods and reset operator for secure dust and weather protection to IP 66/67.
- Non-metallic pull rod bushings so no electrolysis issues between the safety mechanism (pull rod) and bushing. Increasing functional safety.
- Independent positive drive pull rod cams, switch plate mechanism and lid drive cam for 3 fail safe trip mechanisms to ensure the device will trip and fail to safe.
- Internal switch connections are fully shrouded for added safety during inspection.
- IP 66/67 S.P.D.T Change-over Safety Micro Switches with Direct Opening Action (IEC 60947-5-1 Annex K) in contact element form C tested and passed too IEC 60947-5-1.
- Cam design compensates for pull wire expansion/contraction up to 30mm either side of the set point. Eliminates nuisance tripping due to vibration.
- Pull forces to actuate trip @ 60Nm (6Kg) 90° to pull wire axis and 90Nm (9Kg) along pull wire axis.
- Cam position signal sensing before tripping.

VARIATIONS

- Max 4 IP 66/67 S.P.D.T Change-over Safety Micro Switches with Direct Opening Action in contact element form C,
- External signal flag (Note: Comes with Device),
- External light,
- Single sided operation, right hand or left hand,
- Two x M20 stainless steel armoured cable gland sockets.

REMOTE END

Matched stainless steel compensation springs for remote end attachment. P/N STP-E60.
To comply with safety critical functions AS/NZS 4024.3610 -2015 section 2.10.5 Emergency Stop. Ans ISO 13850 Emergency Stop Function - Principles For Design. A matched compensation spring must be fitted to the remote end of the Pull Wire to allow tripping in both directions.

INSTALLATIONS

One centrally mounted device for every 200m of pull wire. Consult STP Safety, Installation, Design and Setting Instruction sheet for recommendations.

DEVICE SETTINGS

Device setting is via a turnbuckle from the outside of the device. No internal access needed to adjust to set point.

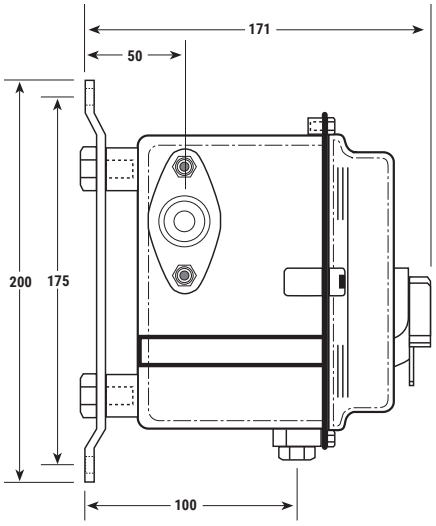
STANDARDS COMPLIANCE

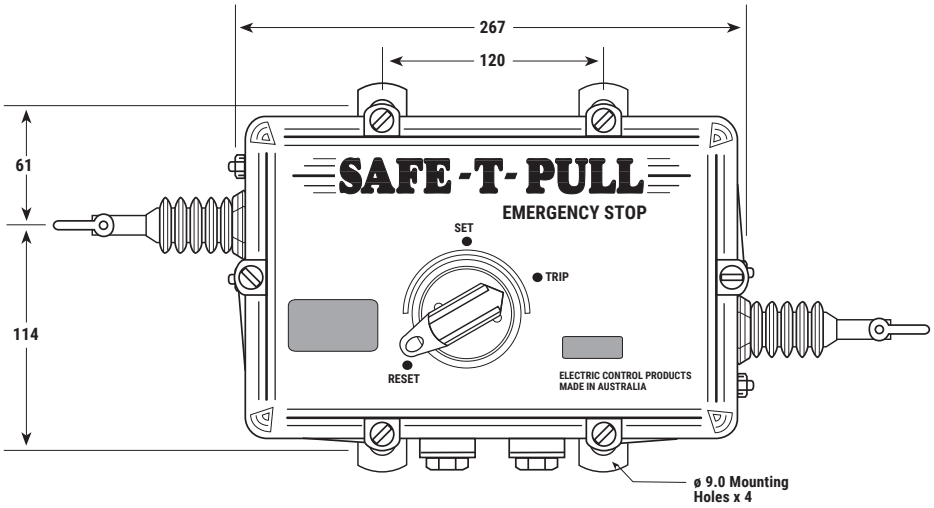
AS/NZS 4024 Series **AS/NZS IEC 60947.5.1:2015** **AS/NZS IEC 60947.5.5:2015**

IEC 60947.5.1:2016 RLV **IEC 60947-5-5:1997+AMD1:2005+AMD2:2016 CSV**

WHS (Mines) Regulations 2022 part 5.1 division 2, 191

DIMENSIONS

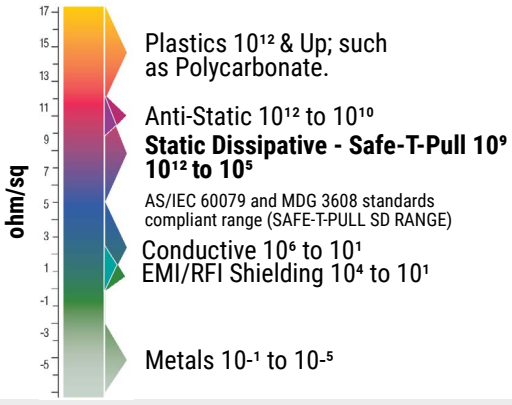




ENCLOSURE SPECIFICATIONS

- High Impact PC/PBT - Non Corrosive Material.
- UV Stabilised. (See RTP 2099 Spec Sheet)
- Flame retarded AS/NZ STM.UL94.V-0 (1.6mm)
- Resists splash and spillage of most hydrocarbon solvents, mild acids and strong alkali. (See RTP 2099 Spec Sheet)

SURFACE RESISTIVITY



TARGETING CONVEYOR SAFETY

ELECTRICAL SPECIFICATIONS

IP 67 Safety Micro Switch with Direct Opening Action Specifications

IEC 60947-5-1 Annex K classification	☐ Type 1 ☒ Type 2 Direct Opening	
Change-over contact element	☒ C ☐ Za ☐ Zb	
Contact material	Ag-Ni	
Utilization category	AC-15	DC-13
Operational voltage	230 V	60 V
Operational current	1,5 A	0.5 A
Frequency	50/60 Hz	---------
Number of electrical cycles	6050 (6 min-1)	
Number of mechanical cycles	6050 (6 min-1)	
Conventional free air thermal current	10 A	
Conventional enclosed thermal current	---------	
Operating Temperature	-35° C No Icing	+80° C

Specifications (short-circuit with standability)

Rated conditional short-circuit current	3 00 A	1 000 A
Short circuit protective device	Fuse 6 A gG (IEC 60269-2)	Fuse 6 A gR (IEC 60269-4)

ORDERING DETAILS

STANDARD DEVICE	PART NUMBER
Standard Device with 316 Stainless Steel mounting feet and 2 IP 67 rated S.P.D.T Safety Micro Switches with Direct Opening Action	STP-SD-2
Standard Device with 316 Stainless Steel mounting feet and 4 IP 67 rated S.P.D.T Safety Micro Switches with Direct Opening Action	STP-SD-4
ADD TO ABOVE CAT NO. FOR VARIATIONS:	
Left hand operation only	-LH
Right hand operation only	-RH
Two x M20 stainless steel armoured cable gland sockets	-ACGS
Matched SS Compensation Spring	STP-E60