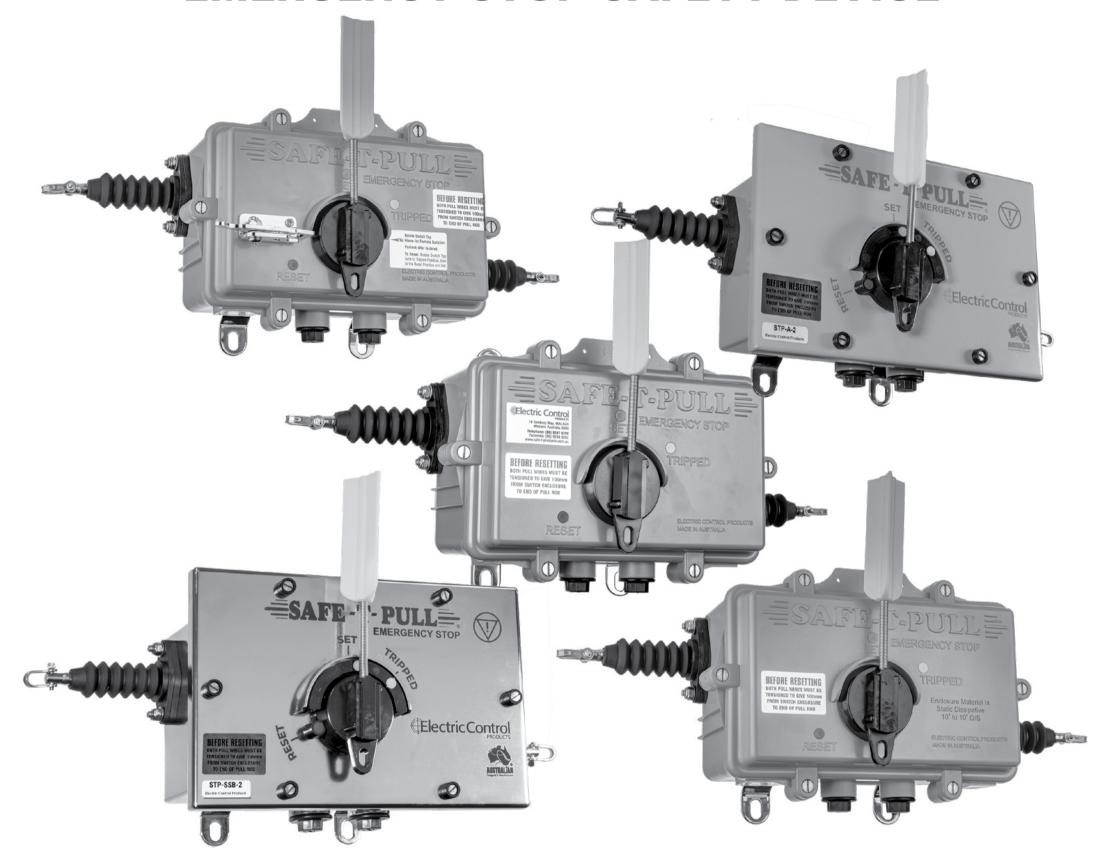
### INSTALLATION, DESIGN, SETTING INSTRUCTION AND TECHNICAL DOCUMENTATION

### **TECHNICAL DOCUMENT**



## EMERGENCY STOP SAFETY DEVICE



**SAFE - T - PULL** 

#### PLEASE VISIT OUR YOUTUBE CHANEL OR WEBSITE FOR MORE INFORMATION



FOR MORE INFORMATION



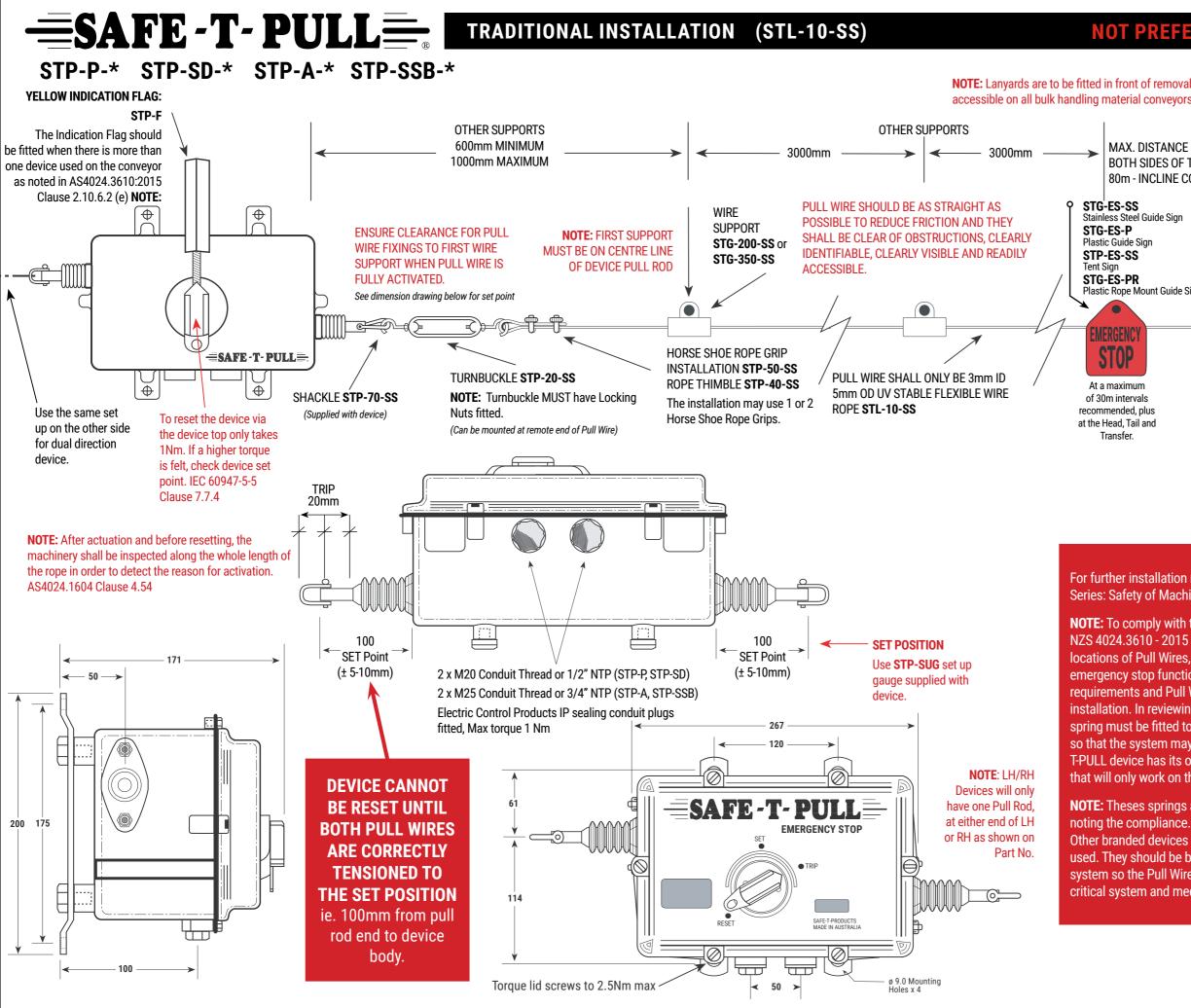
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PUB. No. TD\_STP V1.5

#### TARGETING CONVEYOR SAFETY



2 ACN: 060 617 987 | www.safe-t-products.com.au

### **NOT PREFERRED**

**NOTE:** Lanyards are to be fitted in front of removable guards, nip and shear points that are accessible on all bulk handling material conveyors and not to be replacements for guards.

> MAX. DISTANCE RECOMMENDATION: BOTH SIDES OF THE DEVICE 100m - STRAIGHT CONVEYOR 80m - INCLINE CONVEYOR (OVER 5°)

MATCHED SS PIG TAIL COMPENSATION SPRING STP-90-SS STP-E60 (See note below) Plastic Rope Mount Guide Sign 50mm ₽**C** HORSE SHOE ROPE SHACKLE **GRIP INSTALLATION** 

STP-50-SS The installation may use 1 or 2 Horse Shoe Rope Grips. **ROPE THIMBLE** STP-40-SS

STP-75-SS For shackle security "Mouse" the shackle after installation.

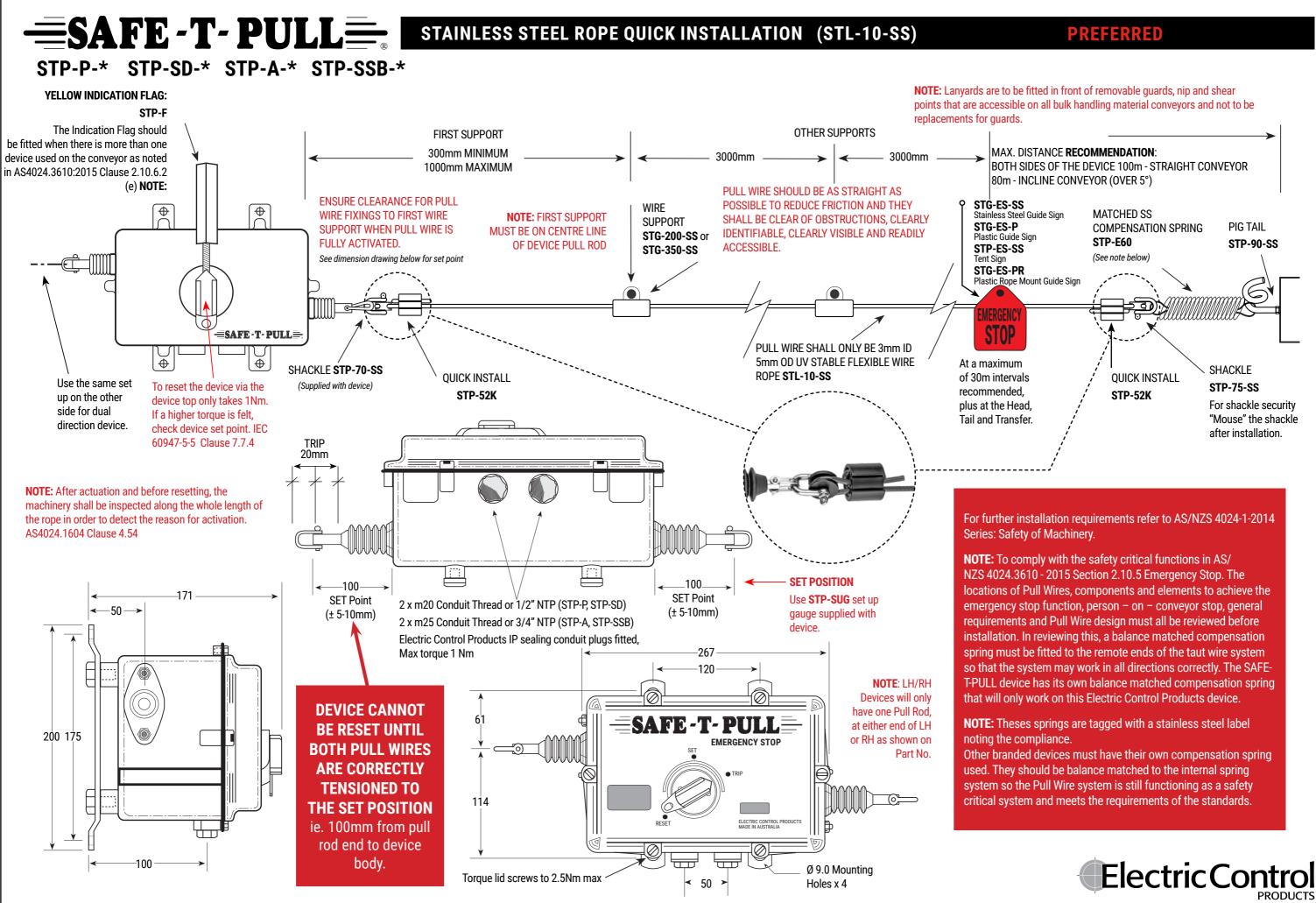
For further installation requirements refer to AS/NZS 4024-1-2014 Series: Safety of Machinery.

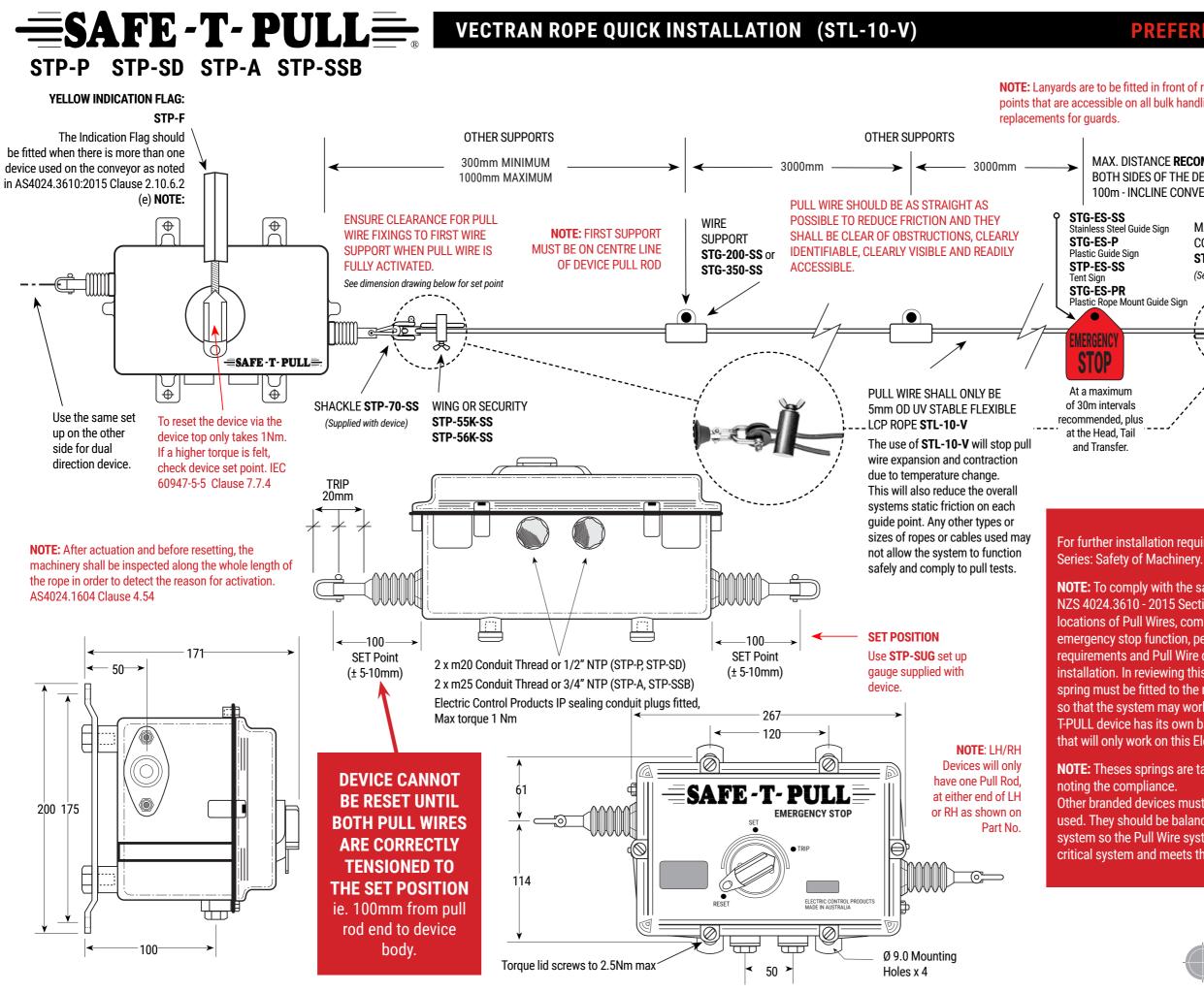
**NOTE:** To comply with the safety critical functions in AS/ NZS 4024.3610 - 2015 Section 2.10.5 Emergency Stop. The locations of Pull Wires, components and elements to achieve the emergency stop function, person – on – conveyor stop, general requirements and Pull Wire design must all be reviewed before installation. In reviewing this, a balance matched compensation spring must be fitted to the remote ends of the taut wire system so that the system may work in all directions correctly. The SAFE-T-PULL device has its own balance matched compensation spring that will only work on this Electric Control Products device.

**NOTE:** Theses springs are tagged with a stainless steel label

Other branded devices must have their own compensation spring used. They should be balance matched to the internal spring system so the Pull Wire system is still functioning as a safety critical system and meets the requirements of the standards.







#### PREFERRED

NOTE: Lanyards are to be fitted in front of removable guards, nip and shear points that are accessible on all bulk handling material conveyors and not to be

> MAX. DISTANCE RECOMMENDATION: BOTH SIDES OF THE DEVICE 100m - STRAIGHT CONVEYOR 100m - INCLINE CONVEYOR (OVER 5°) MATCHED SS COMPENSATION SPRING **PIG TAIL** STP-E60 STP-90-SS (See note below) 70000000000000000 SHACKLE WING OR SECURITY STP-75-SS STP-55K-SS For shackle security STP-56K-SS "Mouse" the shackle after installation.

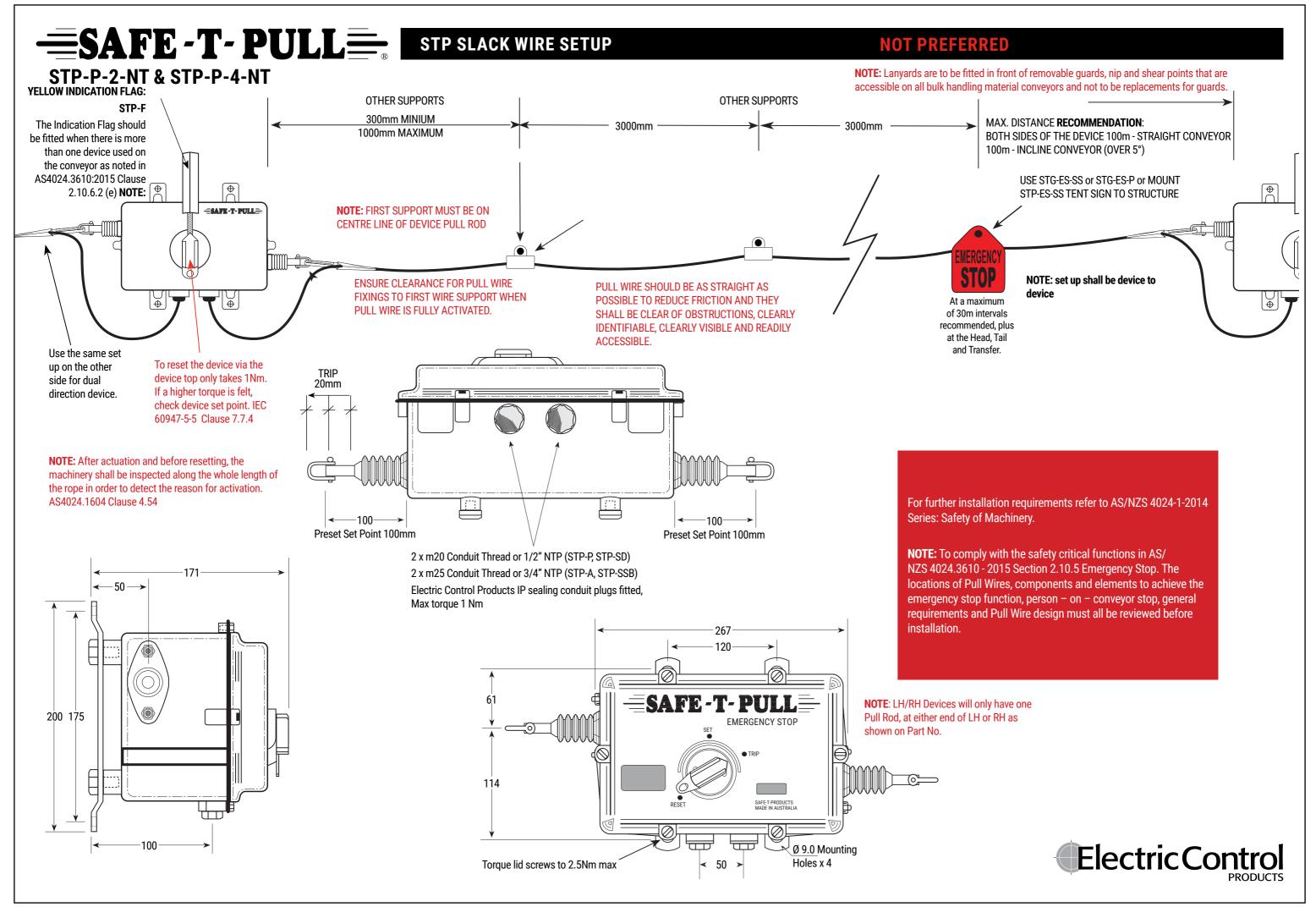
For further installation requirements refer to AS/NZS 4024-1-2014

**NOTE:** To comply with the safety critical functions in AS/ NZS 4024.3610 - 2015 Section 2.10.5 Emergency Stop. The locations of Pull Wires, components and elements to achieve the emergency stop function, person – on – conveyor stop, general requirements and Pull Wire design must all be reviewed before installation. In reviewing this, a balance matched compensation spring must be fitted to the remote ends of the taut wire system so that the system may work in all directions correctly. The SAFE-T-PULL device has its own balance matched compensation spring that will only work on this Electric Control Products device.

**NOTE:** Theses springs are tagged with a stainless steel label

Other branded devices must have their own compensation spring used. They should be balance matched to the internal spring system so the Pull Wire system is still functioning as a safety critical system and meets the requirements of the standards.

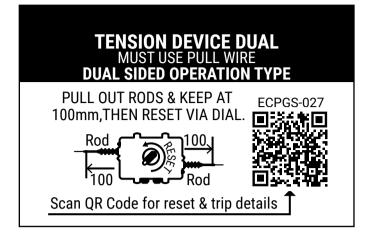






## Electric Control

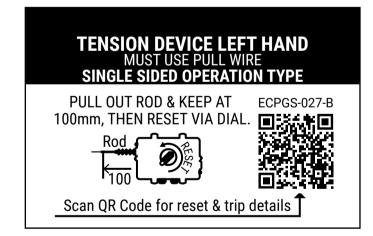
#### **RESETTING DIAGRAMS**



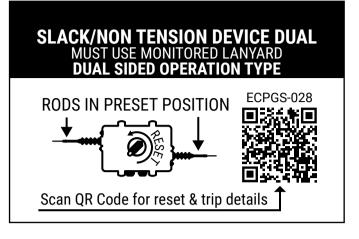
STP-P, -SD, -A, -SSB



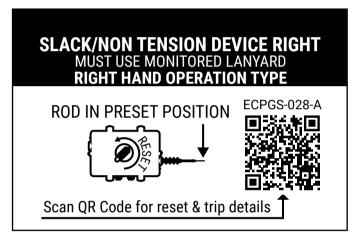
STP-P-RH, -SD-RH, -A-RH, -SSB-RH



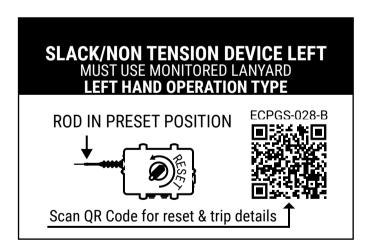
**STP-P-LH,** -SD-LH, -A-LH, -SSB-LH



STP-P-NT, -SD-NT, -A-NT, -SSB-NT



**STP-P-NT-RH,** -SD-NT-RH, -A-NT-RH, -SSB-NT-RH



STP-P-NT-LH, -SD-NT-LH, -A-NT-LH,

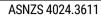
#### -SSB-NT-LH

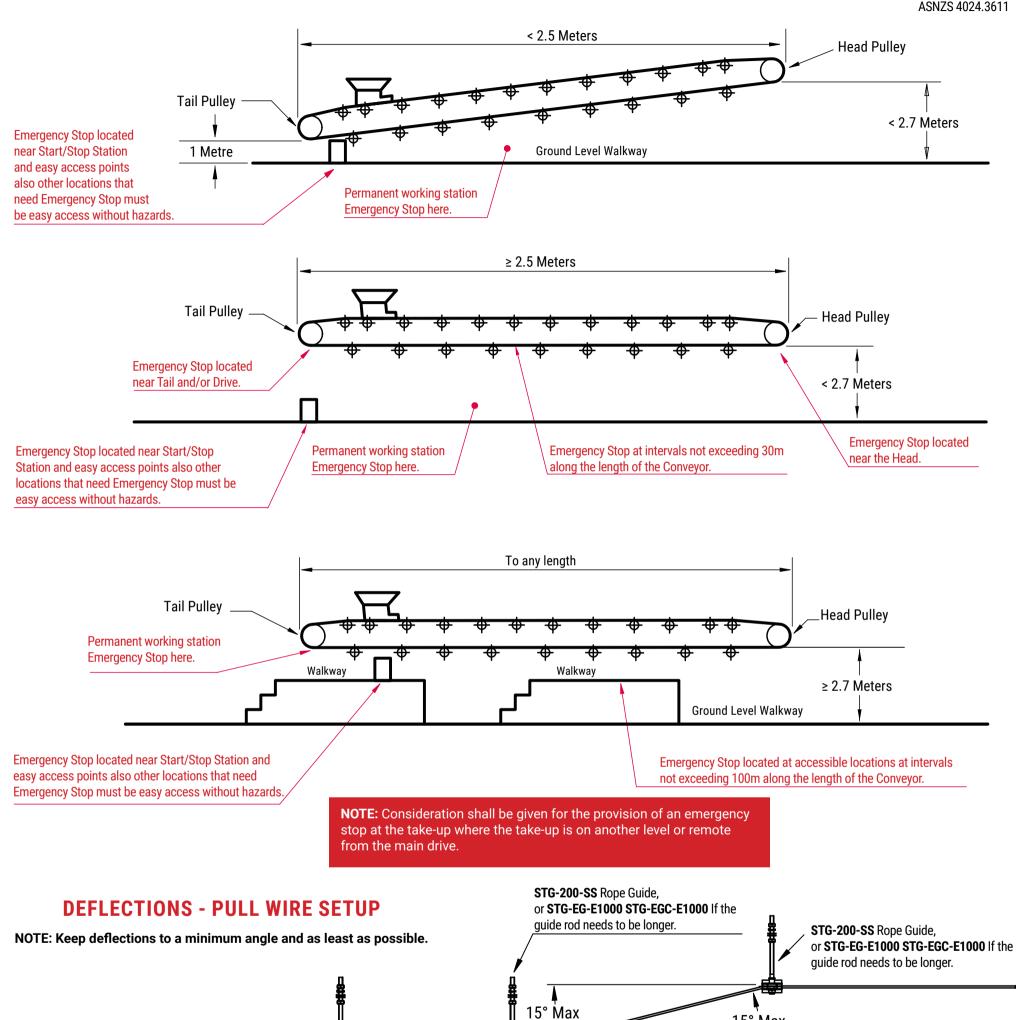
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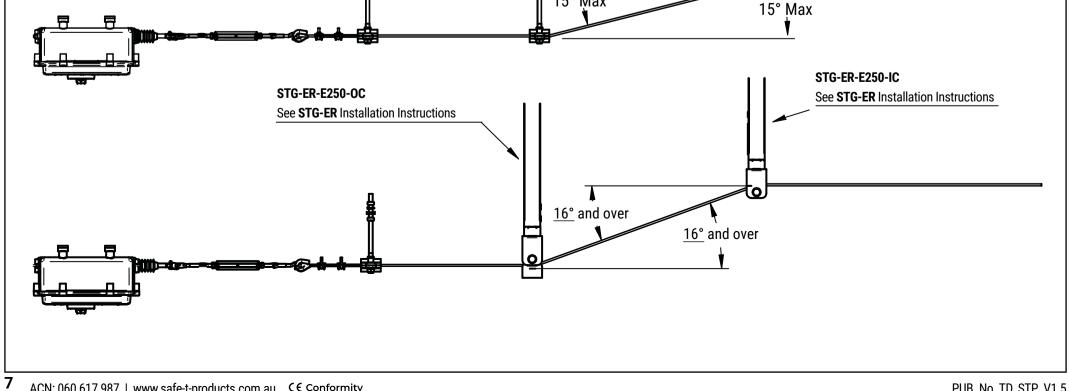
## **Electric** Control

PRODUCTS

#### **BULK HANDLING MATERIAL CONVEYORS: LOCATION OF EMERGENCY STOPS**





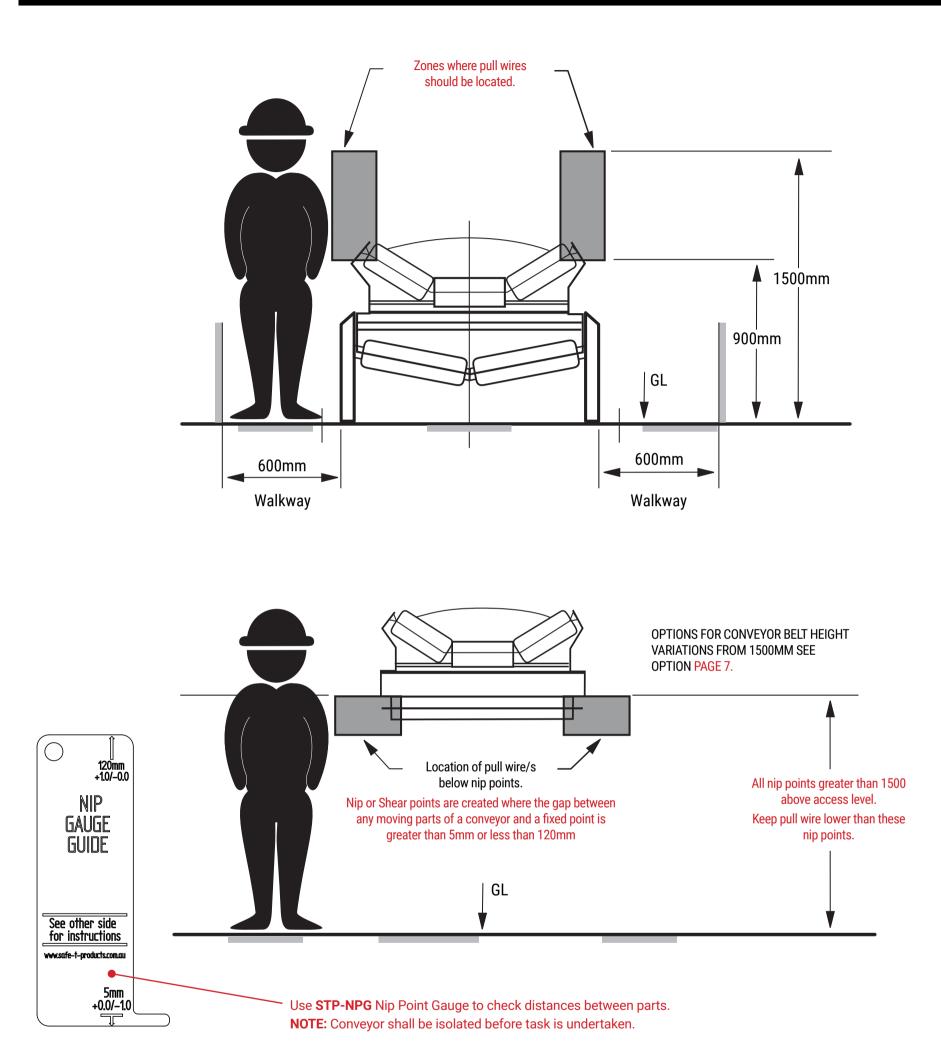


STP-P STP-SD STP-A STP-SSB

LOCATION OF PULL WIRE

PRODUCTS

**Electric** Control



#### LOCATIONS OF PULL WIRES

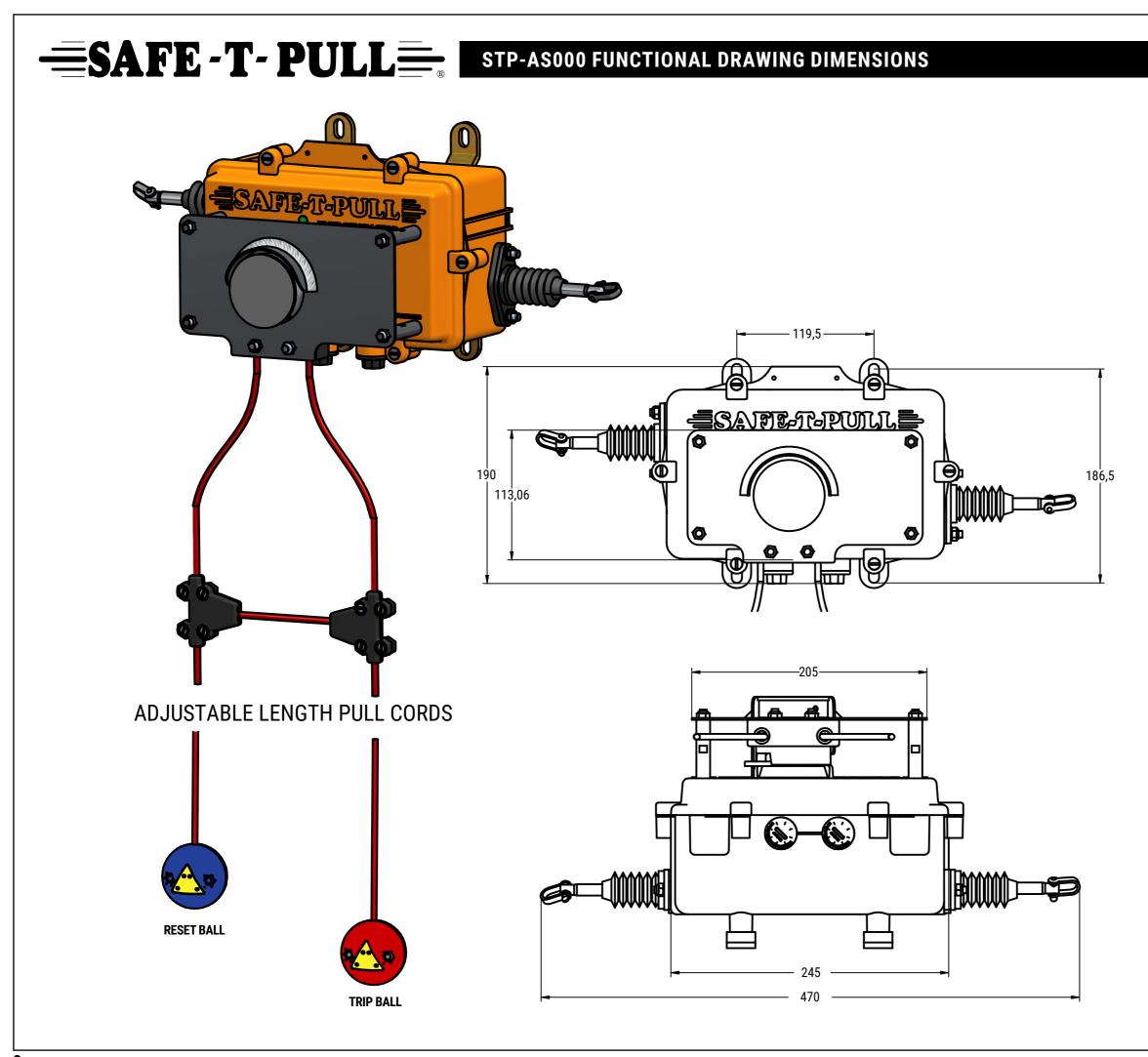
The design risk assessment shall determine the most favourable location for the pull wire systems location.

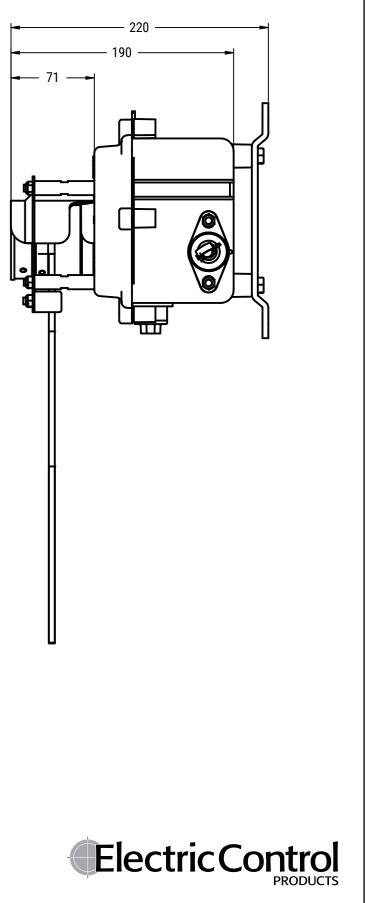
Where practicable, pull wires should be in such a manner that they are, clearly visible, adding signs or colour of pull wires can help. Readily accessible for any personnel that potentially may become trapped in a danger area or any personnel that may be nearby. Outside any readily removable guard and external to the vertical line of any nip or shear point. They should be no further than 1m from the nip or shear point.

At least 900mm above the access floor. Should be no more than 1500mm above the access floor. Where required to be higher than 1500mm, the pull wire system should be located lower that the nip or shear points.

Also, the consideration of the potential for a person to inadvertently be on a moving conveyor, the severity of injury to a person due to this event and whether a risk control needs to be in place.

ELECTRIC CONTROL PRODUCTS recommends the "Collide Safe" Man-On-Belt device for this application.



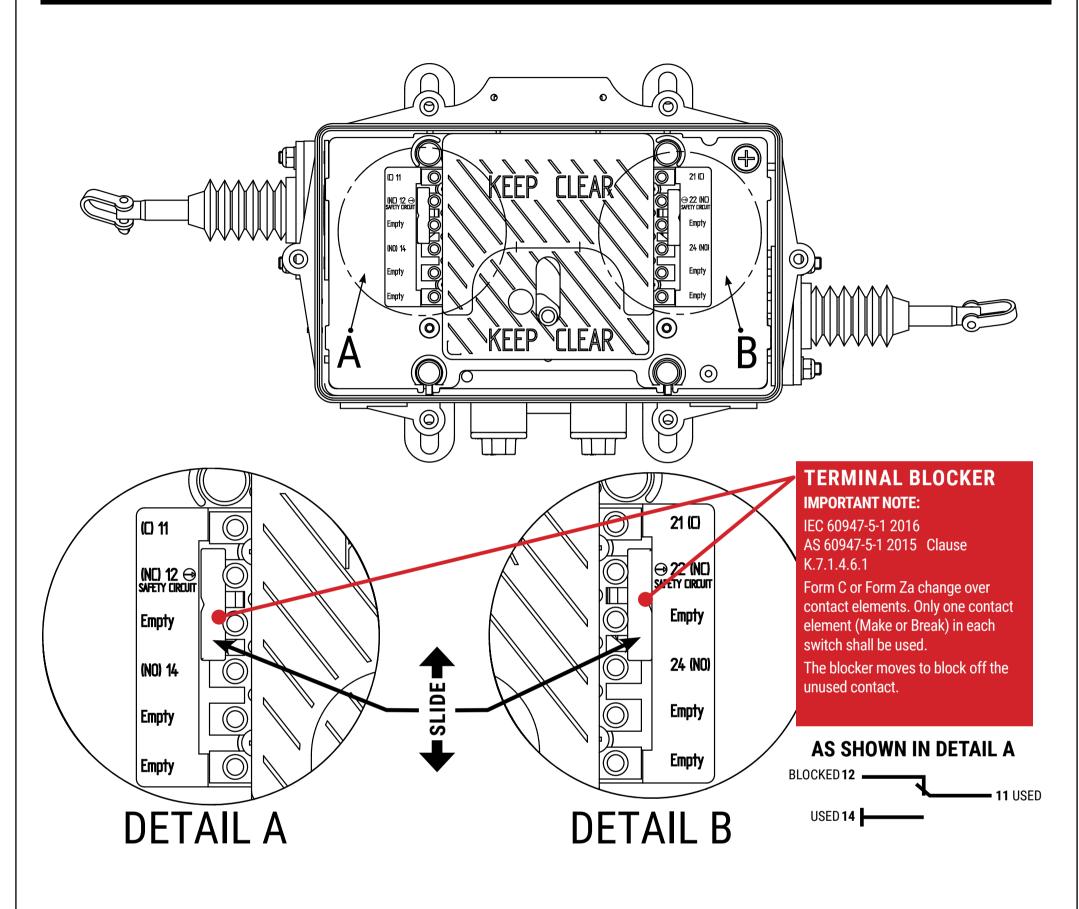




#### STP-P-2\* STP-SD-2\* STP-A-2\* STP-SSB-2\*

Electric Control

MICRO SWITCH CIRCUIT DIAGRAM

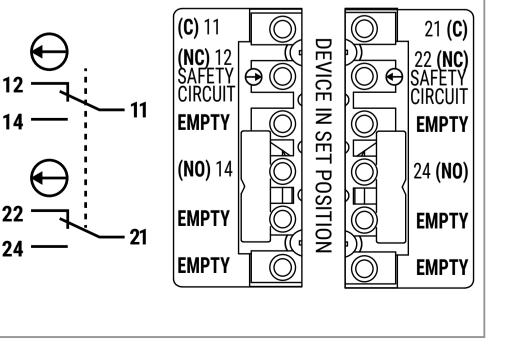


#### **GENERAL CHARACTERISTICS**

Safety Micro Switch with Direct Opening A IEC 60947-5-1 Annex K classification	· · · _ · ·	2 Direct Opening	
Change-over contact element			
Contact material			
Utilization category	AC-15	DC-13	
Operational voltage	260 V	60 V DC	
Operational current	1,5 A	0.5 Amp DC	
Frequency	50/60 Hz		
Number of electrical cycles	6050 (6	5 min-1)	
Number of mechanical cycles	6050 (6 min-1)		
Conventional free air thermal current	10A		
Conventional enclosed thermal current			
IP Rating	67		
Service Temperature	-30° C No Icing	+80° C	
	•	•	
Specifications (short-circuit with standab	ility)		
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)	

### **CIRCUIT INFORMATION**

#### 2 X FORM C SAFETY SWITCHES FITTED WITH DIRECT OPENING ACTION IP66/67

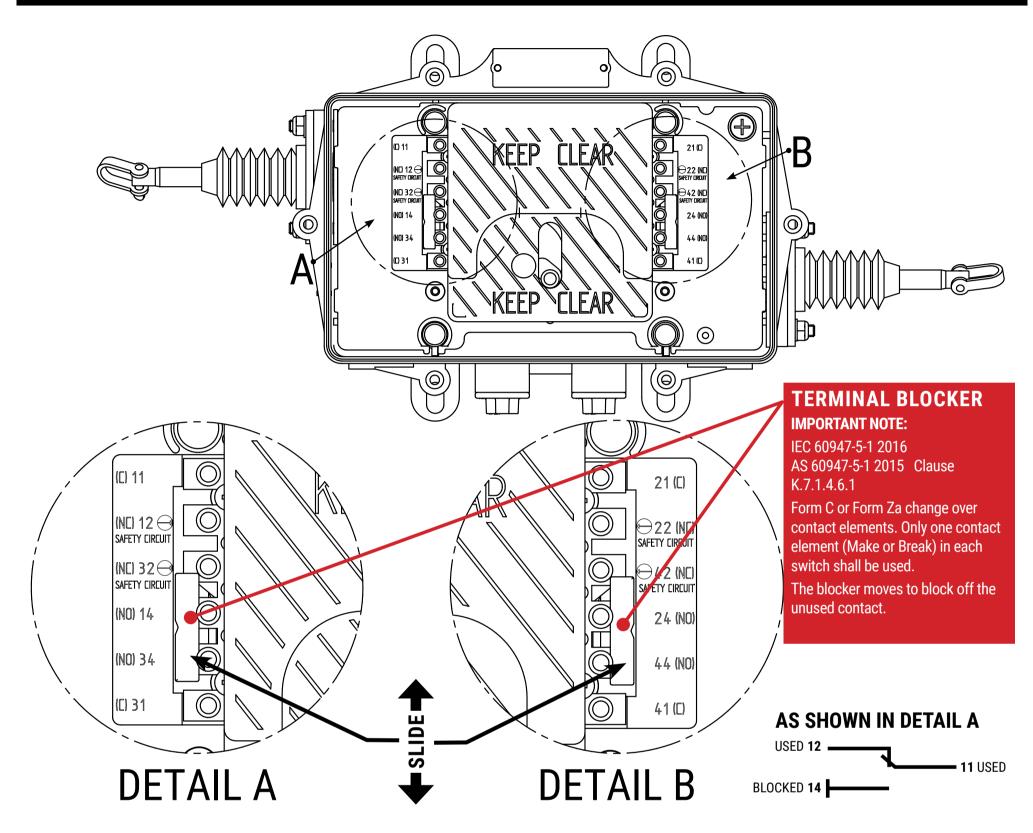




#### STP-P-4\* STP-SD-4\* STP-A-4\* STP-SSB-4\*

Electric Control

MICRO SWITCH CIRCUIT DIAGRAM

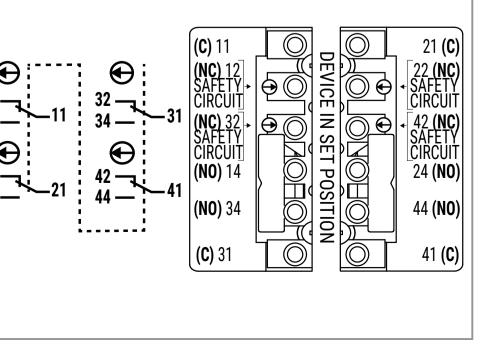


### **GENERAL CHARACTERISTICS**

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	Aç	Ag-Ni		
Utilization category	AC-15	DC-13		
Operational voltage	260 V	60 V DC		
Operational current	1,5 A	0.5 Amp DC		
Frequency	50/60 Hz			
Number of electrical cycles	6050 (6	6050 (6 min-1)		
Number of mechanical cycles	6050 (6 min-1)			
Conventional free air thermal current	10A			
Conventional enclosed thermal current				
IP Rating	67			
Service Temperature	-30° C No Icing	+80° C		
	•	•		
Specifications (short-circuit with standab	ility)			
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)		

#### **CIRCUIT INFORMATION**

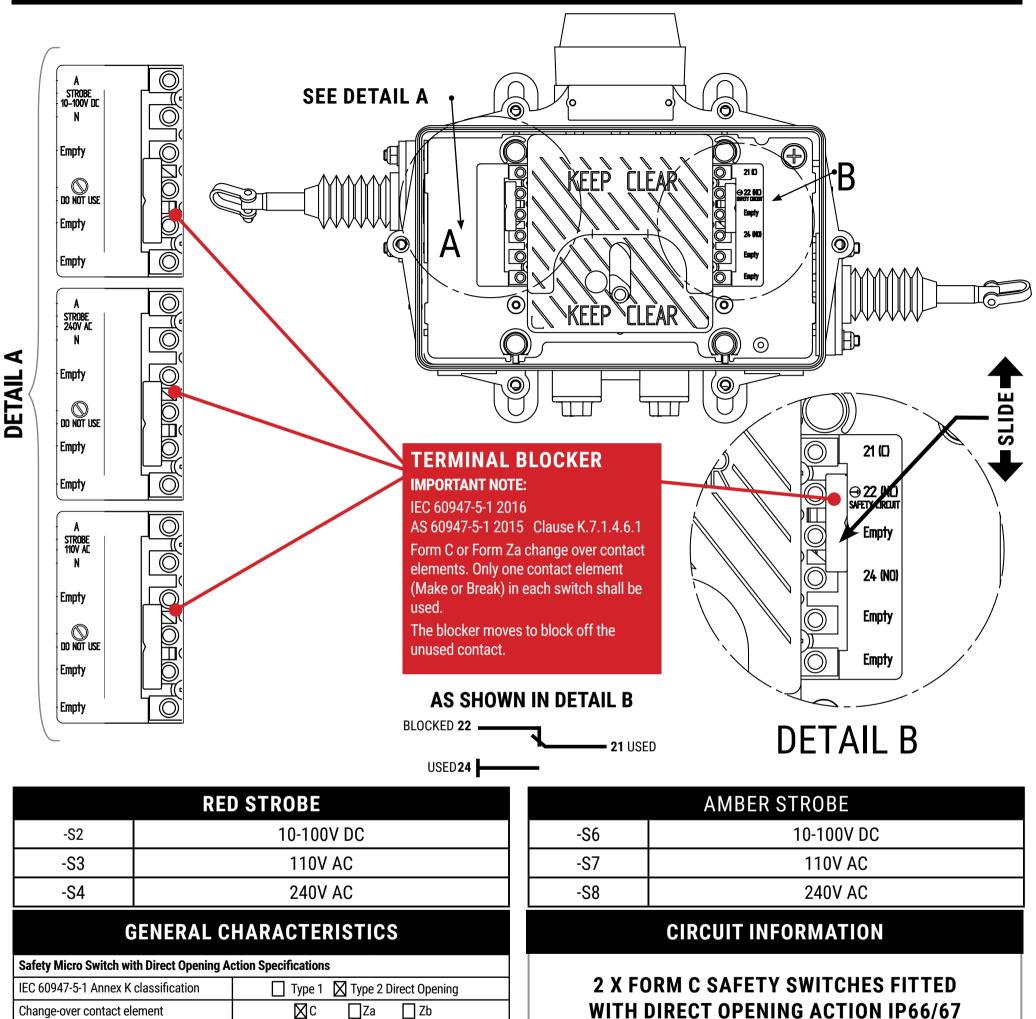
#### 4 X FORM C SAFETY SWITCHES FITTED WITH DIRECT OPENING ACTION IP66/67



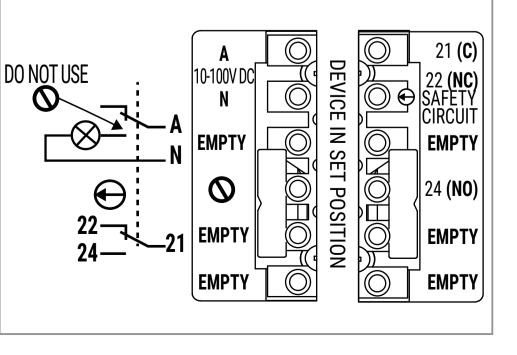
## Electric Control

### STP-P-2-S\* STP-A-2-S\* STP-SSB-2-S\*

**MICRO SWITCH CIRCUIT DIAGRAM - STROBE LIGHT** 



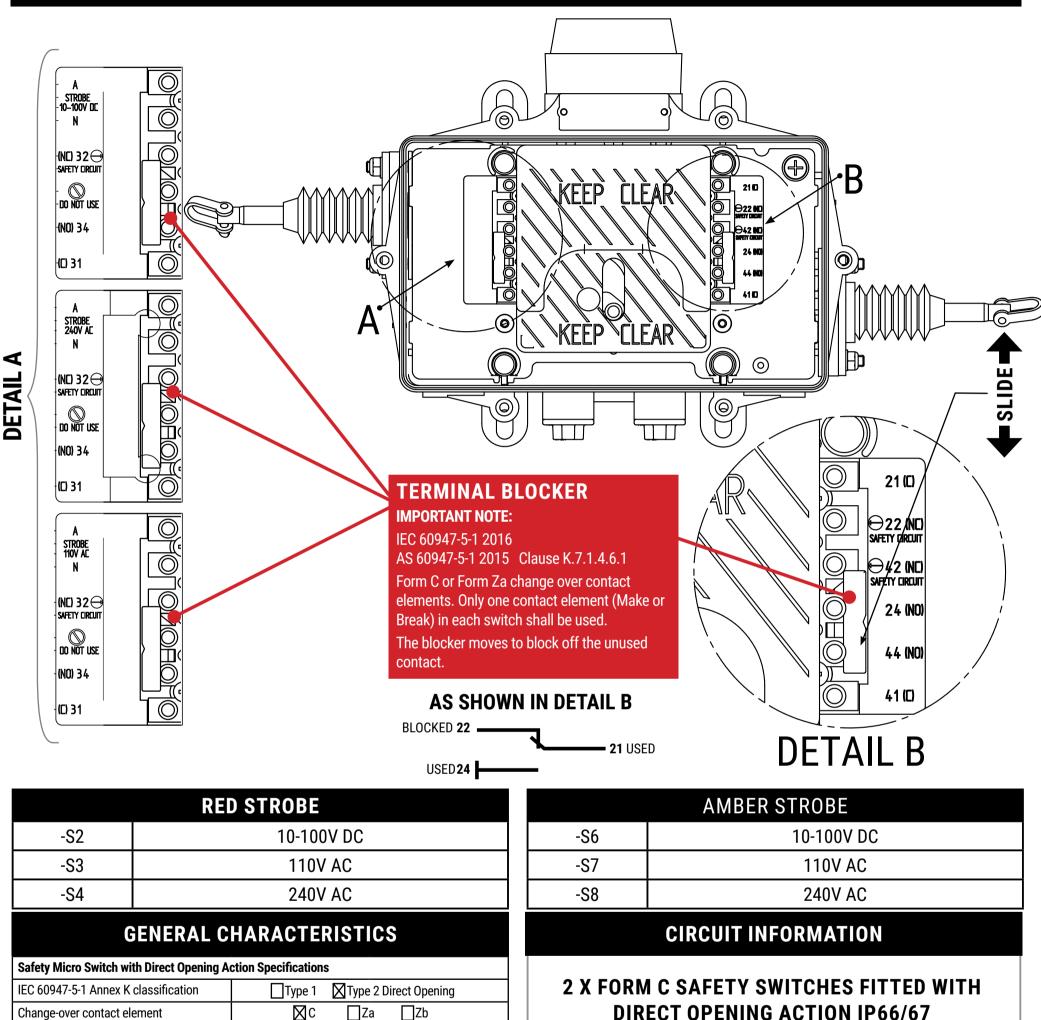
Contact material	Ag-Ni			
Utilization category	AC-15 DC-13			
Operational voltage	260 V 60 V DC			
Operational current	1,5 A	0.5 Amp DC		
Frequency	50/60 Hz			
Number of electrical cycles	6050 (6	6050 (6 min-1)		
Number of mechanical cycles	6050 (6	6050 (6 min-1)		
Conventional free air thermal current	10A			
Conventional enclosed thermal current				
IP Rating	67			
Service Temperature	-30° 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)		



#### STP-P-4-S\* STP-A-4-S\* STP-SSB-4-S\*

**MICRO SWITCH CIRCUIT DIAGRAM - STROBE LIGHT** 

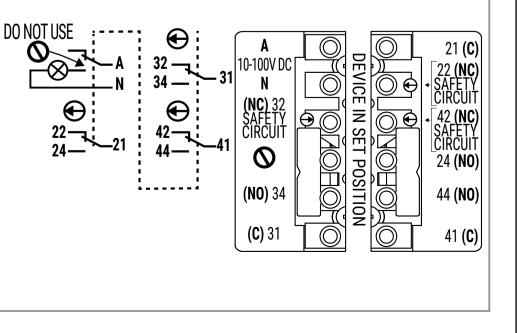
**Electric** Control



**DIRECT OPENING ACTION IP66/67** 

Contact material	Ag-Ni		
Utilization category	AC-15	DC-13	
Operational voltage	260 V	60 V DC	
Operational current	1,5 A	0.5 Amp DC	
Frequency	50/60 Hz		
Number of electrical cycles	6050 (6	5 min-1)	
Number of mechanical cycles	6050 (6 min-1)		
Conventional free air thermal current	10A		
Conventional enclosed thermal current			
IP Rating	67		
Service Temperature	-30° C No Icing	+80° C	
	•	^	
Specifications (short-circuit with standabi	lity)		
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)	

Za



Change-over contact element

# Electric Control

### STP-P-\* STP-SD-\* STP-A-\* STP-SSB-\*

#### **STANDARD**

The SAFE-T-PULL complies with the relevant parts of these Standards

IEC 60947-5-1 Ed 3.1	Control circuit devices & switching elements
AS/NZS IEC 60947-5-1:2015	Control circuit devices & switching elements
IEC 60947-5-5 Ed 1.1	Control circuit devices & switching elements-Electrical emergency stop devices with mechanical latching function.
AS/NZS IEC 60947.5.5:2015	Control circuit devices & switching elements-Electrical emergency stop devices with mechanical latching function.
AS/NZS 4024.1-2014	Safety of Machinery.
AS/NZS 4024.3610:2015	Safety of Machinery, conveyors, general requirements.
AS/NZS 4024.3611:2015	Safety of Machinery, conveyors, belt conveyors for bulk materials handling.
SD Enclosures MDG 3608 7.2.2.1	Non-metallic materials for use in underground coal mines.
Ce Conformity to:	
2006/42/EC	Machinery Directive
2014/35/EU	Low Voltage Directive

#### **WORKSHOP TESTED**

All devices are either hand or automation tested by trained technicians before leaving ELECTRIC CONTROL PRODUCTS and have a date and name label of manufacture inside them. The devices are then packed insuring full working order to our stringent test parameters.

A certification certificate is available on request for full compliance to the relevant standards.

#### **MODIFICATIONS OF DEVICE**

Any modifications are ONLY to be made by ELECTRIC CONTROL PRODUCTS or one of their registered repairers. Any unauthorized modifications may not comply with the relevant standards and may diminish the integrity and workings of the device and the warranty will become void.

ELECTRIC CONTROL PRODUCTS and their registered repairers or distributors will not be responsible for any damage caused to the altered device or any item in, on, related or near the device, nor any injury incurred, nor actions resulting from the unauthorized alterations.

#### **RETURNS POLICY/RE-STOCKING**

Please return any defective device to place of purchase for assessment. If they are deemed to be warranty repairs or not. Return warranty devices as per warranty clause. Restocking returns will only be accepted if received by ELECTRIC CONTROL PRODUCTS in their original condition and within thirty (30) days of delivery date stated on delivery documentation. A restocking fee applies (contact place of purchase for costs).

#### WARRANTY

ELECTRIC CONTROL PRODUCTS of Perth Western Australia contact <u>info@safe-t-products.com.au</u> warranty period is Twenty Four (24) months from date of purchase or longer if indicated by ELECTRIC CONTROL PRODUCTS. For warranty to be valid the goods must be received by ELECTRIC CONTROL PRODUCTS before the end of the Twenty Four (24) month period. ELECTRIC CONTROL PRODUCTS warrants that if any product is defective, it will, at its option, replace or repair the product. This warranty shall not apply to any defect which arises from improper use, failure to follow the products instruction, or any repair or modification made without the consent of ELECTRIC CONTROL PRODUCTS.

The customer must contact the Distributor of the product or ELECTRIC CONTROL PRODUCTS of Perth Western Australia via Email info@safet-products.com.au before returning the faulty product. If returned they must be suitably packaged and, where relevant, returned in accordance with any particular instructions which ELECTRIC CONTROL PRODUCTS or one of its distributors may have notified the customer at the time of contact for warranty. Returned products must be accompanied by an advice note stating the nature of any defect being claimed. Any products or parts which are replaced by ELECTRIC CONTROL PRODUCTS or one of its distributors shall become the property of ELECTRIC CONTROL PRODUCTS. Title to replacement products shall pass to the customer on delivery, and the period of the warranty shall be calculated from the date of the defective product.

All warranty returns to ELECTRIC CONTROL PRODUCTS will be sent by the customer's freight at their cost. All benefits under this warranty are in addition to other rights and remedies of the consumer under a law in relation to the goods or services to which the warranty relates. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

# Electric Control

### STP-P-\* STP-SD-\* STP-A-\* STP-SSB-\*

### **PRODUCT LIFE EXPECTANCY**

ELECTRIC CONTROL PRODUCTS estimate the product life expectancy to 10-15 years. Products should be changed after a maximum of 10 year life.

**NOTE:** Color fading is not necessarily product failure but a natural progression of any materials through it's life span. This is also dependent on the environment the product is installed in. A shorter or longer product life maybe experienced due to environmental situations. ELECTRIC CONTROL PRODUCTS can't give a written life expectancy on any of it's products due to the different situations the products are used.

#### **TECHNICAL SUPPORT**

Technical advice will be given at any time by ELECTRIC CONTROL PRODUCTS or Distributor on any of the Electric Control Product range. Contact ELECTRIC CONTROL PRODUCTS or your local Distributor for this service.

#### **OBSOLETE PRODUCTS**

Notification will be given to Distributors only for the products becoming obsolete and a time frame of when this will occur. Please contact Distributors for this information.

The obsolete product range will have spare parts for 12 months after becoming obsolete or until they run out, complete products may be available for a short time after it has become obsolete.

#### LOCATION OF EMERGENCY STOPS

Emergency stops shall be located at each operator control station and other locations were emergency stop is required. Conveyors not greater than 2.5m in length and less than 2.7m above the floor, walkway or platform. A single stop control at a location which is easily accessible by the operator is all that is needed.

Conveyors greater than 2.5m in length and less than 2.7m above the floor, walkway or platform. They must have an emergency stop at the head, tail, drive and intervals not exceeding 30m along the length of the conveyor. Overland and long conveyors must have emergency stops every 30m so lanyards are advised to be used for best coverage for safety critical function.

Conveyors greater than 2.7m above the floor, walkway or platform. Locate emergency stops at positions were accessible and at intervals not exceeding 100m along the conveyor. Lanyards or Emergency Stop buttons may be used.

Emergency stop at positions adjacent to the conveyor where it can be started. Emergency stop at every permanent working station.

#### **6 MONTHLY MAINTENANCE PROCEDURE**

All devices require minimal maintenance but as in AS 4024.3610-2015 maintenance procedure shall be carried out.

Check that the devices are installed as per installation instructions.

Visual inspection of enclosure to ensure IP66/67 rating and correctly operating device. i.e. Damaged enclosure, bent pull rod, damaged dust boot etc.

Inspect all attachments are tight, free from obstructions and not worn and replace if necessary.

Inspect pull wire supports for wear, deterioration and build up of material, replace if necessary.

Inspect pull wire for wear or deterioration and replace if necessary.

Check that the pull rods are tensioned to the set position as per installation instructions, using either tape measure/ruler or **STP-SUG** gauge supplied with the device. (See page 1 for information)

**NOTE:** Pigtails and Eyebolts make very high static friction points and cause excessive wear and system disruption. ELECTRIC CONTROL PRODUCTS recommends the SAFE-T-GUIDE for critical safety function.



### STP-P-\* STP-SD-\* STP-A-\* STP-SSB-\*

### **=SAFE - T - SPRING**

The STP-E60 is the replacement of the STP-H60 compensation spring.

The STP-E60 reduces spring friction and material build up; As a result, the emergency stop systemis more reliable with less maintenance needed.

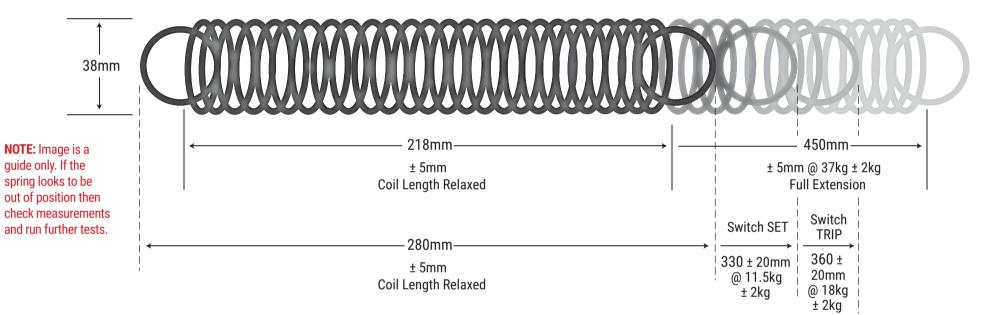


Compensation Spring is designed to be used with SAFE-T-PULL Lanyard Devices only.

### **IMPORTANT MESSAGE**

It's been found that the use of copper-based materials in mining situations can produce hazardous or explosive substances. This explosive material process is the reaction between copper or copper alloys being exposed to ammonium nitrate; a substance used extensively in mine explosives. This reaction between the two components causes a corrosion that is usually blue in colour. This blue corrosion maybe the explosive tetraamine copper nitrate (TACN) which is formed when moisture, air, ammonia, copper, and electrical currents combine. When TACN dries it becomes an impact sensitive explosive. Electric Control Products used a tinned copper crimp on the STP-E60 compensation springs which has now been found that this could potentially become an explosive issue in the right conditions. Electric Control Products with this new information has now moved to the use of a stainless-steel crimp for the tether wire crimping in the STP-E60 spring.

### **STP-E60 COMPENSATION SPRING REFERENCE**



### FULL SAFETY MAINTENANCE PROCEDURE AT 12 MONTH RECOMMENDED INTERVALS, OR AS PER APPLIED RISK ASSESSMENT

#### TEST 1

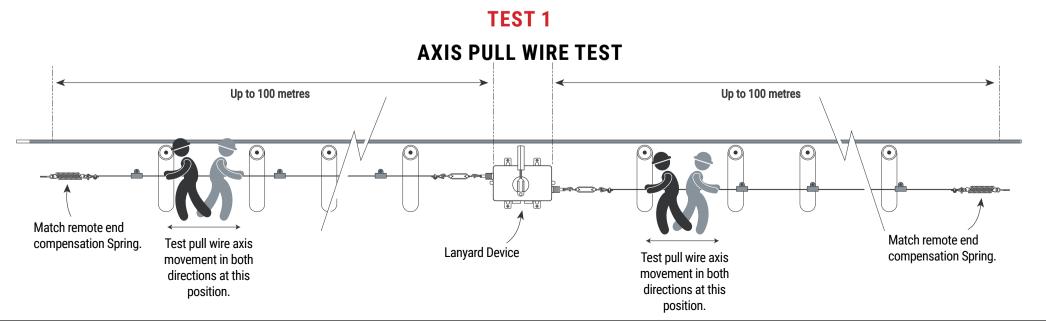
Test that the SAFE-T-PULL Lanyard operates correctly.

This test is best done at the spring end of the pull wire system. This only needs to be done in each direction once. After each trip a device will need to be reset before the next test is to be conducted.

The system should pull and trip easily in each direction. No recorded pull measurements are needed for this test. This is just a pull wire movement test before test 2 is performed.

If the pulling of the wire is difficult or feels hard (should be less than,10Kgf) then check the installation for worn pull wire, sharp bends, bent supports or items trapping the wire. If the problem is still present, contact the supplier of the product for advice.

**NOTE:** Keeping the pull wire straight or making sure to use long curved bends or **STG-ERD-E\_\_\_\_** roller guides to bend around corners should keep the pull parameters in check.



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# Electric Control

### STP-P-\* STP-SD-\* STP-A-\* STP-SSB-\*

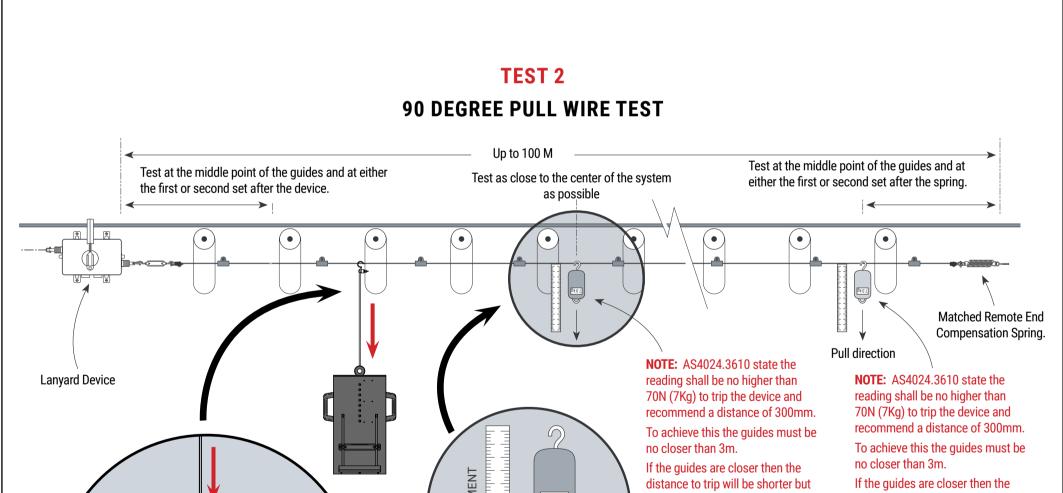
#### **TEST 2**

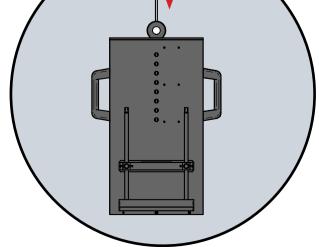
Reset and attach calibrated or some other calibrated weight measurement device to the pull wire (See Figure 2), 90 degrees to the pull wire axis. A length measurement needs to be taken as well in this test. The test needs to be conducted 90 degrees to the pull wire's axis.

Pull the wire 90 degrees to the axis quickly using the calibrated or some other calibrated weight measurement device, measure the amount of force it takes to trip the device. There will be some over pull in this test so factor this into the measurement. Once the device trips check to see how far the pull wire needs to be pulled to activate a trip. An easy way to take this measurement when pulling the wire with the scales attached is start with your arm out stretched and pull quickly towards you stopping when your arm is bent 90 degrees next to your side, this measurement is about 400-450mm. NOTE: the pulling speed of the test will have an effect on the test results. As the wire is moving the whole length, faster the pull the lower the test result due to the reduction of the static friction between the rope and guides. In an emergency situation, the device will not be pulled slowly so the test should replicate this. AS 4024.3610 state the force used to activate a trip must not exceed 70N (7Kg) and the amount of pull should not exceed 300mm. NOTE: ELECTRIC CONTROL PRODUCTS risk assessment allows a pull distance can be up to 450mm and a maximum of 200 N as found in AS3947.5.5 Electrical emergency stop device with mechanical latching function mechanical requirements test, AS4024.1604 allows these recommendations. Attention must be paid to the surrounding environment and if this distance may be achieved safely. The Ergonomics HB-59 standard gives an average human arm reach distance of 500mm so 450mm pull distance would be acceptable. If the problem is still present contact the supplier of the product for advice.

If Eyebolts or Pigtails are being used, then this could be a factor as they increase the Pull Wire friction and can give high readings. Obstructions or sharp radius bends increase friction and give high readings, the use of the roller guide (STG-200-RG-SS) is recommended. Incorrect compensation spring or the device is seized or not working correctly could be the under laying problem.

The pull parameters are also governed by the positions of the rope guides and the position of the set point of the pull rod. If the rope guides are further apart than 3m then the Nm of force to pull the wire 90 degrees will decrease but the overall pull out length will increase and this is reversed if the guides are closer than 3m. Adjust the pull rod set point position out by 5-10mm (105-110mm) for shorter pull out tripping distance. This may increase nuisance tripping if not using STL-10-V pull wire.







#### the force will be greater.

The reverse will happen if the guides are moved outwards. A maximum of 4m apart should be watched.

#### distance to trip will be shorter but the force will be greater.

The reverse will happen if the guides are moved outwards. A maximum of 4m apart should be watched.

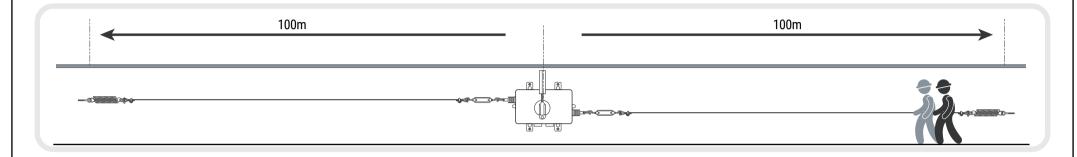
**NOTE:** After each activation tests are completed, visual check that the set position of the pull rods are as per installation instructions, if not readjust turnbuckle so the pull rods are at the set position before next test.

SYSTEM TESTING NOTE USING SAFE-T-TEST: TEST 1 "Axis Pull Wire Test" and Test 2 "90 Degree Pull Wire Test" are most efficiently run at the same time with two personnel walking the conveyor. A 200-metre pull wire system should take 15-20 minutes to test.

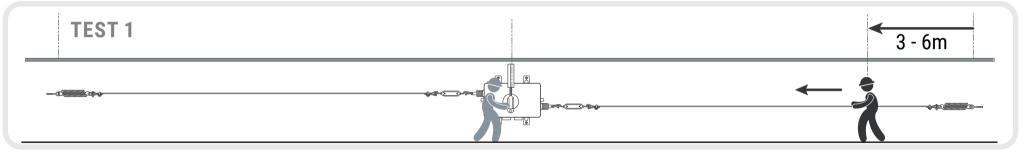
**Electric** Control

PRODUCTS

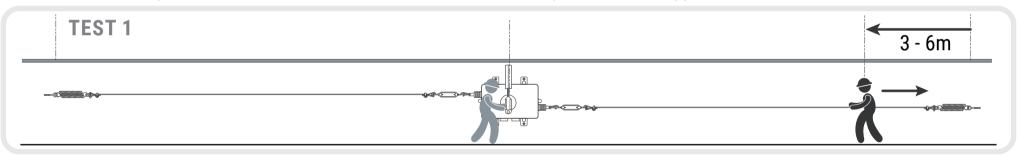
**NOTE:** After each activation tests are completed, visual check that the set position of the pull rods are as per installation instructions, if not readjust turnbuckle so the pull rods are at the set position before next test.



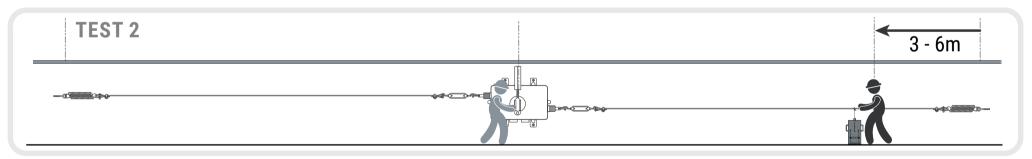
#### 1. One person walks to the lanyard device and the other person stands at the spring and initiates the Test 1.



#### **2.** Once the device trips it is reset then another Test 1 is initiated in the same place but in the opposite direction.

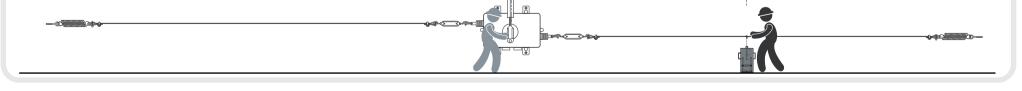


#### 3. Then Test 2 is initiated at the spring end,

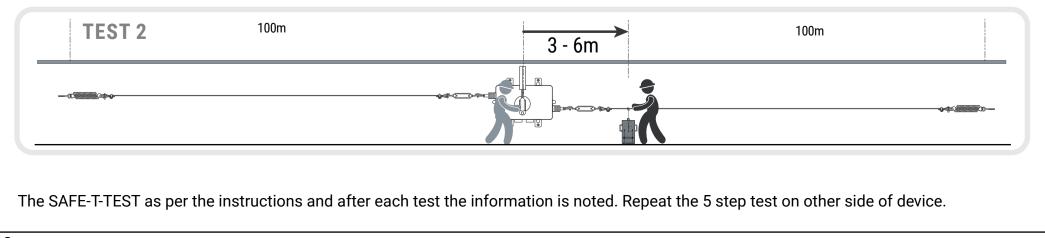


#### 4. At the pull wire system centre between the spring and device,

TEST 2 <sup>1</sup>	00m	50m	100m
	Π	1	



#### 5. And the device end.



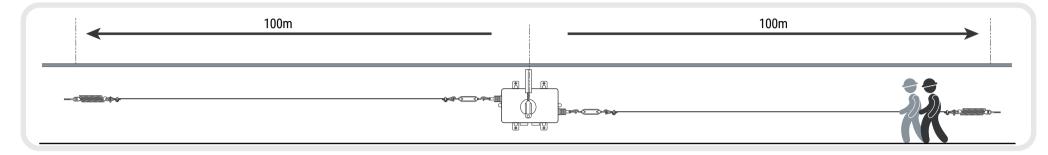
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SYSTEM TESTING NOTE USING SAFE-T-SCALE: Test 1 "Axis Pull Wire Test" and Test 2 "90 Degree Pull Wire Test" are most efficiently run at the same time with two personnel walking the conveyor. A 200 metre pull wire system should take 15-20 minutes to test.

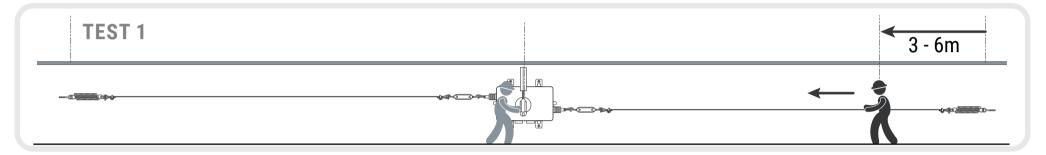
**Electric** Control

PRODUCTS

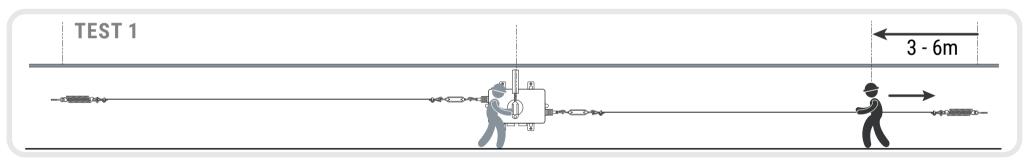
**NOTE:** After each activation tests are completed, visual check that the set position of the pull rods are as per installation instructions, if not readjust turnbuckle so the pull rods are at the set position before next test.



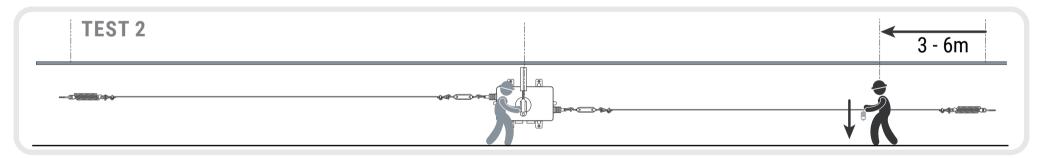
1. One person walks to the lanyard device and the other person stands at the spring and initiates the Test 1.



**2.** Once the device trips it is reset then another Test 1 is initiated in the same place but in the opposite direction.

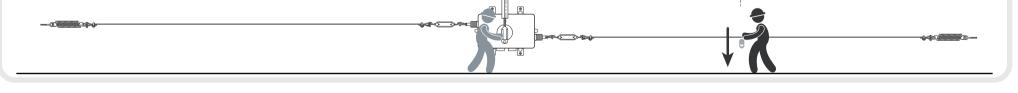


3. Then Test 2 is initiated at the spring end,

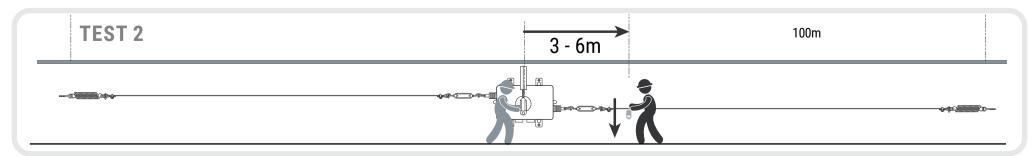


#### 4. At the pull wire system centre between the spring and device,

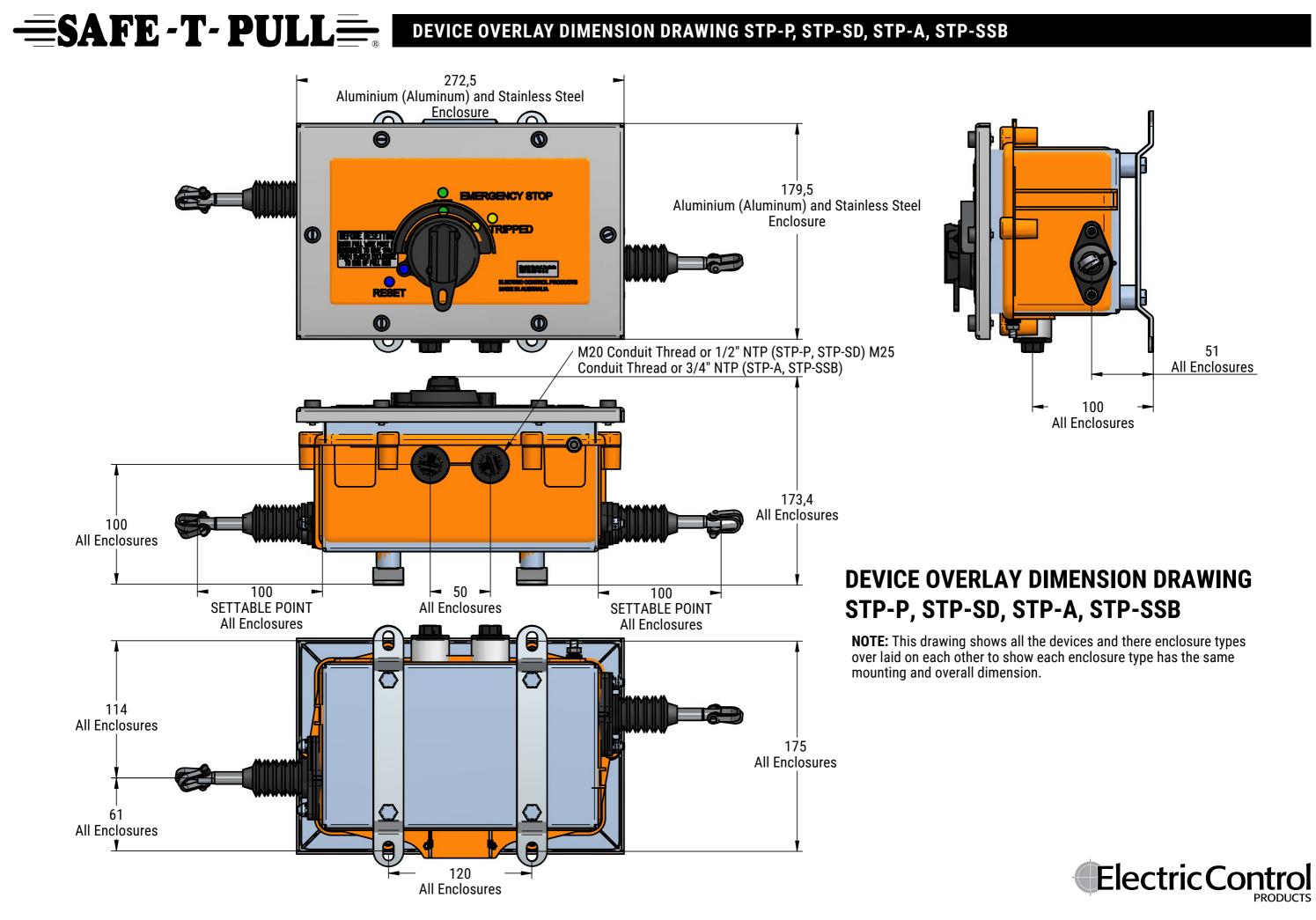
TEST 2	<b>5</b> 0m	100m
ſ		



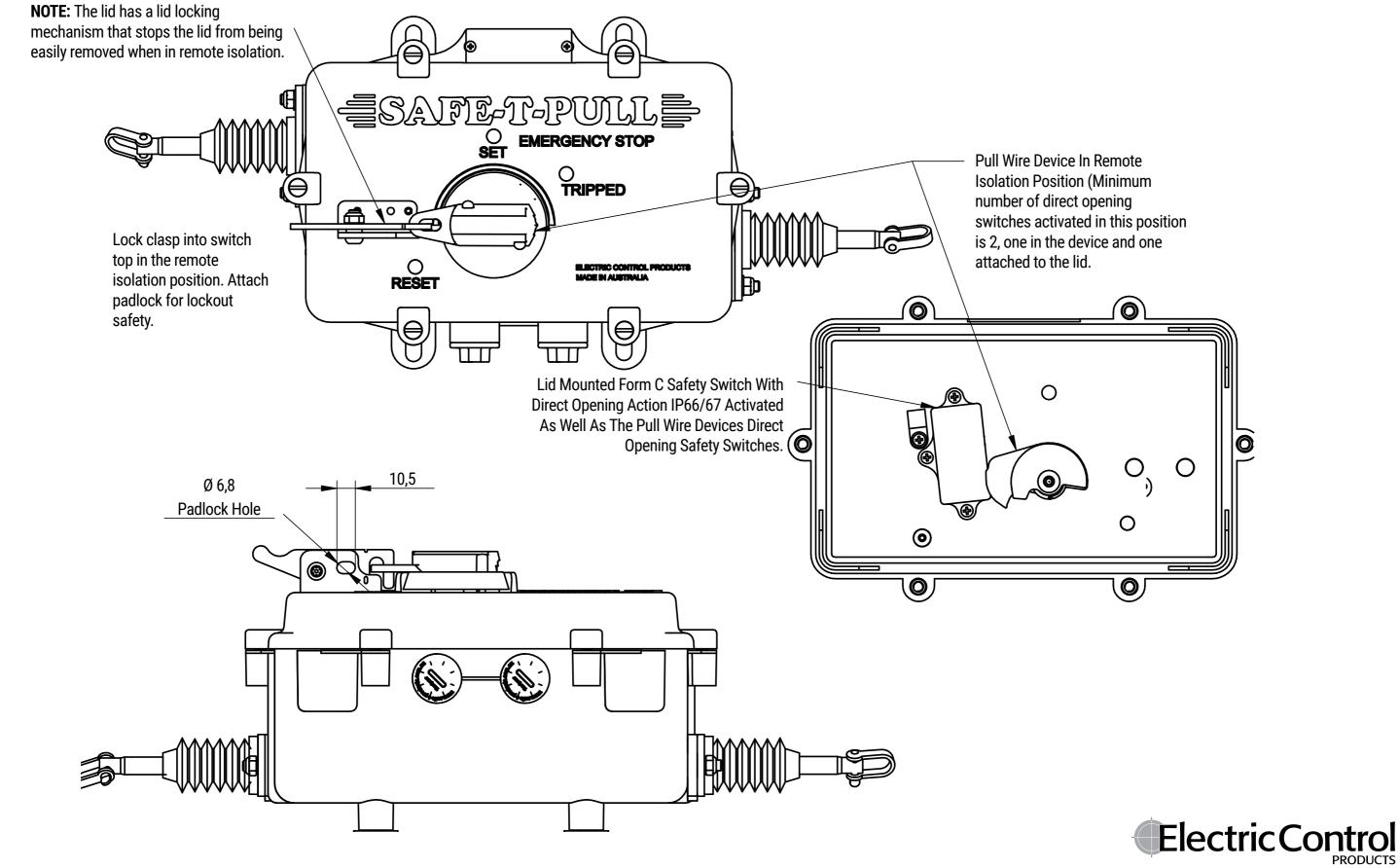
#### 5. And the device end.

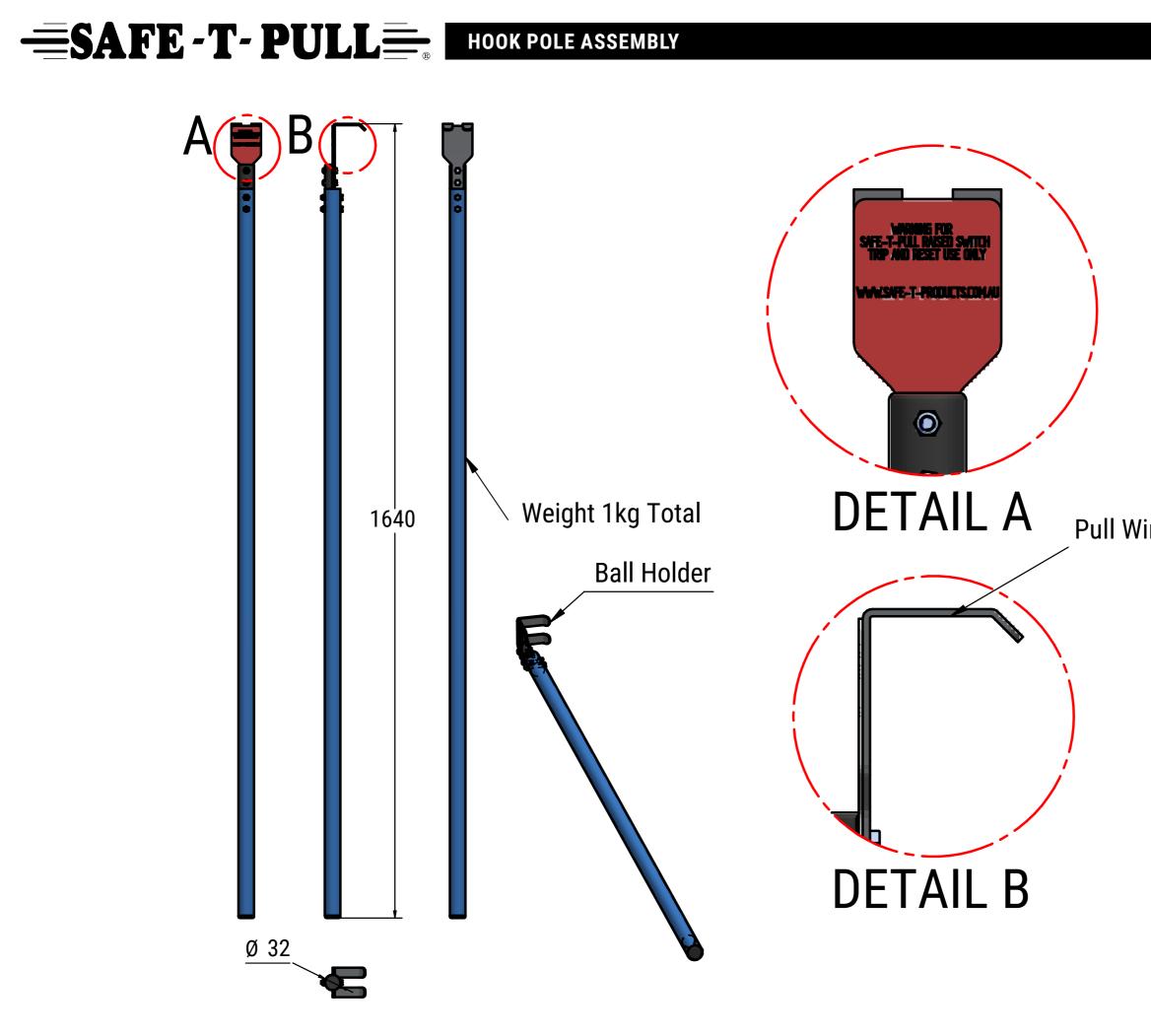


These test measurements are called out by the tester to the person at the device. The person at the device will reset the device and then document the measurements while the other person moves to the next test once one side is tested then this is repeated on the other side starting with test one and so forth.



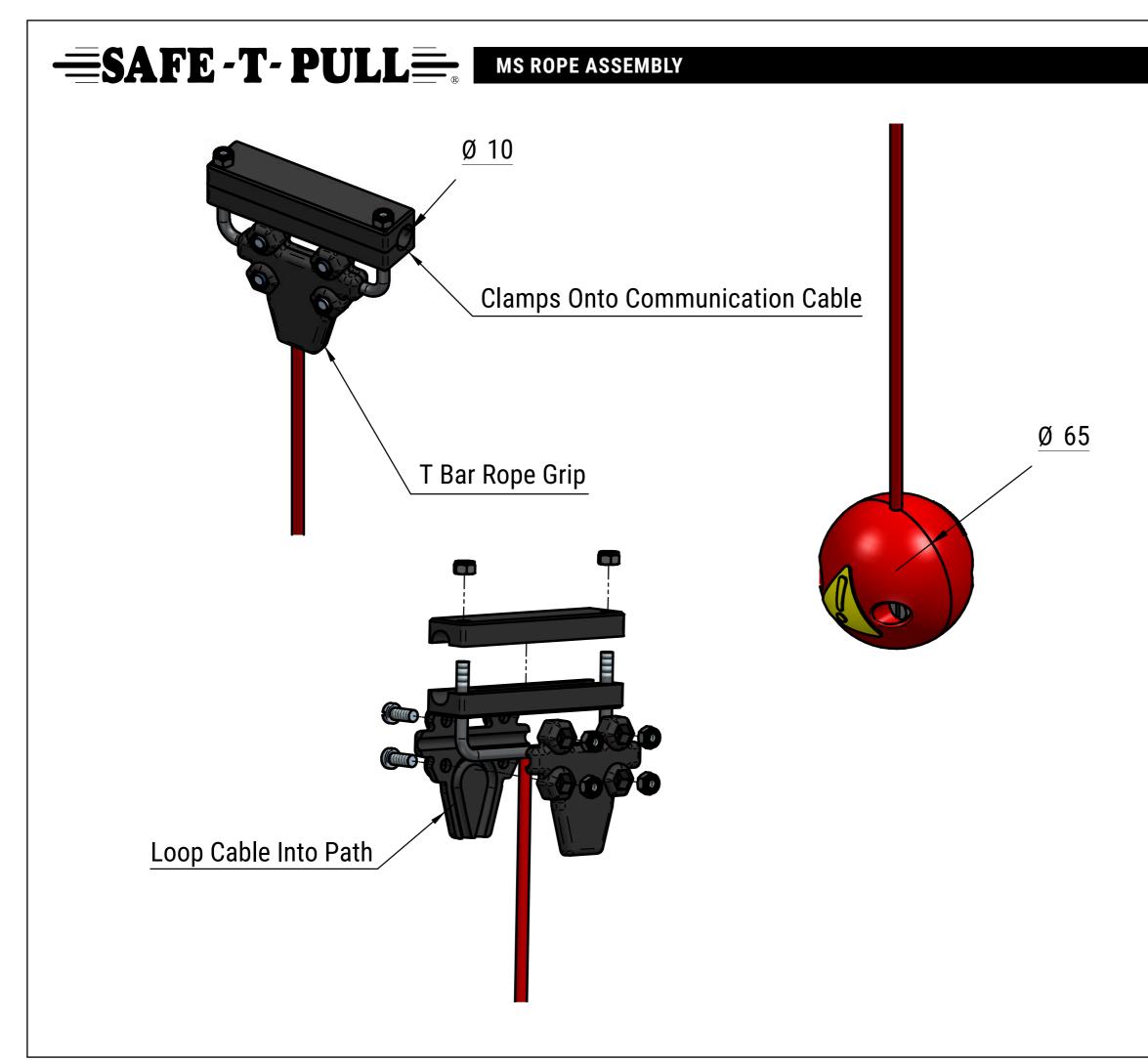
### **STP-P-2-RI REMOTE ISOLATION DEVICE**

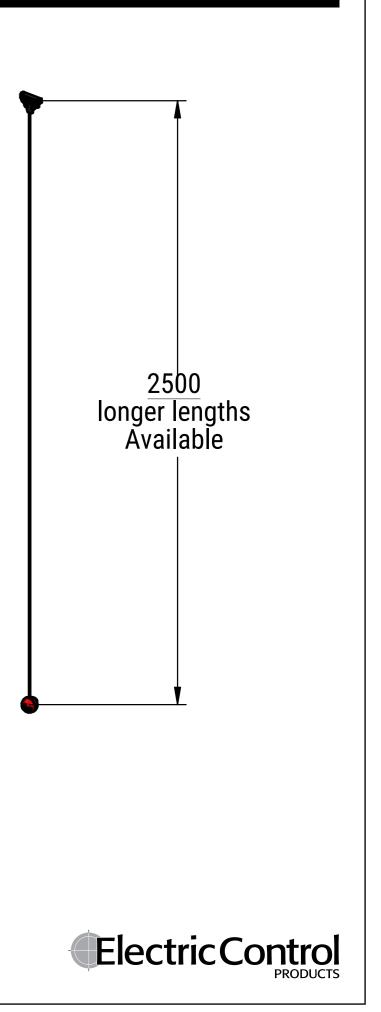




### Pull Wire Testing Hook

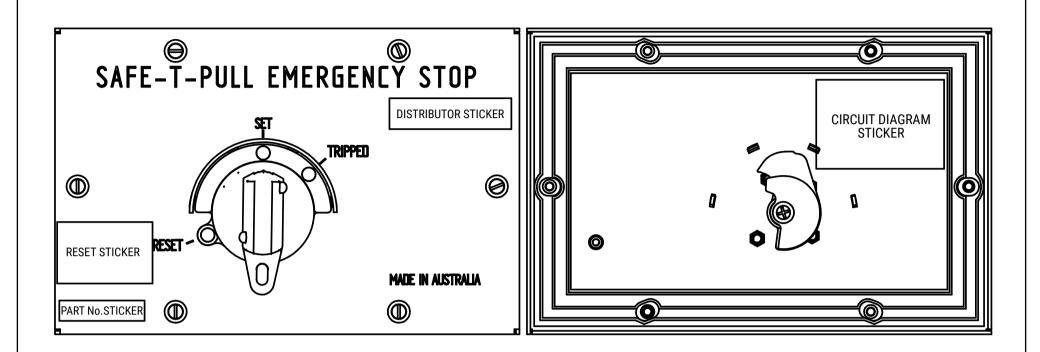




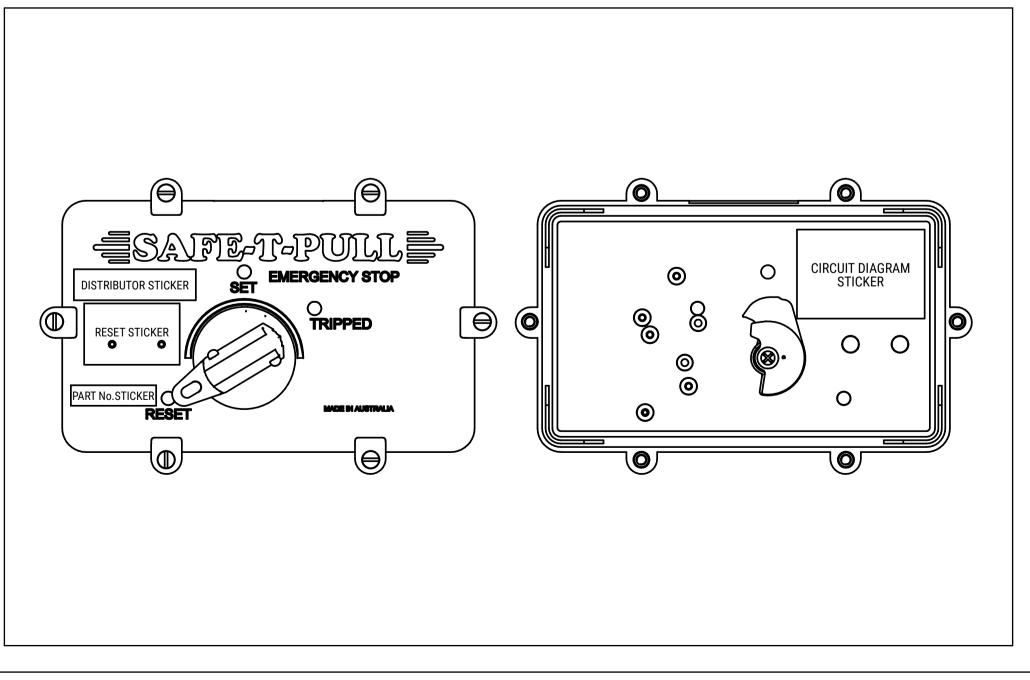


Electric Control

**REPLACEMENT LID ALLOCATION STICKERS SAFE-T-PULL STAINLESS STEEL** 

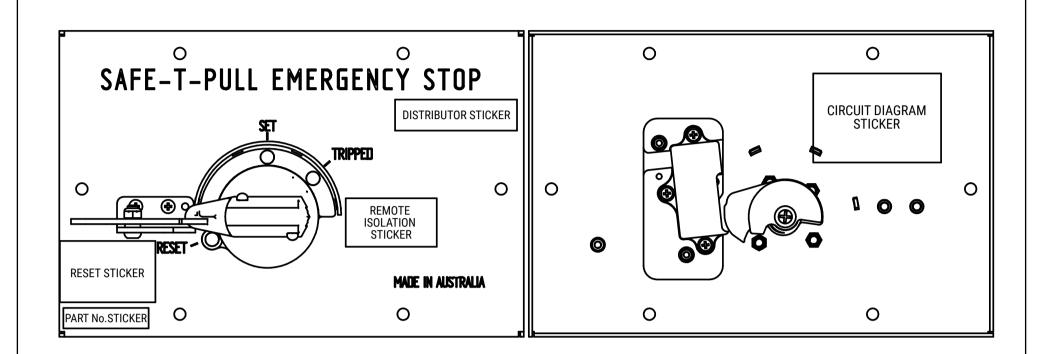


### **REPLACEMENT LID ALLOCATION STICKERS SAFE-T-PULL PC/PBT PLASTIC**

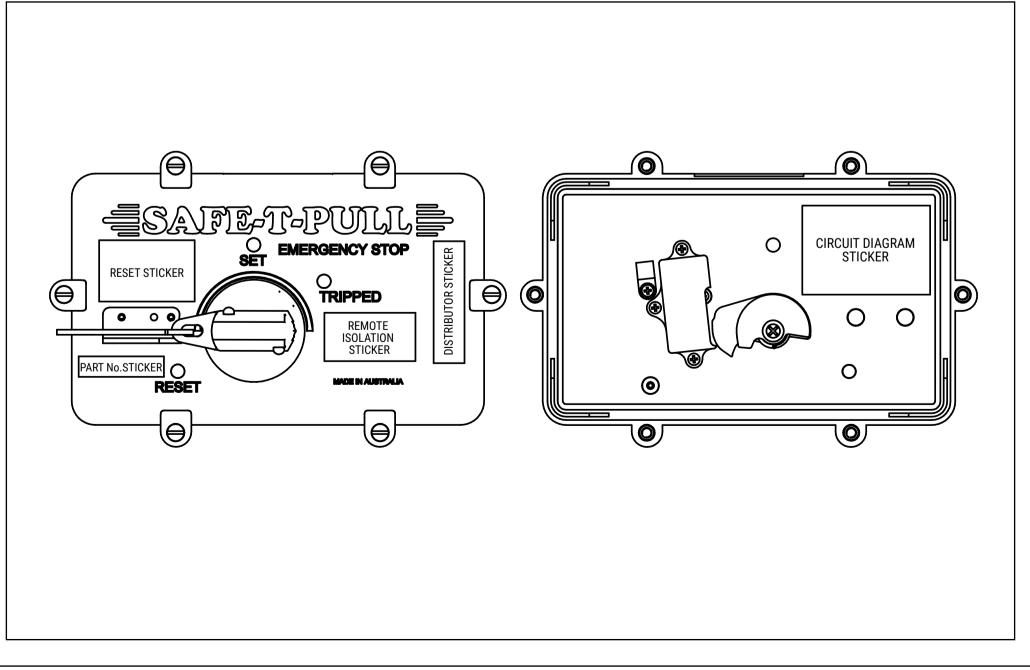


Electric Control

**REPLACEMENT LID ALLOCATION STICKERS SAFE-T-PULL STAINLESS STEEL REMOTE ISOLATION** 



### **REPLACEMENT LID ALLOCATION STICKERS SAFE-T-PULL PC/PBT PLASTIC REMOTE ISOLATION**



#### CONVEYOR NUMBER:

DEVICE 1 NUMBER:

DEVICE 2 NUMBER:

Tick box for Yes (OK) or Cross box for No (Check)

TEST 1: AXIS PULL WIRE TEST

#### WIRE MOVES FREELY ON AXIS

AWAY FROM DEVICE 1

AWAY FROM DEVICE 2

AWAY FROM DEVICE 2					
	TEST 2: 90	DEGREE PULL WIRE TEST			
DEVICE 1 END		MIDDLE	DEVICE 2	2 END	
	Nm	Nm		Nm	
	mm	mm		mm	
	GENERAL PULL	WIRE SYSTEM INFORMATION			
PULL WIRE NEEDED REPLACING					
PULL WIRE TERMINATION NEEDS FIXING					
PULL WIRE WIRING TERMINATION NEEDS FI	XING				
	GUIDE P	OSITION TOO CLOSE			
DEVICE 1 END Under 600mm		GENERAL < 3m		E 1 END 600mm	
	GUIDE	POSITION TOO FAR			
DEVICE 1 END over 1m		GENERAL > 4m		DEVICE 2 END over 1m	
DEFLECTIONS OVER 16 DEGREES					
STAIRCASE		ROLLER GUIDE USED			
STAIRCASE		ROLLER GUIDE USED			
PULL WIRE INSTAL	LATION	P	ULL WIRE BEHIND STRUCT	TURE	
PULL WIRE WEAR	NOTES	Behind Guard	Please Tick Boxes under heading Behind Objects	Not Accessible	
HIGH FRICTION POINTS		Denna Guara	Dennia Objectis	NOT ACCESSIBLE	
WIRE STUCK					
PIGTAILS					
WIRE MOUNTED LOW < 900mm					
WIRE MOUNTED HIGH > 1500mm					
GUIDE REPLACE					
PIG TAIL - Conveyor Position No					
EYE BOLT - Conveyor Position No					

EYE BOLT - Conveyor	Position No
ROPE GUIDE - Convey	or Position No
DEVICE REPLACEMENT	
DUST BOOT - Conveyo	or Position No
LID - Conveyor Positio	on No
GENERAL - Conveyor	Position No
NOTES:	