SAFE-T-RIP

Ex STATIC DISSIPATIVE ENCLOSURE

CE Conformity

Conveyor Belt Tear Detector

All socket kits come with different lengths of 2.4 mm ID x 3.2 mm OD clear PVC coated wire rope (see page 2), M5 Eye Bolt, M5 Turnbuckle, 3 Rope Grips, M10 Stainless Steel Pig Tail and Socket attachment.

Some kits come with different rope guides (see page 2 and 4).

Illustration only, actual product may differ.

Tested to **MDG 3608 7.2.2.1**

The SAFE-T-RIP Ex Static Dissipation heavy duty Belt Rip Detector is magnetically or mechanically operated, utilising the inherent reliability of Reed Switches or Silver Micro Switches. The Switches are fitted into a robust, non metallic Static Dissipative enclosure.

Various trip tensions can be achieved by simple external adjustment.

An external santoprene rubber boot assists in excluding dust and dirt from the plug and magnetic socket assembly.

FEATURES

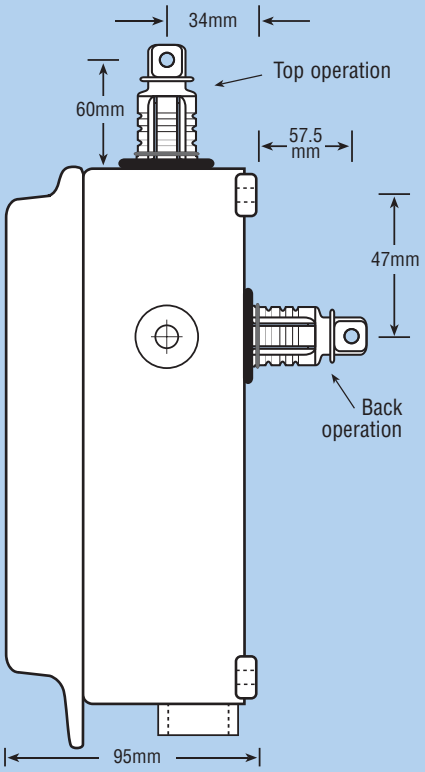
- Safe-T-Rip SD is a simple apparatus (IEC/AS 60079.11.2011) and has a surface resistivity well below the 1GΩ allowed in these standards. Used with an intrinsically safe circuit, this product can be used in Ex Zones.
- Fitment of any intrinsically safe 2 or 3 wire bus system compliant.
- All external fixings etc. are 316 Stainless Steel.
- UV stable, flame retardant (V0 rated) PBT/PC non corosive enclosure to IP67.
- Dust boot on socket assembly.
- Socket can be mounted on either side, top or rear of enclosure. (as per Cat No.)
- Two 20mm conduit entries.
- Label attachment lug on lid.
- Switches pre-wired to terminals.

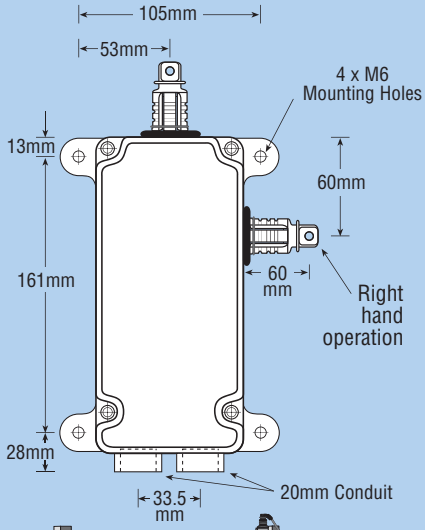
Enclosure Specifications

- Dissipative <IE9 ohm surface restivity.
- High Impact PBT/PC Non Corrosive Material.
- UV Stable.
- Flame Retardent ASTM:UL94-V0 (1.6mm) Resist Splash and Spillage of Most Hydrocarbon Solvents, Mild Acids and Strong Alkali.

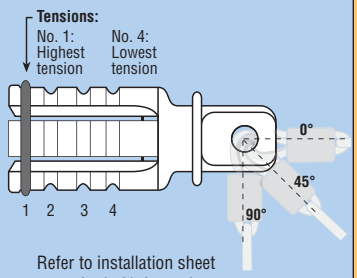
CONVEYOR BELT TEAR DETECTOR

DIMENSIONS and INSTALLATION

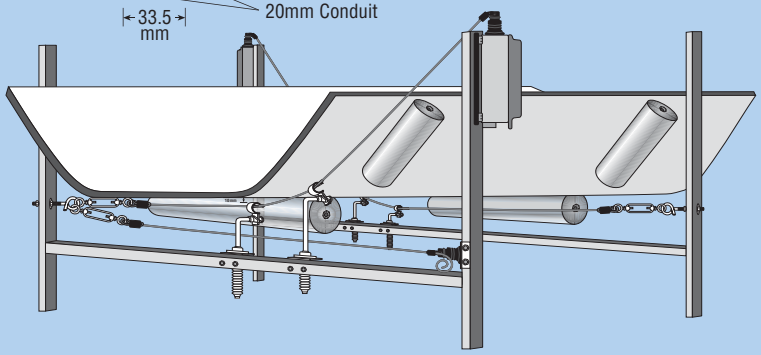




Move stainless steel spring clip for Socket detachment tensions.



Refer to installation sheet for kgf information.



See install instructions for more detail.

Socket Positions

	Add to CAT No.		Add to CAT No.
Right hand operation	-RH	Back operation	-BK
Left hand operation	-LH	Top end operation	-TP

Example: STR-SD-1 -RH

Variations

	Add to CAT No.
Stainless steel armoured cable entry glands 2 x M20	-ACGS
Tunnel rail mount terminals	-K

Example: STR-SD-1-RH -K

STR-SOCH Socket Kit with 3m PVC coated wire rope, including 1m tether wire with M5 Eye Bolt, M5 Turnbuckle and 3 x Rope Grips, M10 Pig Tail and STR-H200-SS

STR-SOCHS Socket Kit with 3m PVC coated wire rope, including 1m tether wire with M5 Eye Bolt, M5 Turnbuckle and 3 x Rope Grips, M10 Pig Tail and STR-HS200-SS

STR-SOCCG Socket Kit with 3m PVC coated wire rope, including 1m tether wire with M5 Eye Bolt, M5 Turnbuckle and 3 x Rope Grips, M10 Pig Tail and STR-G200-SS

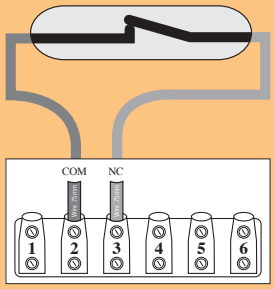
STR-SOCGS Socket Kit with 3m PVC coated wire rope, including 1m tether wire with M5 Eye Bolt, M5 Turnbuckle and 3 x Rope Grips, M10 Pig Tail and STR-GS200-SS

STR-SOC Socket Kit with 3m PVC coated wire rope, including 1m tether wire with M5 Eye Bolt, M5 Turnbuckle and 3 x Rope Grips.

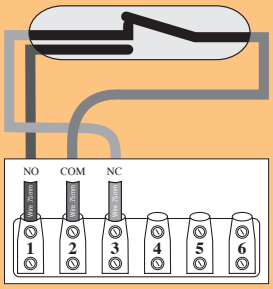
NOTE: Extra wire add -4 (4 m of wire plus 1 m tether) -5 (5 m of wire plus 1 m tether) up to -10

Switches shown with Socket attached
See "Important Notice" on page 3 for wiring rules

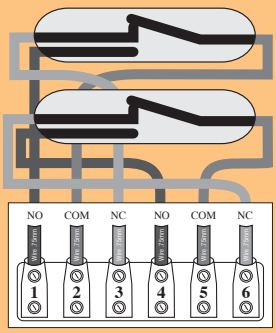
STR - 1



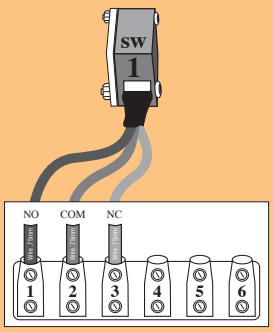
STR - 2



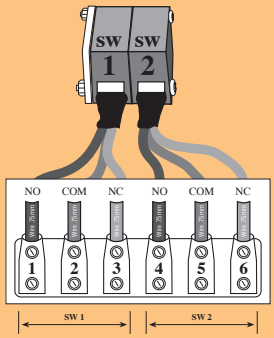
STR - 3



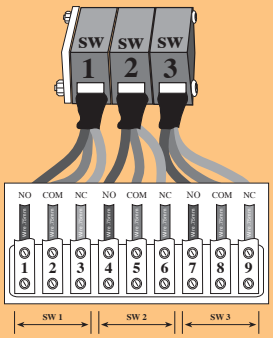
STR - 4



STR - 5



STR - 6



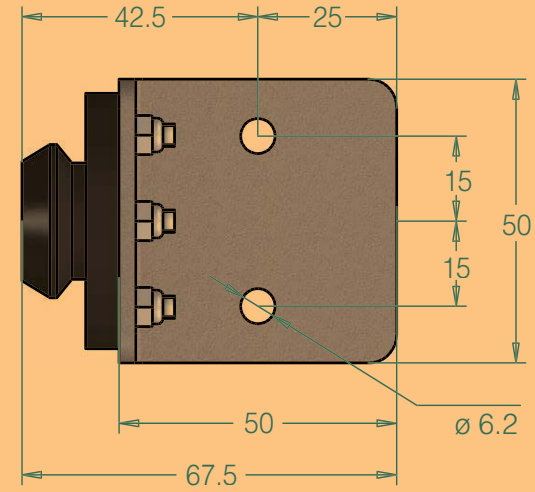
TECHNICAL SPECIFICATIONS

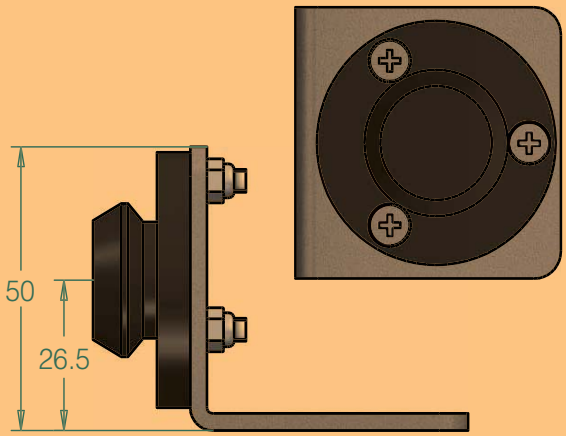
STR-1 Electrical Characteristics		
Contact Form		A
Contact Material		Ru
Contact rating max	W / VA	10
Switching voltage max	VDC	200
	VAC	140
Switching current max	A	1
Carrying current max	A	1.2
Breakdown voltage min	VDC	240
Contact resistance max (Initial)	mΩ	100
Insulation resistance min	Ω	10^{10}

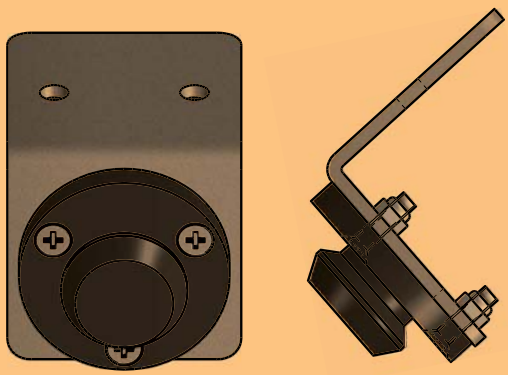
Environmental Characteristics		
Operating temperature	°C	-60 to +155
Vibration (50-2000 Hz)	g	20
Shock (1/2 sin 11 ms)	g	100

STR-2 and STR-3 Electrical Characteristics		
Contact Form		C
Contact Material		Rh
Contact rating max	W / VA	5
Switching voltage max	VDC	175
	VAC	120
Switching current max	A	0.25
Carrying current max	A	1.5
Breakdown voltage min	VDC	200
Contact resistance max (Initial)	mΩ	100
Insulation resistance min	Ω	10^{10}

Environmental Characteristics		
Operating temperature	°C	-40 to +125
Vibration (50-2000 Hz)	g	30
Shock (1/2 sin 11 ms)	g	50







Part No. STR-SOC-SS-SP

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 DC
Operational current	1,5 A	0.5 Amp DC
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	——	
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)

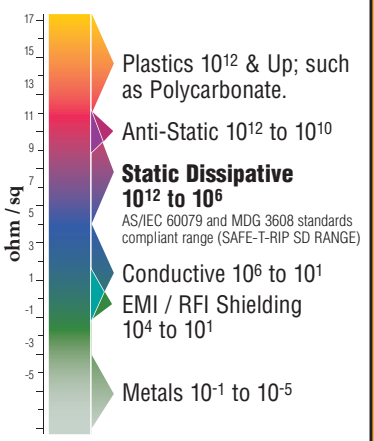
IMPORTANT NOTICE:

IEC 60947-5-1 2016
AS 60947-5-1 2015
Clause K.7.1.4.6.1
Form C or Form Za

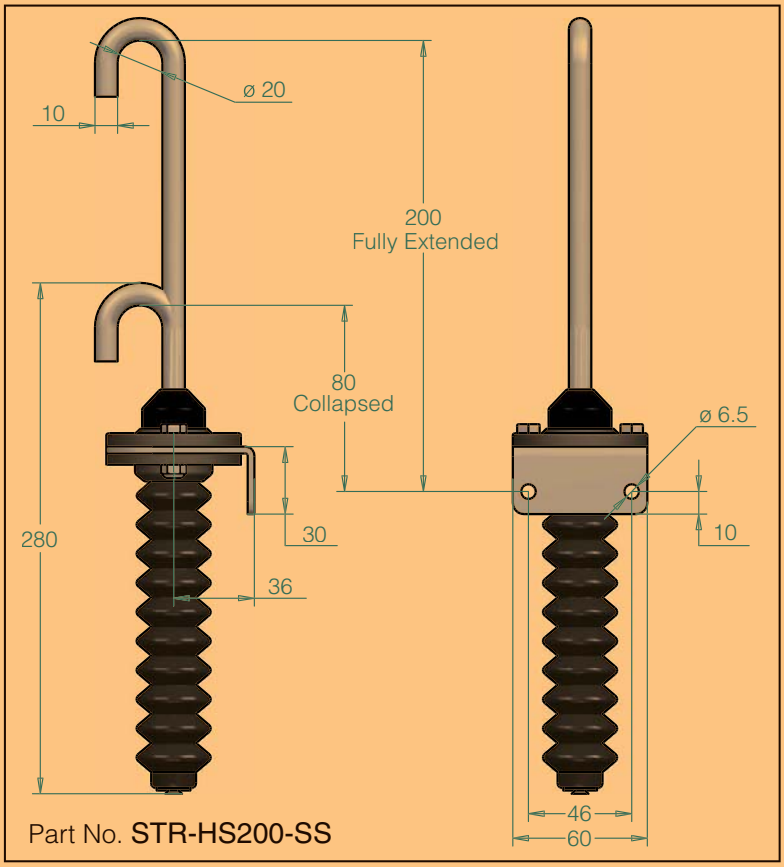
Form C or Form Za direct opening action change over contact elements.

Only one contact element (Make or Break) in each switch shall be used.

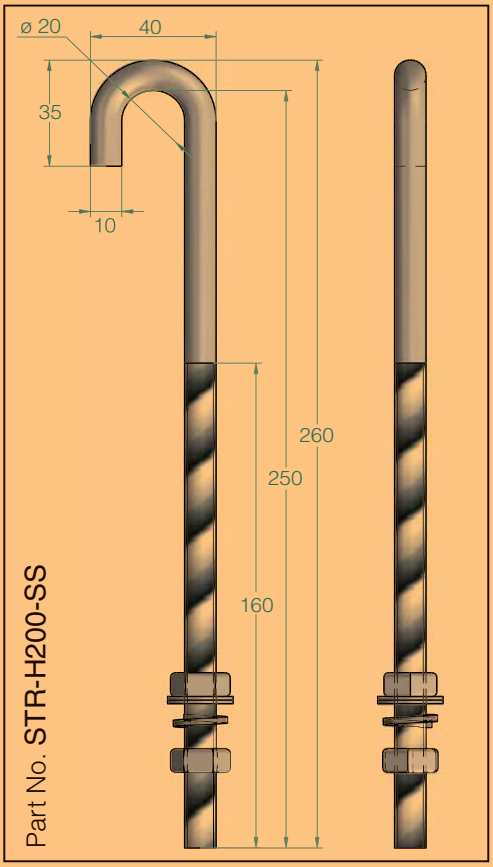
SURFACE RESISTIVITY



SAFE-T-RIP



Part No. **STR-HS200-SS**



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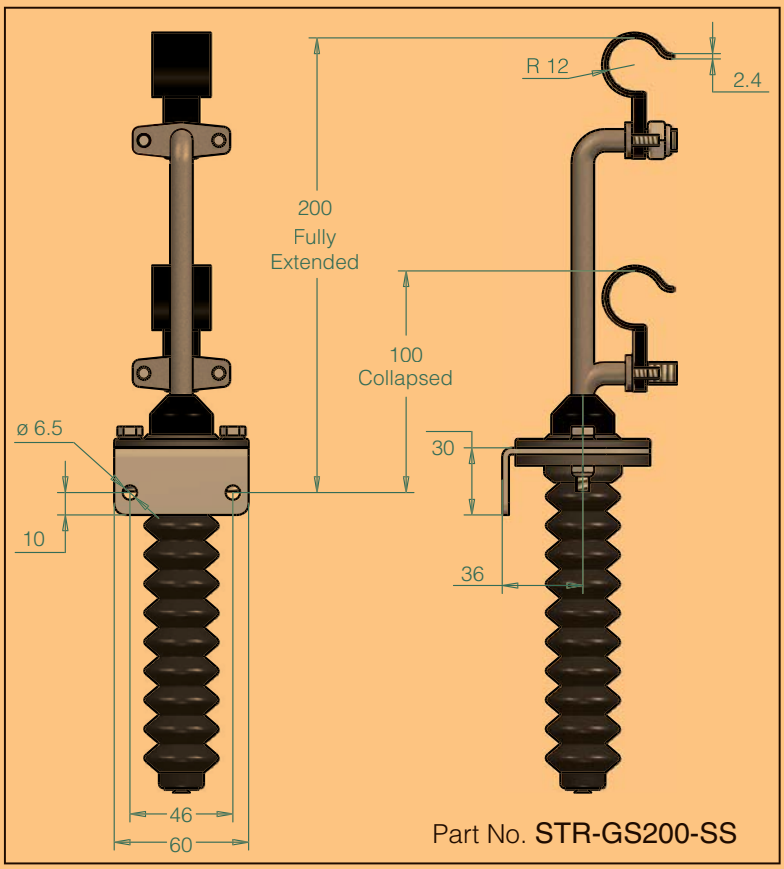
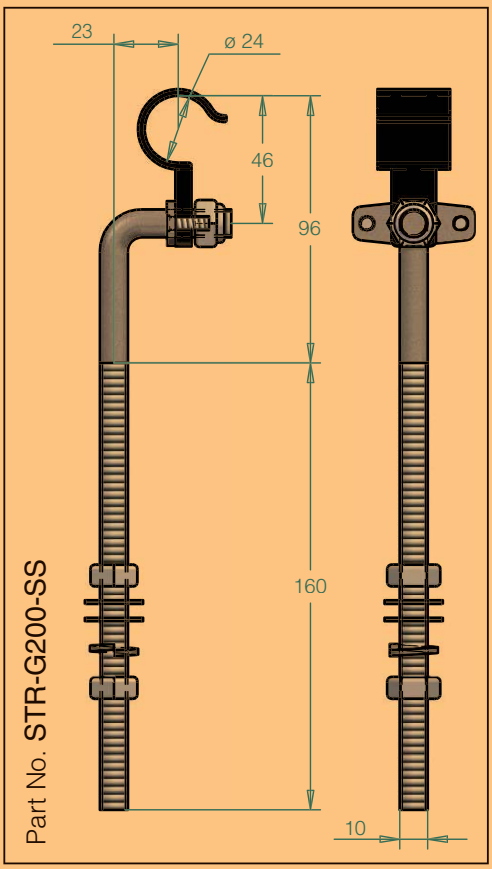


Part No. **STR-GS200-SS**



Part No. **STR-G200-SS**

Manufactured in Australia by:

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Western Australia 6090

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Electric Control PRODUCTS

www.safe-t-products.com.au

Sold by:

PUB. No. STR DEL: CB003 12/19

CONVEYOR BELT TEAR DETECTOR