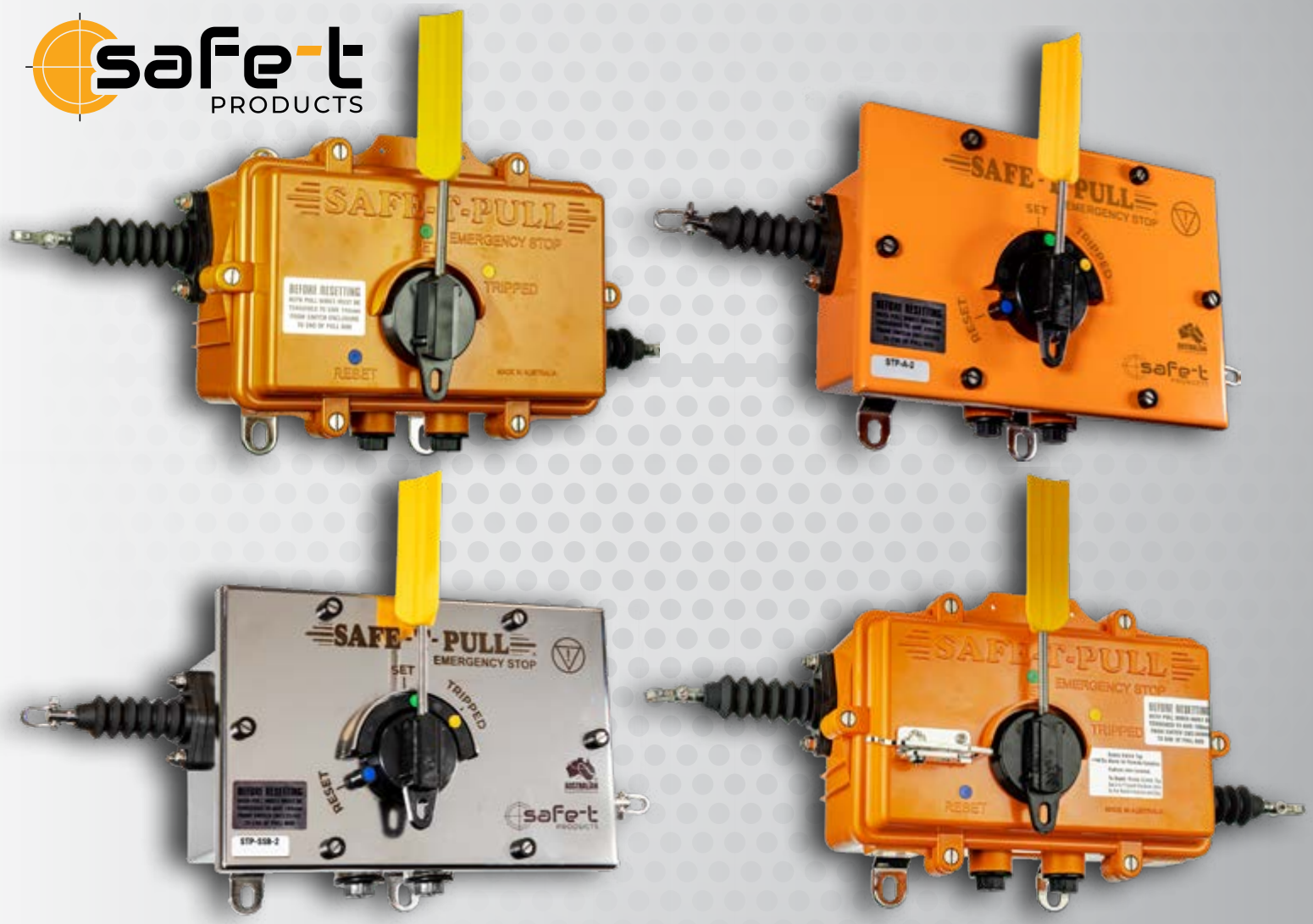
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SAFE-T-PULL®

safe-t PRODUCTS



GENERAL INDEX - ENCLOSURE TYPES

2 PC/PBT PLASTIC

5 ALUMINIUM

8 STAINLESS STEEL

11 PC/PBT PLASTIC REMOTE ISOLATION

14 STAINLESS STEEL WITH JUNCTION BOX EX Tb+d RATED

YouTube

FOR MORE INFORMATION

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AUSTRALIAN Designed & Manufactured

EMERGENCY STOP
PULL CORD DEVICE

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

Device features 3 Independent positive drive mechanisms and IP 66/69 Rated S.P.D.T Change-over Safety Micro Switches with Direct Opening Action for high safety performance, enclosed in an IP 66/67 flame retardant high impact enclosure.



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

Tested to IP66/69K

CE Conformity

The Safe-T-Pull Pull Cord Device has been tested to the requirements of IEC 60947-5-5 and AS/NZS 4024 Series. Tripping occurs under the following conditions:–

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

The device cannot be reset unless both trip cords are attached and correctly tensioned, Manual reset via the external reset knob is required after a trip has occurred.

FEATURES

- 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, 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 66/69.
- 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 cord expansion/contraction up to 20mm either side of the set point. Eliminates nuisance tripping due to vibration.
- Pull forces to actuate trip @ 60Nm (6Kg) 90° to pull cord axis and 90Nm (9Kg) along pull cord 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 light,
- Single sided operation, right hand or left hand,
- Two x M20 stainless steel armoured cable gland sockets.

REMOTE END

Matched 304 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. And ISO 13850 Emergency Stop Function - Principles For Design. A matched compensation spring must be fitted to the remote end of the Pull Cord to allow tripping in both directions.

INSTALLATIONS

One centrally mounted device for every 200m of pull cord. Consult the STP Installation, Design, Testing, Setting Instruction and Technical Documentation for recommendations.

DEVICE SETTINGS

Device setting is via a rope grip or 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**

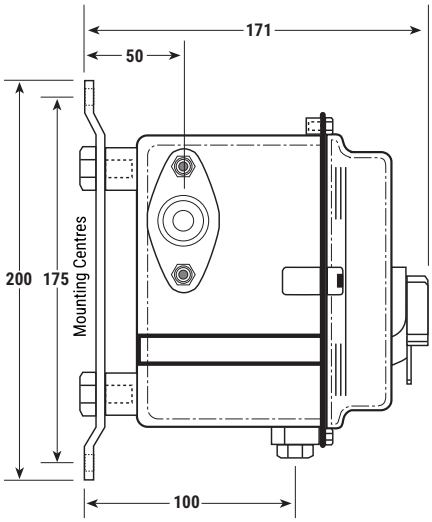
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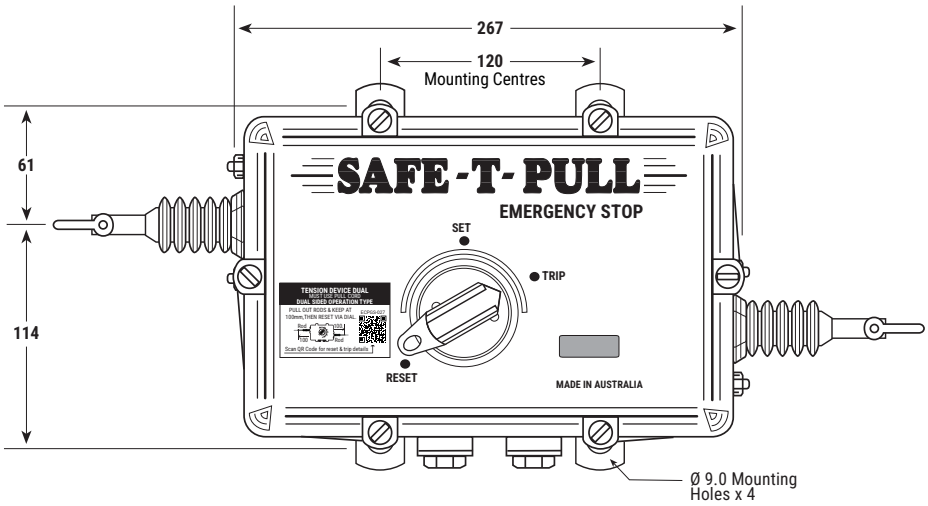
Australian WHS Regulations 2022 part 5.1 division 2, 187 CE

ENCLOSURE SPECIFICATIONS

- High Impact PC/PBT - Non Corrosive Material.
- UV Stabilised. (See RTP 2099 Spec Sheet)
- Flame retarded AS/NZS TM.UL94.V-0 (1.5mm)
- Resists splash and spillage of most hydrocarbon solvents, mild acids and strong alkali. (See RTP 2099 Spec Sheet)

DIMENSIONS





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	250 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 66/67 rated S.P.D.T Safety Micro Switches with Direct Opening Action	STP-P-2
Standard Device with 316 Stainless Steel mounting feet and 4 IP 66/67 rated S.P.D.T Safety Micro Switches with Direct Opening Action	STP-P-4
ADD TO ABOVE CAT NO. FOR VARIATIONS:	
External strobe light	**-S#**
S2 = Red Strobe for 10 – 100V DC 20 – 72V AC Current Use 130-37mA @ Flash Rate = 75fpm	-S2
S3 = Red Strobe for 90 -125V AC Current Use 30mA @ Flash Rate = 60fpm	-S3
S4 = Red Strobe for 207 – 253V AC Current Use 15mA @ Flash Rate = 60fpm	-S4
S6 = Amber Strobe for 10 – 100V DC 20 – 72V AC Current Use 130-37mA @ Flash Rate = 75fpm	-S6
S7 = Amber Strobe for 90 -125V AC Current Use 30mA @ Flash Rate = 60fpm	-S7
S8 = Amber Strobe for 207 – 253V AC Current Use 15mA @ Flash Rate = 60fpm	-S8
Left hand operation only	-LH
Right hand operation only	-RH
Two x M20 stainless steel armoured cable gland sockets	-ACGS

For Correct Ordering Please Refer to the Safe-T-Pull Installation Instructions via the QR Code →

EMERGENCY STOP
PULL CORD DEVICE

3MM 5052 ALUMINIUM WITH 6061 ALUMINIUM CABLE GLAND ENTRIES AND POWDER COATED ENCLOSURE.

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 3mm 5052 aluminium with 6061 aluminium cable gland entries and powder coated with halogen free, low smoke, orange polyester coating.



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

Tested to IP66/69K

CE Conformity

The Safe-T-Pull Pull Cord Device has been tested to the requirements of IEC 60947-5-5 and AS/NZS 4024 Series. Tripping occurs under the following conditions:–

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

The device cannot be reset unless both trip cords are attached and correctly tensioned, Manual reset via the external reset knob is required after a trip has occurred.

FEATURES

- 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.
- 3mm 5052 aluminium with 6061 aluminium cable gland entries and powder coated with halogen free, low smoke, orange polyester coating.
- 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 cord expansion/contraction up to 20mm either side of the set point. Eliminates nuisance tripping due to vibration.
- Pull forces to actuate trip @ 60Nm (6Kg) 90° to pull cord axis and 90Nm (9Kg) along pull cord axis.
- Cam position signal sensing before tripping.
- Device fitted with a Remote Isolation Padlock Out facility. Remote Isolation contacts are Positive Break Type and are fitted to inside of lid. The lid is locked on when the device is in Remote Isolation, so tampering is reduced.

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 Cord to allow tripping in both directions.

INSTALLATIONS

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

DEVICE SETTINGS

Device setting is via a rope grip or 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

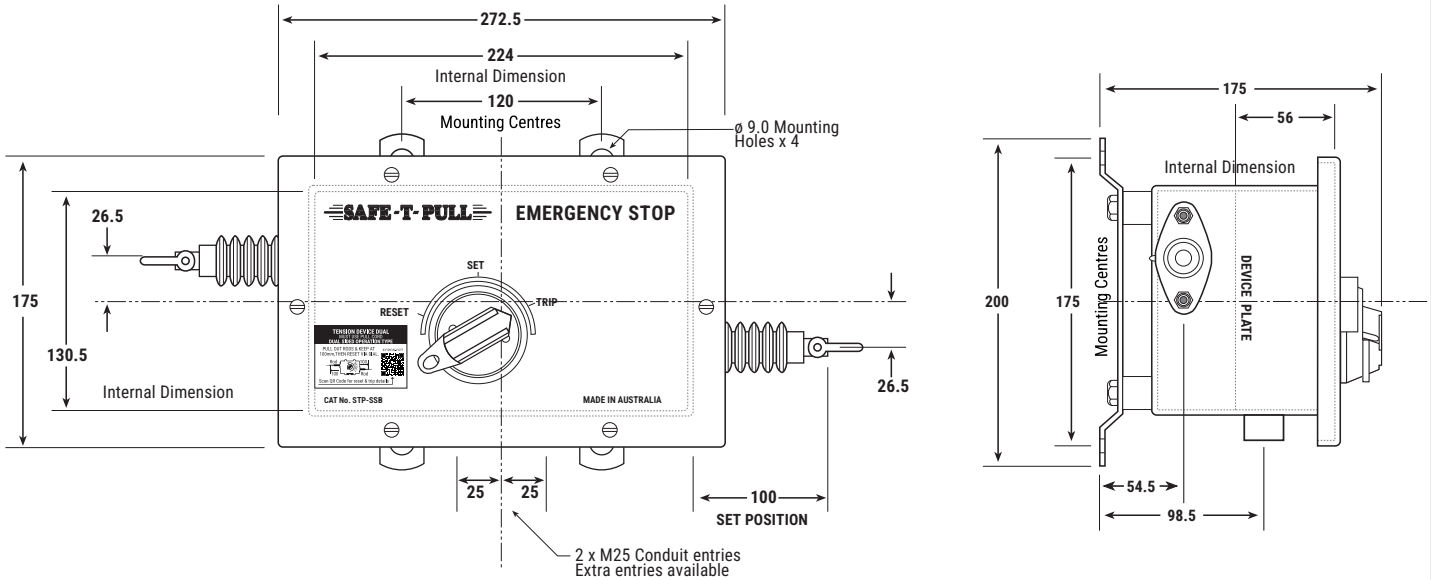
IEC 60947-5-5:1997+AMD1:2005+AMD2:2016 CSV

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

ENCLOSURE SPECIFICATIONS

- 3mm 5052 aluminium with 6061 aluminium cable gland entries and powder coated with halogen free, low smoke, orange polyester coating.

DIMENSIONS



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	250 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-A-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-A-4
ADD TO ABOVE CAT NO. FOR VARIATIONS:	
External strobe light	**-S#**
S2 = Red Strobe for 10 – 100V DC 20 – 72V AC Current Use 130-37mA @ Flash Rate = 75fpm	-S2
S3 = Red Strobe for 90 -125V AC Current Use 30mA @ Flash Rate = 60fpm	-S3
S4 = Red Strobe for 207 – 253V AC Current Use 15mA @ Flash Rate = 60fpm	-S4
S6 = Amber Strobe for 10 – 100V DC 20 – 72V AC Current Use 130-37mA @ Flash Rate = 75fpm	-S6
S7 = Amber Strobe for 90 -125V AC Current Use 30mA @ Flash Rate = 60fpm	-S7
S8 = Amber Strobe for 207 – 253V AC Current Use 15mA @ Flash Rate = 60fpm	-S8
Left hand operation only	-LH
Right hand operation only	-RH

For Correct Ordering Please Refer to the Safe-T-Pull Installation Instructions via the QR Code →

EMERGENCY STOP
PULL CORD DEVICE

2MM 316 ELECTRO POLISHED STAINLESS STEEL

Device features 3 Independent positive drive mechanisms and IP 66/67 Rated S.P.D.T Change-over Safety Micro Switches with Direct Opening Action for high safety performance, enclosed in an IP 66/67 high impact 2mm 316 electro polished stainless steel enclosure.



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

Tested to IP66/69K

CE Conformity

The Safe-T-Pull Pull Cord Device has been tested to the requirements of IEC 60947-5-5 and AS/NZS 4024 Series. Tripping occurs under the following conditions:–

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

The device cannot be reset unless both trip cords are attached and correctly tensioned, Manual reset via the external reset knob is required after a trip has occurred.

FEATURES

- 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.
- 2mm 316 Electro Polished Stainless Steel enclosure.
- Simple design ensures low maintenance.
- Stainless steel internal compression type springs.
- Electro polished 316 stainless steel pull rods and stainless steel 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 cord expansion/contraction up to 20mm either side of the set point. Eliminates nuisance tripping due to vibration.
- Pull forces to actuate trip @ 60Nm (6Kg) 90° to pull cord axis and 90Nm (9Kg) along pull cord 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,

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. A matched compensation spring must be fitted to the remote end of the Pull Cord to allow tripping in both directions.

INSTALLATIONS

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

DEVICE SETTINGS

Device setting is via a rope grip or 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**

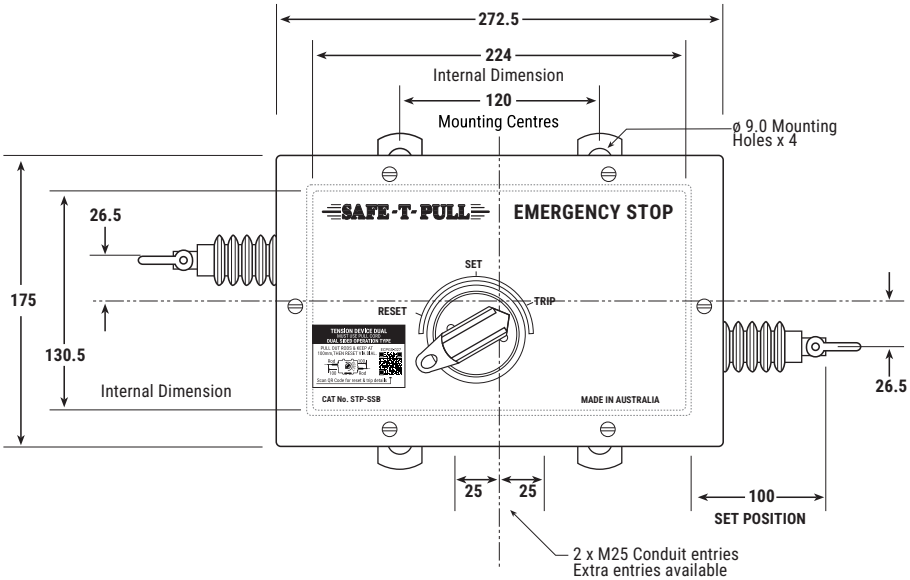
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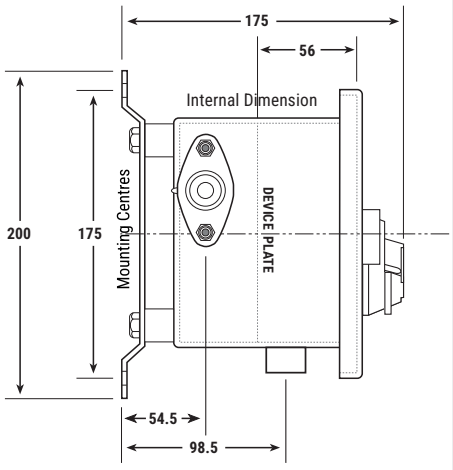
WHS (Mines) Regulations 2022 part 5.1 division 2, 191

ENCLOSURE SPECIFICATIONS

- 2mm 316 Electro Polished Stainless Steel.

DIMENSIONS





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	250 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 2 NO 2 NC IP 66/67 rated S.P.D.T Fail Safe Direct Opening Contacts	STP-SSB-2
Standard Device with 4 NO 4 NC IP 66/67 rated S.P.D.T Fail Safe Direct Opening Contacts	STP-SSB-4
ADD TO ABOVE CAT NO. FOR VARIATIONS:	
External strobe light	**-S#**
S2 = Red Strobe for 10 – 100V DC 20 – 72V AC Current Use 130-37mA @ Flash Rate = 75fpm	-S2
S3 = Red Strobe for 90 -125V AC Current Use 30mA @ Flash Rate = 60fpm	-S3
S4 = Red Strobe for 207 – 253V AC Current Use 15mA @ Flash Rate = 60fpm	-S4
S6 = Amber Strobe for 10 – 100V DC 20 – 72V AC Current Use 130-37mA @ Flash Rate = 75fpm	-S6
S7 = Amber Strobe for 90 -125V AC Current Use 30mA @ Flash Rate = 60fpm	-S7
S8 = Amber Strobe for 207 – 253V AC Current Use 15mA @ Flash Rate = 60fpm	-S8
Left hand operation only	-LH
Right hand operation only	-RH

For Correct Ordering Please Refer to the Safe-T-Pull Installation Instructions via the QR Code →

EMERGENCY STOP
PULL CORD DEVICE

REMOTE ISOLATION

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

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.



- Yellow trip indication flag and plastic pull cord set up gauge supplied with all devices.

Tested to IP66/69K

CE Conformity

The Safe-T-Pull Pull Cord Device has been tested to the requirements of IEC 60947-5-5 and AS/NZS 4024 Series. Tripping occurs under the following conditions:–

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

The device cannot be reset unless both trip cords are attached and correctly tensioned, Manual reset via the external reset knob is required after a trip has occurred.

FEATURES

- 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, 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 cord expansion/contraction up to 20mm either side of the set point. Eliminates nuisance tripping due to vibration.
- Pull forces to actuate trip @ 60Nm (6Kg) 90° to pull cord axis and 90Nm (9Kg) along pull cord axis.
- Cam position signal sensing before tripping.
- Device fitted with a Remote Isolation Padlock Out facility. Remote Isolation contacts are Positive Break Type and are fitted to inside of lid. The lid is locked on when the device is in Remote Isolation, so tampering is reduced.

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 Cord to allow tripping in both directions.

INSTALLATIONS

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

DEVICE SETTINGS

Device setting is via a rope grip or 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**

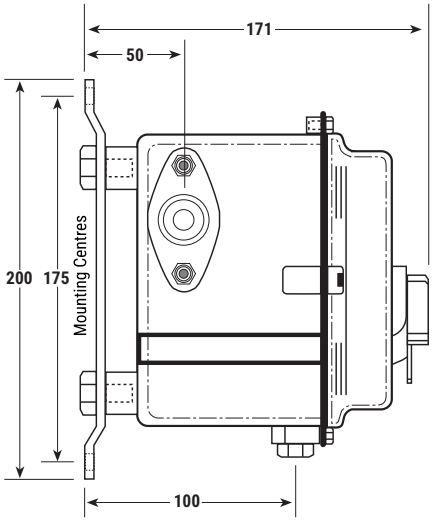
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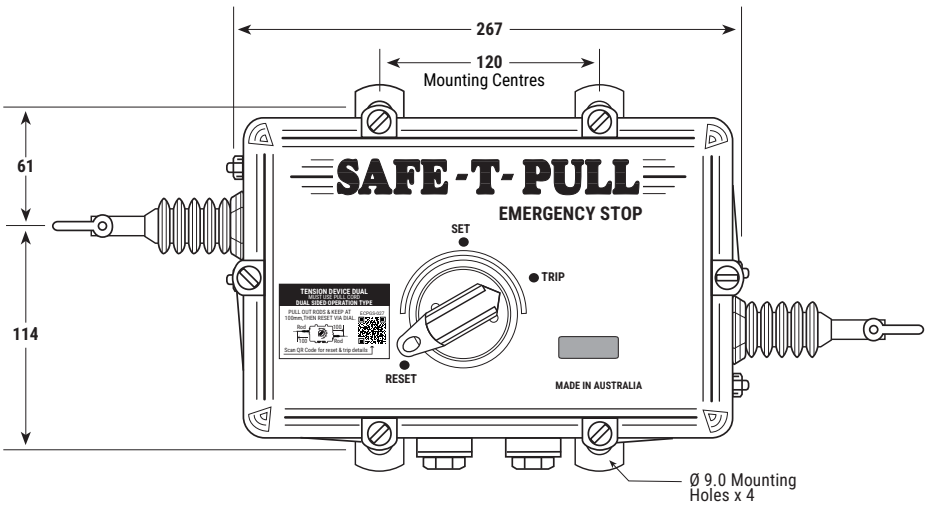
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ENCLOSURE SPECIFICATIONS

- High Impact PC/PBT Non Corrosive Material.
- UV Stabilised. (See RTP 2099 Spec Sheet)
- Flame retarded AS/NZSTM.UL94.V-0 (1.5mm)
- Resists splash and spillage of most hydrocarbon solvents, mild acids and strong alkali. (See RTP 2099 Spec Sheet)

DIMENSIONS





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	250 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 Remote Isolation Device with 316 Stainless Steel mounting feet and 2 IP 66/67 rated S.P.D.T Safety Micro Switches with Direct Opening Action	STP-P-2-RI
Standard Remote Isolation Device with 316 Stainless Steel mounting feet and 4 IP 66/67 rated S.P.D.T Safety Micro Switches with Direct Opening Action	STP-P-4-RI
ADD TO ABOVE CAT NO. FOR VARIATIONS:	
External strobe light	**-S #**
S2 = Red Strobe for 10 – 100V DC 20 – 72V AC Current Use 130-37mA @ Flash Rate = 75fpm	-S2
S3 = Red Strobe for 90 -125V AC Current Use 30mA @ Flash Rate = 60fpm	-S3
S4 = Red Strobe for 207 – 253V AC Current Use 15mA @ Flash Rate = 60fpm	-S4
S6 = Amber Strobe for 10 – 100V DC 20 – 72V AC Current Use 130-37mA @ Flash Rate = 75fpm	-S6
S7 = Amber Strobe for 90 -125V AC Current Use 30mA @ Flash Rate = 60fpm	-S7
S8 = Amber Strobe for 207 – 253V AC Current Use 15mA @ Flash Rate = 60fpm	-S8
Left hand operation only	-LH
Right hand operation only	-RH
Two x M20 stainless steel armoured cable gland sockets	-ACGS

For Correct Ordering Please Refer to the Safe-T-Pull Installation Instructions via the QR Code →

EMERGENCY STOP
PULL CORD DEVICE

2MM 316 ELECTRO POLISHED STAINLESS STEEL EX TB RATED SWITCHES AND JUNCTION BOX

Device features 3 Independent positive drive mechanisms and with Direct Opening Action Zb D.P.D.T Ex switches for high safety performance, enclosed in an IP 66/67 high impact 2mm 316 electro polished stainless steel enclosure.



- Yellow trip indication flag and plastic pull cord set up gauge supplied with all devices.



Tested to IP66/69K

CE Conformity

The Safe-T-Pull Pull Cord Device has been tested to the requirements of IEC 60947-5-5, AS/NZS 4024 Series and complies to AS/NZS 60079.0
Tripping occurs under the following conditions:–

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

The device cannot be reset unless both trip cords are attached and correctly tensioned, Manual reset via the external reset knob is required after a trip has occurred.

FEATURES

- 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.
- 2mm 316 Electro Polished Stainless Steel enclosure.
- Simple design ensures low maintenance.
- Stainless steel internal compression type springs.
- Electro polished 316 stainless steel pull rods and stainless steel 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.
- Cam design compensates for pull cord expansion/contraction up to 20mm either side of the set point. Eliminates nuisance tripping due to vibration.
- Pull forces to actuate trip @ 60Nm (6Kg) 90° to pull cord axis and 90Nm (9Kg) along pull cord axis.
- Cam position signal sensing before tripping.

NOTE: Fitted with Zb D.P.D.T Ex d, Ex tD Limit Switches, which needs mechanical protection for compliance.

VARIATIONS

- External signal flag (Note: Comes with Device),
- Single sided operation, right hand or left hand.

NOTE: Max 2 Ex Zb D.P.D.T Limit Switches with 1 NO + 1 NC contact or Max 2 Ex Zb D.P.D.T Limit Switches with 2 NC contacts either fitted with IECEx and ATEX Ex e IIC, Ex tb IIIC rated glass reinforced polyester junction box or IECEx and ATEX Ex e IIC, Ex tb IIIC rated 316 Stainless Steel Junction Box.

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. A matched compensation spring must be fitted to the remote end of the Pull Cord to allow tripping in both directions.

INSTALLATIONS

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

DEVICE SETTINGS

Device setting is via a rope grip or 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

IEC 60079 **EN 60079**

ENCLOSURE SPECIFICATIONS

- 2mm 316 Electro Polished Stainless Steel.
- Glass reinforced polyester junction box or IECEx and ATEX Ex e IIC, Ex tb IIIC rated 316 Stainless Steel.
- IECEx and ATEX Ex e IIC, Ex tb IIIC rated 316 Stainless Steel Junction Box.

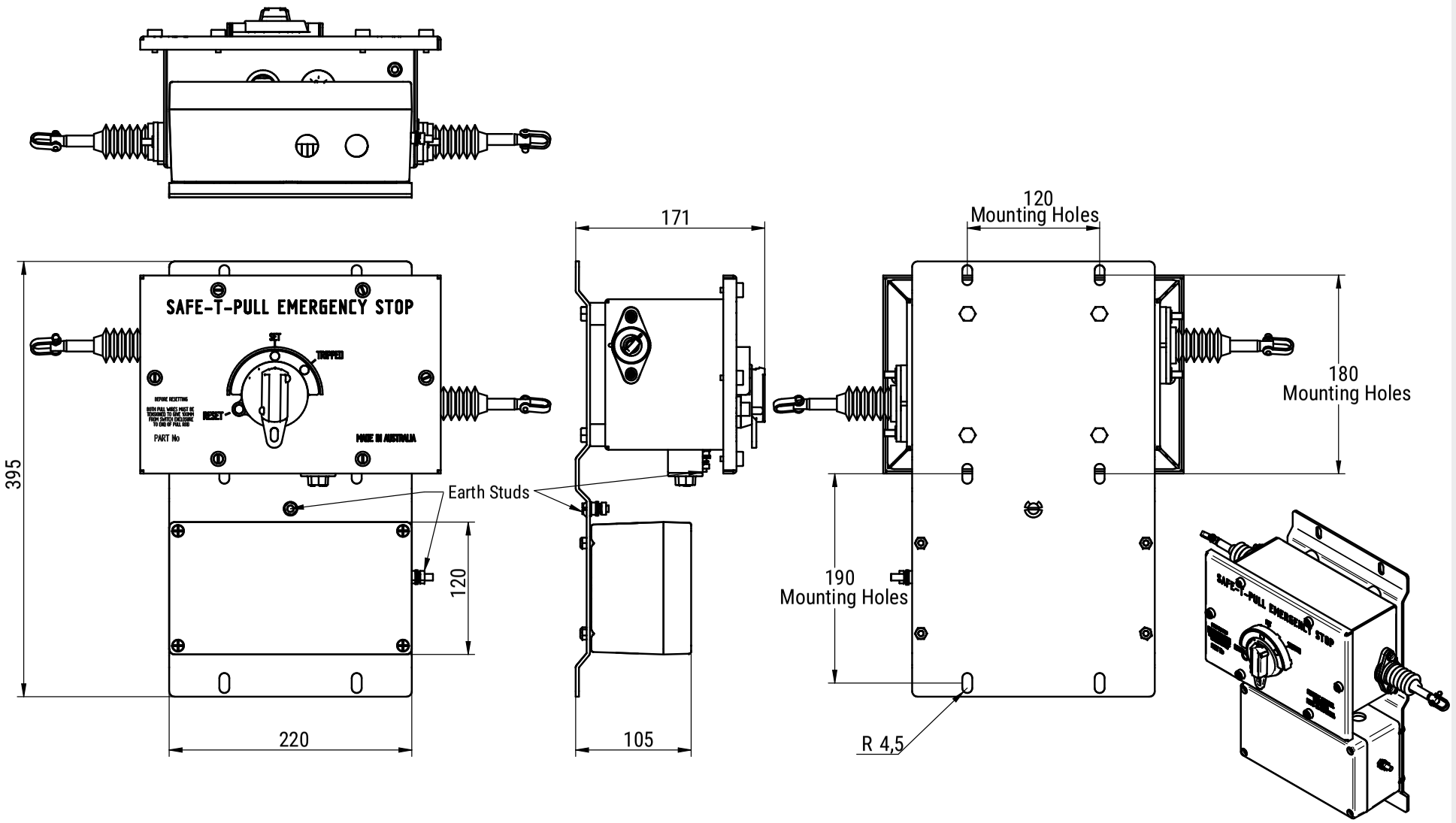
LIMIT SWITCH TECHNICAL DETAILS

DEVICE VERSION PART NUMBER DIP

Standards	EN 60079-0, EN 60079-1, EN 60079-31, EN 60947-5-1; EN ISO 13849-1
Enclosure	glass-fibre reinforced thermoplastic, self-extinguishing UL 94-V0, protective insulation
Switching system	slow or snap action, 1 NC/1 NO, slow action: NC contact with positive break
Degree of protection	IP 65 to IEC/EN 60529
Connection	3- or 4-wire PVC-cable H05 VV-F 0.75 mm ^{2}
B_{10d} (10% nominal load)	2 million
T_M	max. 20 years
Utilisation category	AC-15; DC 13
Rated operating voltage/current	Ex 14: 6 A/250 VAC; 0,25 A/230 VDC, T > 65 °C: 3 A/250 VAC; 4 A/24 VDC; ExM 14 1Ö/1S: 5 A/250 VAC, 0,2 A/230 VDC; ExM 14: 5 A/250 VAC, 0,16 A/230 VDC
Temperature class	Ex 14: T6 / T5; ExM 14: T6
Ambient temperature	Ex 14: T6 = -20 °C to +65 °C, T5 = -20 °C to +75 °C with special heat-resistant cable; ExM 14: T6 = -20 °C to +60 °C
Ex marking	Ex 14: IECEx Ex d IIC T5/T6 Gb Ex tb IIC T80°C/T95°C Db IP65 L II 2G Ex d IIC T6/T5 Gb, II 2D Ex tb IIIC T80°C/ T95°C Db IP65 ExM 14: L II 2G Ex d IIC T6 Gb II 2D Ex tb IIIC T80°C Db IP65
Approvals	Ex 14: PTB 03 ATEX 1070 X, ExM 14 1Ö/1S: PTB 00 ATEX 1006 X ExM 14: PTB 03 ATEX 1069 X

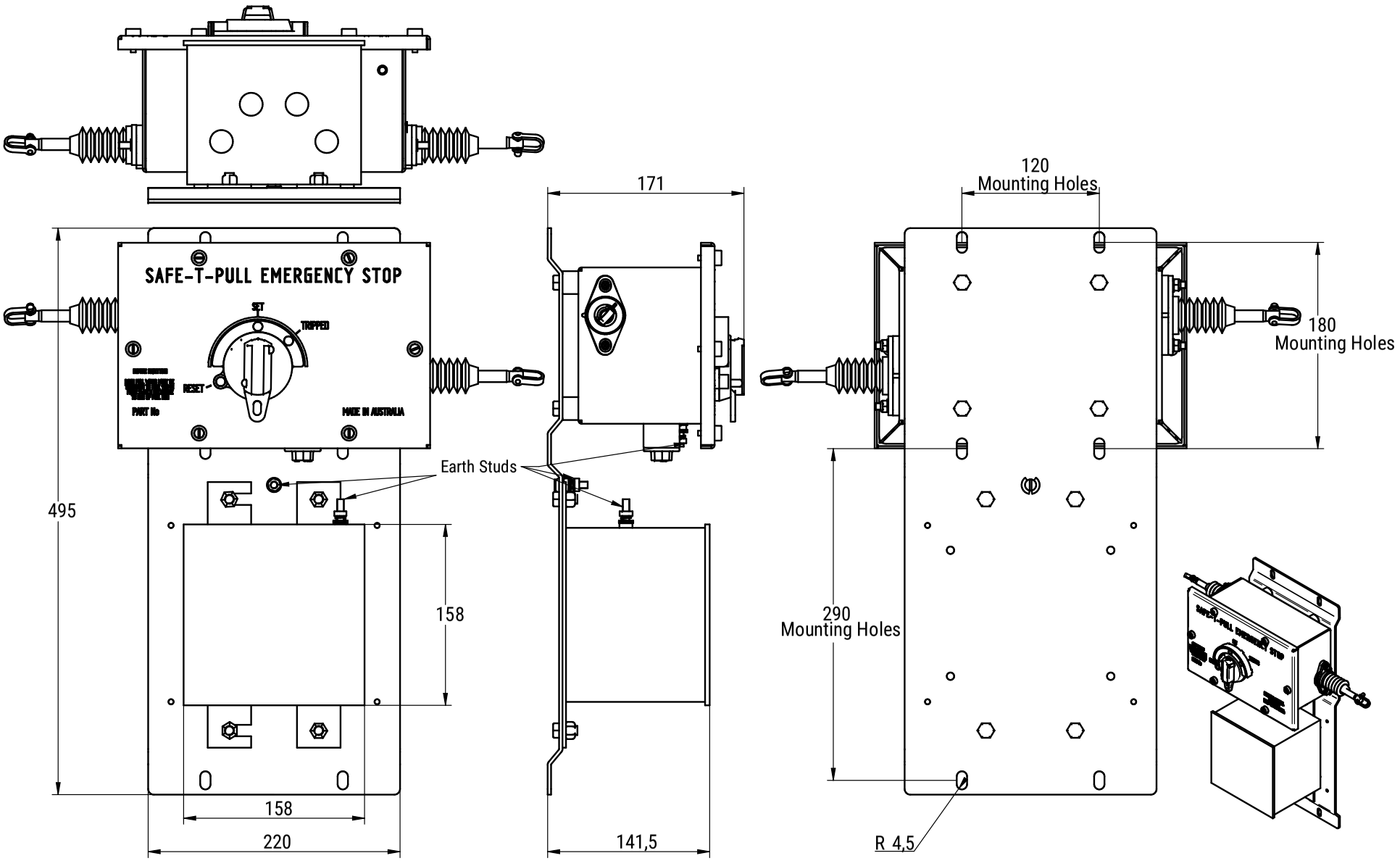
DEVICE VERSION PART NUMBER DIP-NC

Standards	EN 60947-5-1; EN 60079-0, EN 60079-1, EN 60079-31; EN ISO 13849-1
Enclosure	glass-fibre reinforced, shock-proof thermoplastic, self-extinguishing UL 94-V0
Degree of protection	IP 65 to IEC/EN 60529
Switching elements	2 NC contacts with double break Zb, galvanically separated contact bridges, positive break NC contacts A
Connection	cable H05VV-F, 4 x 0.75 mm²
B_{10d} (10 % Load)	2 million
T_M	max. 20 years
U_{imp}	4 kV
U_i	250 V
I_{the}	T6: 6 A, T5: 3 A
I_e/U_e	6 A/250 VAC; 0.25 A/230 VDC
Utilisation category	AC-15; DC-13
Max. fuse rating	6 A gG/gN fuse
Ambient temperature	T6: –20 °C … +65 °C, T5: –20 °C … +90 °C
Note	Switch must be protected from mechanical damage!
Ex marking	L II 2G Ex d IIC T6/T5 Gb, L II 2D Ex tb IIIC T80 °C/T95 °C Db IECEx Ex d IIC T6/T5 Gb, Ex tb IIIC T80 °C/T95 °C Db
Approvals	PTB 03 ATEX 1070 X IECEx PTB 06.0098X



NOTE: WIRING NOT SHOWN

STP-SSB-DIP / -2
STP-SSB-DIP-NC/ -2-NC



NOTE: WIRING NOT SHOWN

STP-SSB-DIP-SS / -2-SS

STP-SSB-DIP-NC-SS/ -2-NC-SS

ORDERING DETAILS

STANDARD DEVICE	PART NUMBER
Safe-T-Pull Lanyard with 1 x Ex DIP (Dust Ignition Proof) rated 1 NO 1NC Zb Slow Action 6A 250V AC, 0.25A 230V DC Silver Contact Limit Switch wired to EX Poly Junction Box mounted on Stainless Steel Backing Plate	STP-SSB-DIP
Safe-T-Pull Lanyard with 2 x Ex DIP (Dust Ignition Proof) rated 1 NO 1NC Zb Slow Action 6A 250V AC, 0.25A 230V DC Silver Contact Limit Switches wired to EX Poly Junction Box mounted on Stainless Steel Backing Plate	STP-SSB-DIP-2
Safe-T-Pull Lanyard with 1 x Ex DIP (Dust Ignition Proof) rated 2 NC Zb Slow Action 6A 250V AC, 0.25A 230V DC Silver Contact Limit Switch wired to EX Poly Junction Box mounted on Stainless Steel Backing Plate	STP-SSB-DIP-NC
Safe-T-Pull Lanyard with 2 x Ex DIP (Dust Ignition Proof) rated 2 NC Zb Slow Action 6A 250V AC, 0.25A 230V DC Silver Contact Limit Switches wired to EX Poly Junction Box mounted on Stainless Steel Backing Plate	STP-SSB-DIP-2-NC
Safe-T-Pull Lanyard with 1 x Ex DIP (Dust Ignition Proof) rated 1 NO 1NC Zb Slow Action 6A 250V AC, 0.25A 230V DC Silver Contact Limit Switch wired to Ex 316 Stainless Steel Junction Box mounted on Stainless Steel Backing Plate	STP-SSB-DIP-SS
Safe-T-Pull Lanyard with 2 x Ex DIP (Dust Ignition Proof) rated 1 NO 1NC Zb Slow Action 6A 250V AC, 0.25A 230V DC Silver Contact Limit Switches wired to Ex Stainless Steel Junction Box mounted on Stainless Steel Backing Plate	STP-SSB-DIP-2-SS
Safe-T-Pull Lanyard with 1 x Ex DIP (Dust Ignition Proof) rated 2 NC Zb Slow Action 6A 250V AC, 0.25A 230V DC Silver Contact Limit Switch wired to Ex Stainless Steel Junction Box mounted on Stainless Steel Backing Plate	STP-SSB-DIP-NC-SS
Safe-T-Pull Lanyard with 2 x Ex DIP (Dust Ignition Proof) rated 2 NC Zb Slow Action 6A 250V AC, 0.25A 230V DC Silver Contact Limit Switches wired to Ex Stainless Steel Junction Box mounted on Stainless Steel Backing Plate	STP-SSB-DIP-2-NC-SS
ADD TO ABOVE CAT NO. FOR VARIATIONS:	
Left hand operation only	-LH
Right hand operation only	-RH

For Correct Ordering Please Refer to the Safe-T-Pull Installation Instructions via the QR Code →