

Conveyor Belt Tear



AVAILABLE FROM
NEPEAN ELECTRONICS

NEPEAN Power is a proven leader in the supply and manufacture of quality engineered solutions, products and technologies. Established in 1994, through the commitment of our dedicated team we have become a supplier of choice.

Features and Benefits

The Nepean Conveyor Belt Tear is a heavy duty Belt Rip Detection System. Operated magnetically utilising the innate reliability of Reed Switches. Used to detect a belt rip in an early state to prevent further damage of the conveyor belt and structure, resulting in higher availability of the conveyor belt and reduce replacement costs.

Various trip tensions are achievable by a simple external adjustment.

NEPEAN Advantages

- Socket can be mounted on either side, top or rear of enclosure
- 316 2mm electro polished stainless steel enclosure to IP67
- Switches pre-wired to terminals
- All external fixings 316 Stainless Steel
- Dust boot on socket assembly (to exclude dust and dirt from the plug and magnetic socket assembly).
- 2 x 20mm conduit entries
- Screw cup fittings for lid, to prevent screwdriver slip

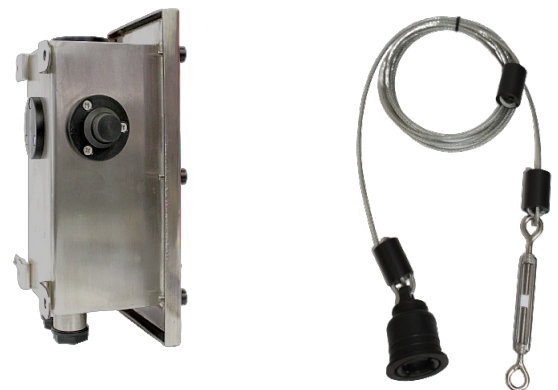
Technical Specifications

STR-1 Electrical Characteristics

Contact Form		N/O
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



Ordering Information

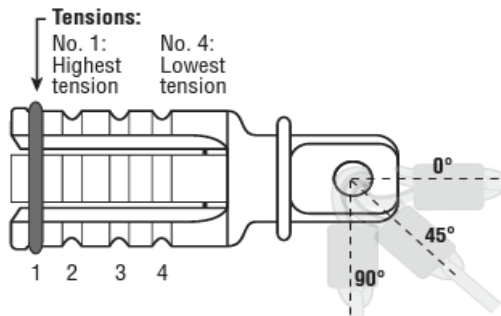
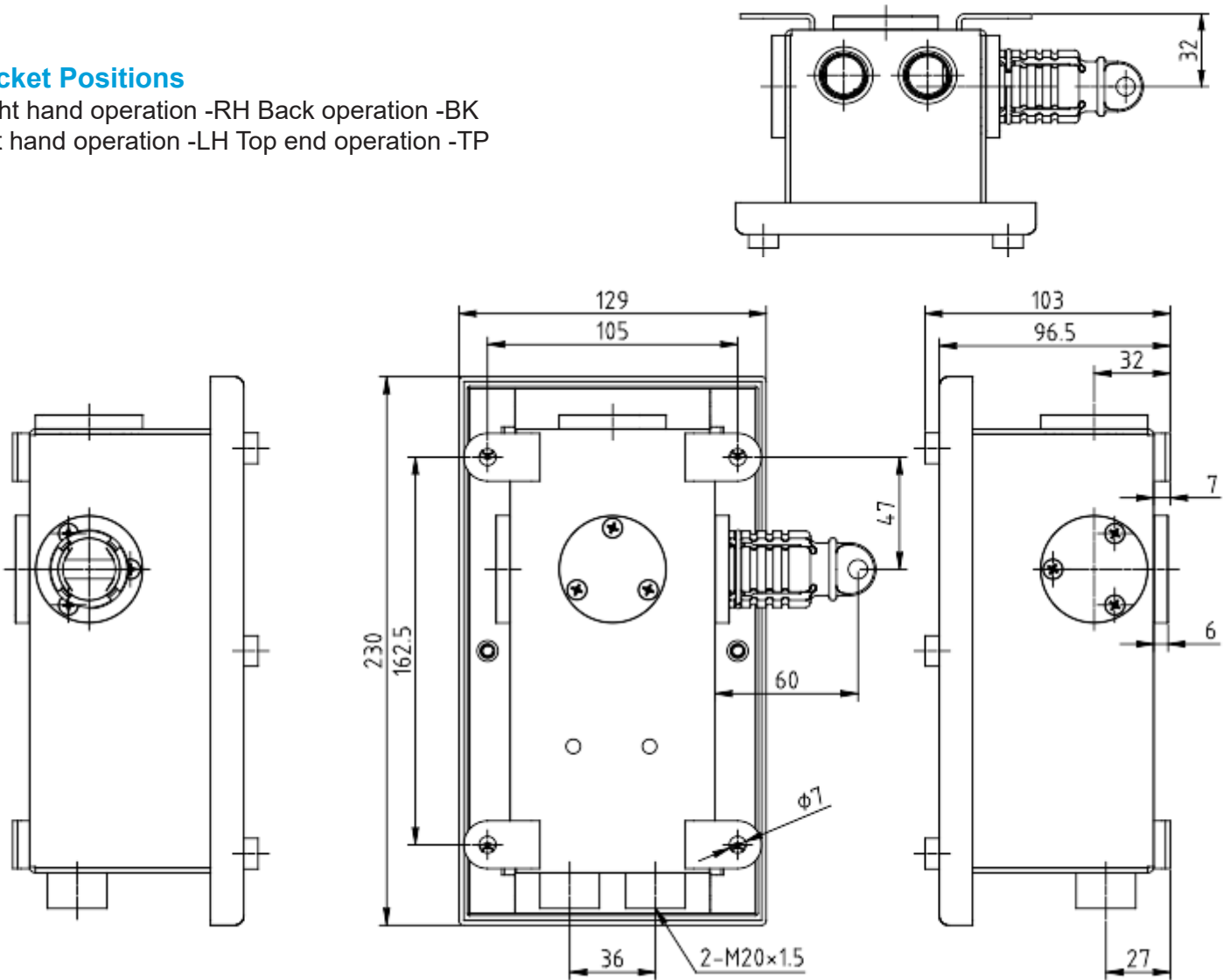
Part Number	Description
BT-SS-ST	Belt Tear SS Multi

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Diagram

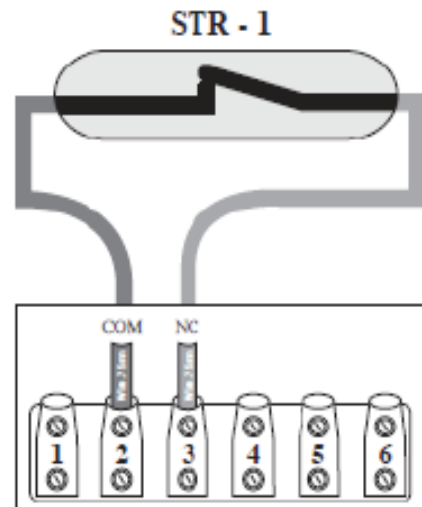
Socket Positions

Right hand operation -RH Back operation -BK
 Left hand operation -LH Top end operation -TP

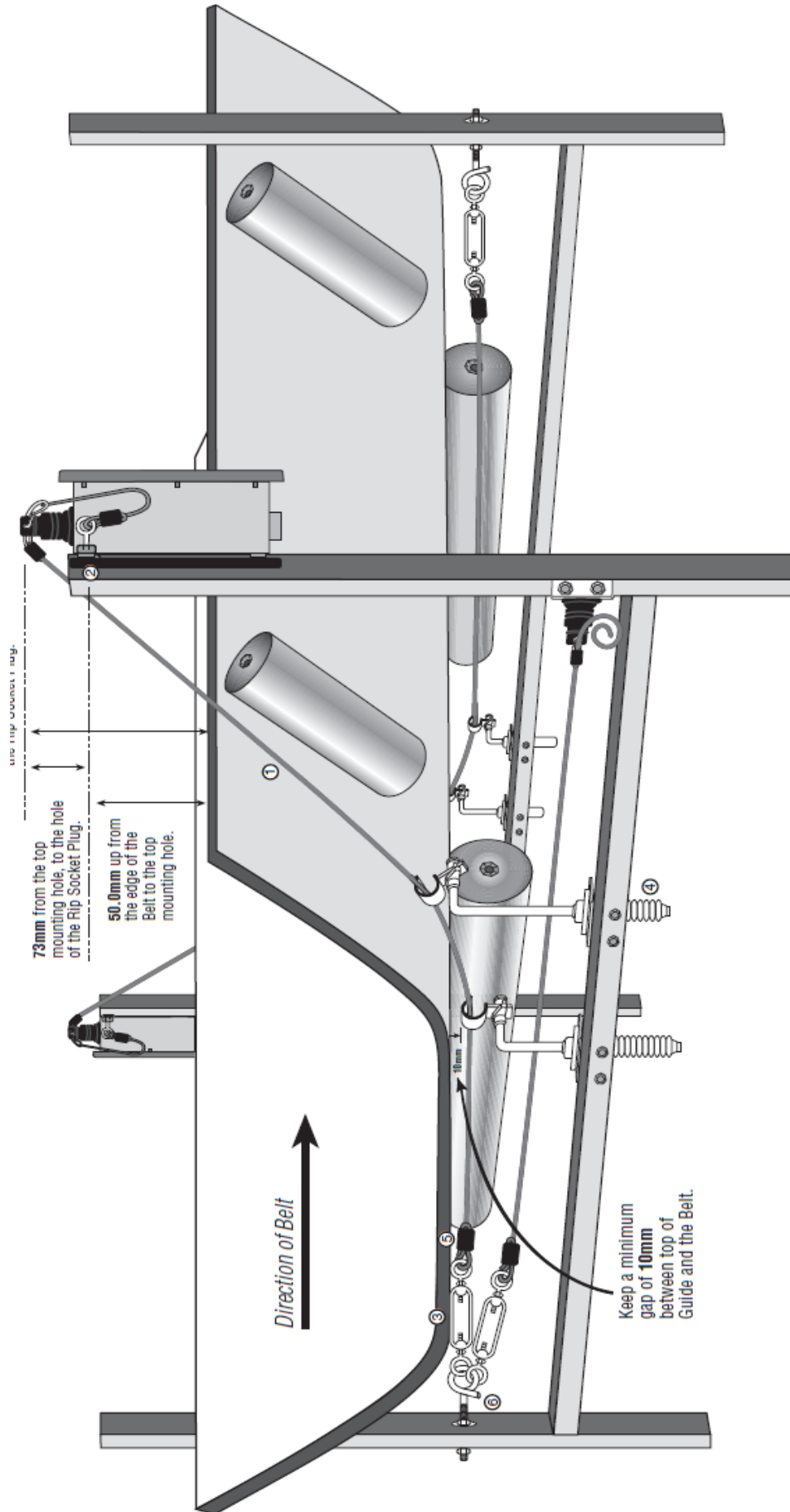


The kilograms of force (kgs) to disconnect the socket will vary due to installation type. The information listed below is using a constant force applied and is on a guide.

Tension No:	0° - 45°	45° - 90°
1	40 kgf	6.5 kgf
2	16 kgf	4 kgf
3	16 kgf	3 kgf
4	8 kgf	2.5 kgf

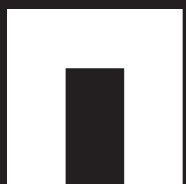


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- ① Different lengths of 2.4 mm ID x 3.2 mm OD PVC coated Wire Rope..
- ② M5 Eye Bolt.
- ③ M5 Turnbuckle.
- ④ Different versions of Rope Guides with each part number.
- ⑤ 3 x Rope Grips.
- ⑥ Pig Tail.

Belt Rip Switch Installation Position:
 Every feed point, every end roller, and with overlaid conveyors, every 500 metres or at any problem point.



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