

SAFE-T-PULL®

CE Conformity

Ex STATIC DISSIPATIVE



Switch features 3 Fail Safe Trip Modes. Designed for safety systems.

*Illustration only.
Photograph
shows optional
Signal Flag fitted.*

*Tested
to*
**MDG 3608
7.2.2.1**



Made in Western Australia

The **SAFE-T-PULL** Ex Static Dissipative Pull Wire Switch has been tested to the requirements of AS 1755 - 2000 and MDG 3608 7.2.2.1

Tripping occurs under the following conditions:-

- | | |
|--|--|
| (a) One or both trip wires are removed | (c) One or both trip wires are activated |
| (b) One or both trip wires are overtensioned | (d) Manual trip via reset knob. |

The switch 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 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.
- Fitment of any intrinsically safe 2 or 3 wire bus system compliant.
- Tamper Proof Switch Plate Mechanism.
- Absolute simplicity in initial setup and adjustment.
- Robust non-metallic enclosure.
- Simple design ensures low maintenance.
- Stainless steel internal compression type springs.
- Pull rods 316 stainless steel.
- Pull rods have spring loaded external dust protecting boots so the pull rod is always covered for extra seal protection.
- Double lip oil seals on pull rods and reset operator for secure dust and weather protection to IP 67.
- Non-metallic pull rod bushings.
- Positive drive action switching contacts provides mechanical forcing of the trip contacts.
- Complies to AS/NZS 3947.5.5: 2000 IEC 60947-5.5: 1997
- Three fail safe trip mechanism to ensure safety.
- Internal switch connections are fully shrouded for added safety during inspection.
- Switches have either silver or gold S.P.D.T forced open contacts.
- 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.

PULL WIRE SWITCH

SAFE-T-PULL

VARIATIONS

- Max 4no + 4nc contacts
- External signal flag
- External light
- Single sided operation, right hand or left hand
- 316 stainless steel mounting feet
- Silver or Gold forced open contacts

INSTALLATION

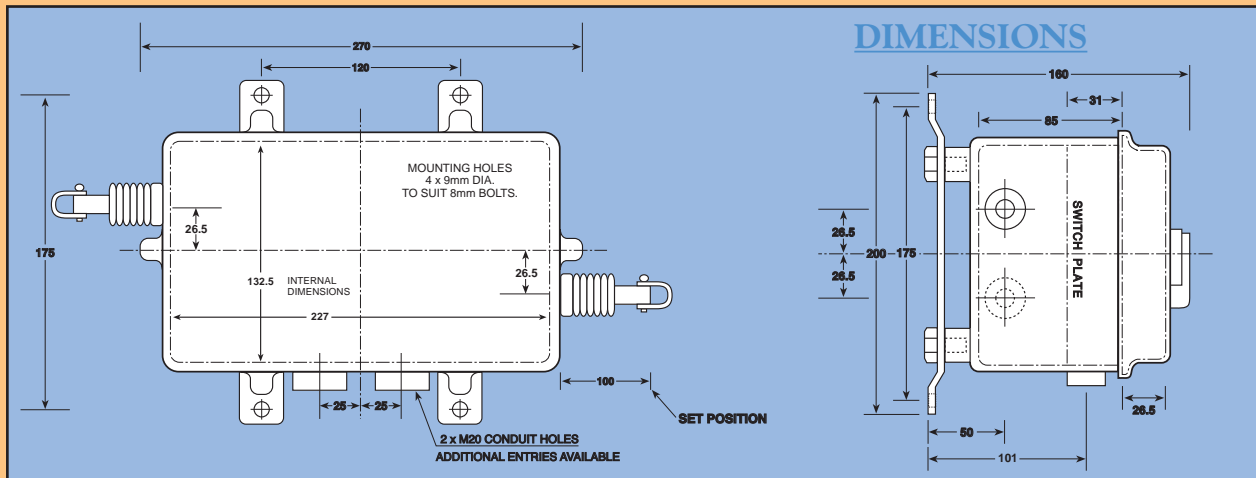
One centrally mounted switch for every 200m of pull wire. Consult AS 1755 - 2000 for mechanical installation.

REMOTE END

- Matched stainless steel compensation springs for remote end attachment. P/N STP-E60
- To comply with AS 1755 - 2000 Clause 2.7.9.1 (f). A matched compensation spring must be fitted to the remote end of the Pull Wire to allow tripping in both directions.

SWITCH SETTINGS

Adjust each pull wire until there is 100mm from the end of the pull rod to the switch housing.



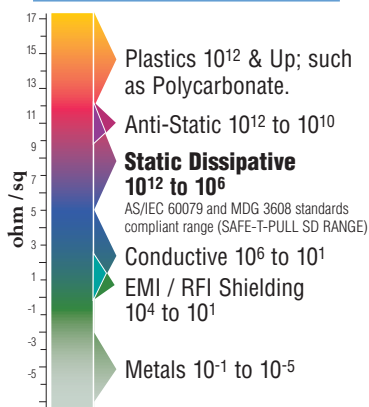
ORDERING DETAILS

- Standard Switch with 2 NO 2 NC silver S.P.D.T Fail Safe Contacts..... **STP-SD1-C-2**
- With 316 stainless steel mounting feet and 2 NO 2 NC Silver S.P.D.T Fail Safe Contacts..... **STP-SD1-B-2**
- Standard Switch with 2 NO 2 NC Gold S.P.D.T Fail Safe Contacts..... **STP-SD01-C-2**
- With 316 stainless steel mounting feet and 2 NO 2 NC Gold S.P.D.T Fail Safe Contacts..... **STP-SD01-B-2**
- Add or replace to above Cat No. for variations:
- 4 NO and 4 NC contacts **-4**
- External signal flag **-F**
- External red LED light **-S**
- Left hand operation only..... **-LH**
- Right hand operation only..... **-RH**
- Matched SS Compensation Spring..... **STP-E60**

ENCLOSURE SPECIFICATIONS

- High Impact PBT/PC Non Corrosive Material.
- UV Stabilised.
- Flame retarded ASTM. UL94.V-0 (1.6mm)
- Dissipative IE9 ohm Surface Resistance.
- Resists splash and spillage of most hydrocarbon solvents, mild acids and strong alkali.

SURFACE RESISTIVITY



CONTACT RATINGS

Switch Type	STP-SD01
Contact Type	Needle
Contact Material	Gold
Rating	125VAC / 30VDC 0.1 Amp
Minimum applicable load	5 VDC / 1mA
Operating frequency	Mechanically : 300 operations / min
Contact resistance	30 mΩ max
Dielectric strength	100VAC, 50/60 Hz for 1 minute between non-continuous terminals
Ambient operating temperature	-40 °C - +85°C
Service life	Mechanically: 10, 000, 000 Electrically: 5, 000, 000
Switch Type	STP-SD1
Switch Type	Needle
Contact Material	Silver
Rating	125VAC / 30VDC 1 Amp
Minimum applicable load	5 VDC / 30mA
Operating frequency	Mechanically : 300 operations / min
Contact resistance	30 mΩ max
Dielectric strength	100VAC, 50/60 Hz for 1 minute between non-continuous terminals
Ambient operating temperature	-40 °C - +85°C
Service life	Mechanically: 10, 000, 000 Electrically: 5, 000, 000

Manufactured in Australia by:

Unit 2, 172 Beringarra Avenue, Malaga WA 6090

Telephone: (08) 9249 1044
Facsimile: (08) 9249 2202

www.safe-t-pull.com

Electric Control
PRODUCTS

Sold by:

R&D Technology

R&D Technology Pty Ltd Specialised Engineering Products
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Brisbane P: +61 7 3846 2644 F: +61 7 3846 2346
Wollongong P: +61 2 4285 9978 F: +61 2 4285 9989
Gloucester P: +61 2 6558 2986 F: +61 2 4014 9099
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PULL WIRE SWITCH