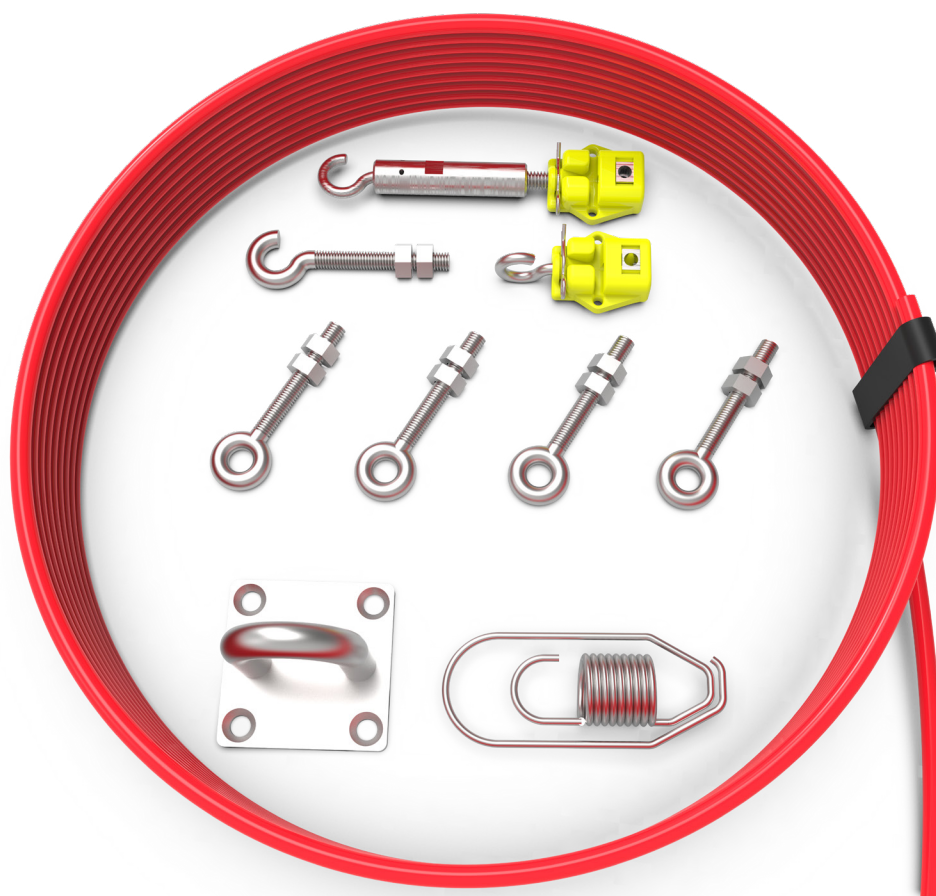




Installation Instruction for
Safeline SL4 Tensioning Kit



Operating Instructions: SafeLine SL4

Description

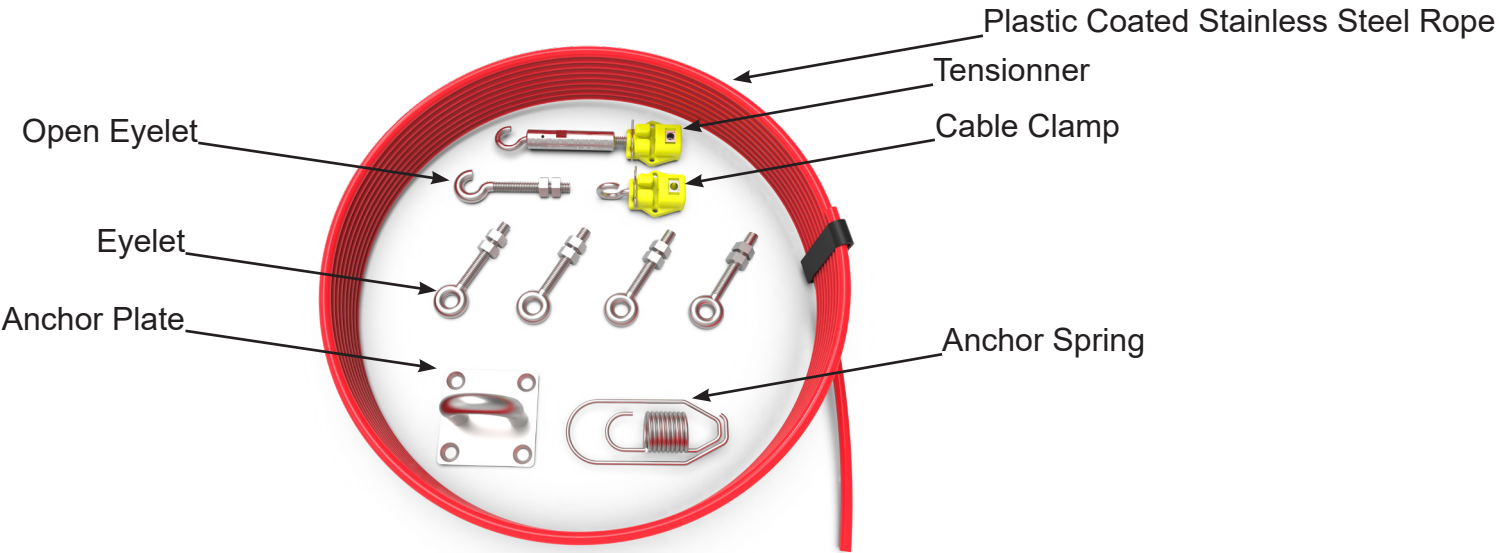
The SafeLine 4 Tensioning Kit consists of 5 meter to 75 meter rope, tensioner, eyelets, open eyelet, anchor spring, anchor hook and cable clamps.

The Tensioning Kit is designed to guard up to 75 meters of a conveyor or area that cannot be guarded by physical guards in conjunction with the SL4 grabwire.

Parts

Make sure all parts are included within the package.

The table below will depict how many of each part should be with the different lengths of cable.



| Description | Rope | Tensionner | Eyelet | Open Eyelet | Anchor Spring | Anchor Plate | Cable Clamp |
|--------------------------|-----------|------------|--------|-------------|---------------|--------------|-------------|
| SL4 Installation Kit 5M | 5 Meters | 1 | 2 | 1 | 1 | 1 | 1 |
| SL4 Installation Kit 10M | 10 Meters | 1 | 4 | 1 | 1 | 1 | 1 |
| SL4 Installation Kit 15M | 15 Meters | 1 | 6 | 1 | 1 | 1 | 1 |
| SL4 Installation Kit 20M | 20 Meters | 1 | 8 | 1 | 1 | 1 | 1 |
| SL4 Installation Kit 30M | 30 Meters | 1 | 12 | 1 | 1 | 1 | 1 |
| SL4 Installation Kit 50M | 50 Meters | 1 | 20 | 1 | 1 | 1 | 1 |
| SL4 Installation Kit 75M | 75 Meters | 1 | 30 | 1 | 1 | 1 | 1 |

Assembly

When assembling the SL4 Tensioning Kit the user must ensure all rope runs are clear and the tension screens and SL4 can be seen clearly.

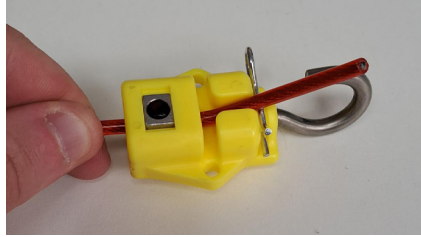
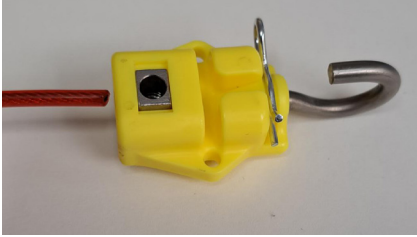
The user needs to ensure all Eyebolts, Springs and Anchor plates are mounted securely in their final operating position before connecting the Rope.

1 Cable Clamp is supplied with each SL4 Tensioning kit and is to be used at the end of the rope run to connect to either an Anchor Plate or Anchor Spring which is connected to an Open Eyelet.

The rope is installed into the Cable Clamp as follows:

Assembly

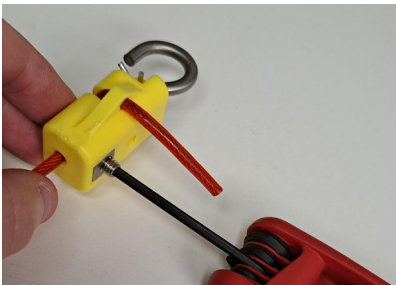
1. The Rope is pushed through the base of the Cable Clamp until it exits the middle part of the clamp.



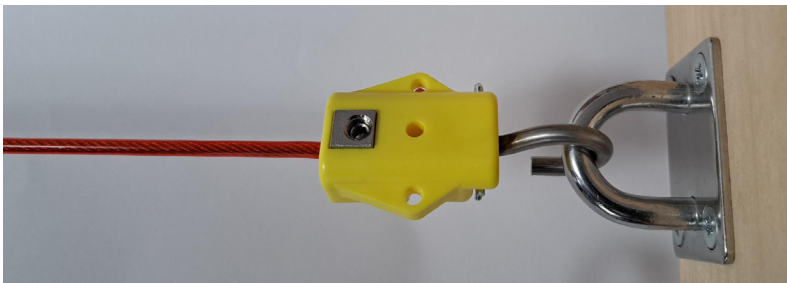
2. The rope is then bent either left or right into one of the wing holes, it is then pulled through tight (recommended to use pliers).



3. Once step 1 & 2 have been completed the user can now use a 3mm allen key to screw the metal fixing into the cable and secure it in place.

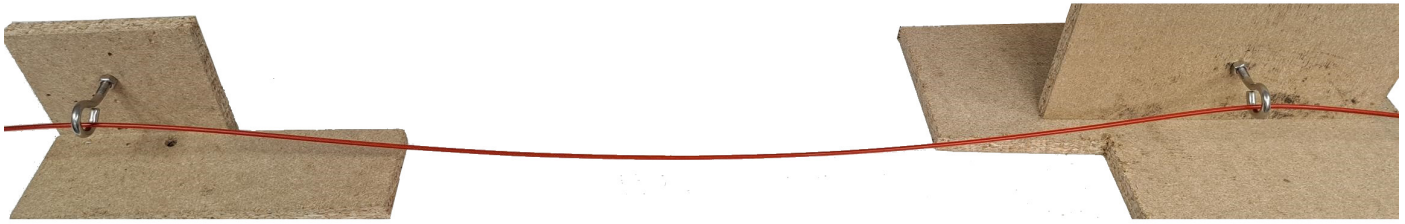


4. From this point the cable clamp can be attached to the end of the area that requires guarding by either, an anchor hook and spring or an anchor plate.



Assembly

5. The cable is required to pass through an eyelet every 2.5m at most, the rope is required to be pulled tight ready for fixing onto the SL4.



6. The rope is now attached to the cable clamp attached to the tensioner.



7. The tensioner hook can now be placed onto the SL4 ready for tensioning.



8. The nut at the base of the tensioner needs to be unscrewed to allow the tensioner to be rotated freely. Now whilst looking at the tension screens on the SL4, turn the tensioner until the red line meets the middle of the tension screen.



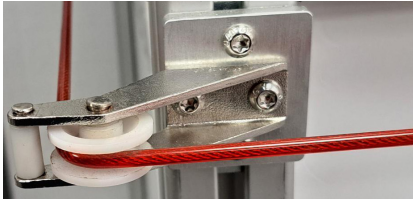
Tensioner Nut

Twistable Part of Tensioner

Assembly

9. The SL4 will now be able to run by moving the blue reset switch into the “ON” position.

Corner brackets are available as an added extra if the customer wishes, please speak to a Mechan sales representative for a price.



Mounting

Use M5 or #10-32 bolts to mount the sensor to the frame of the machine.

Figure 1 - Typical Mounting –Safeline™ 4 Cable Pull Switch

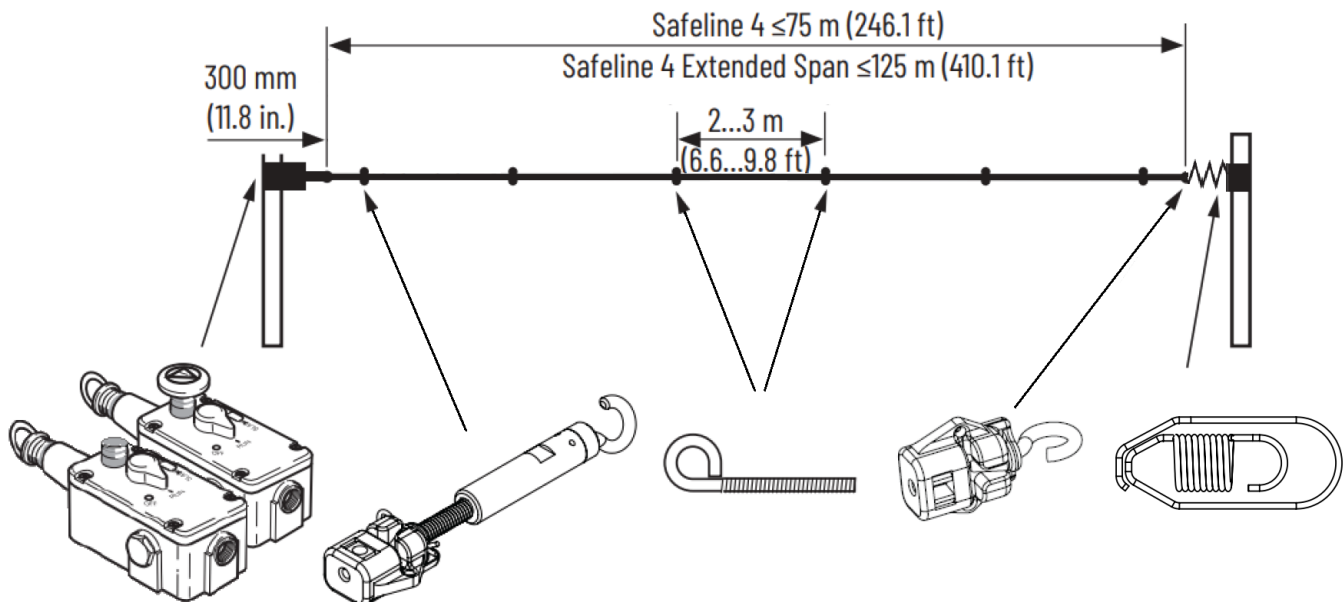
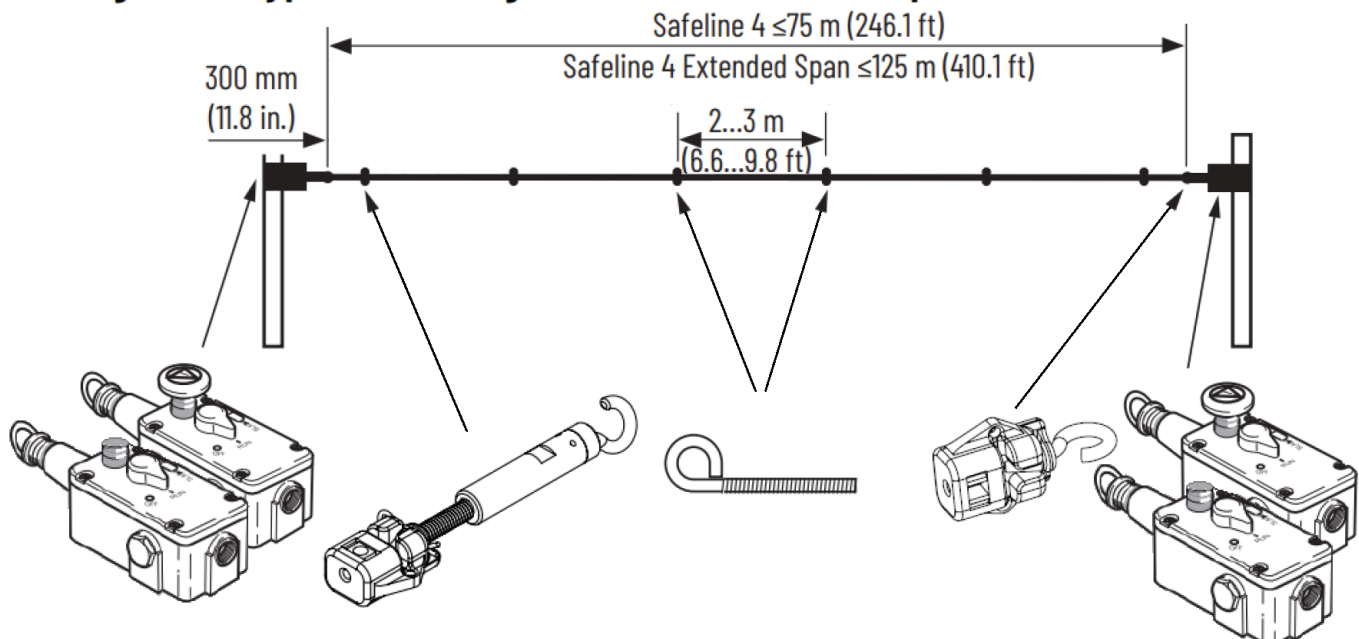
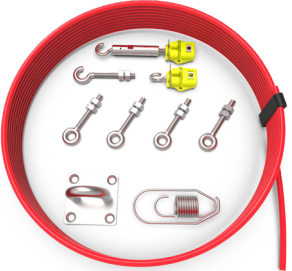


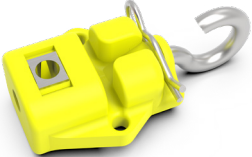



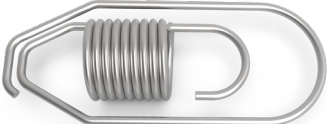



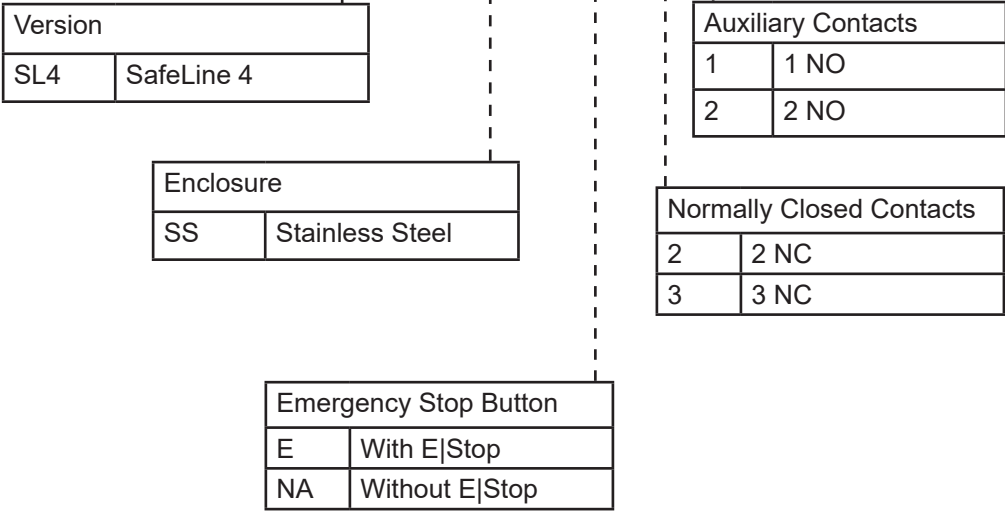
Figure 2 - Typical Mounting –Safeline 4 Extended Span Cable Pull Switch



Accessories

| Description | | Material | Part Number |
|---|--------------------------------------|--|-------------|
|  | SL4 installation Kit - 5m (16.4 ft) | Polypropylene Plastic 316 Stainless Steel | 314.010 |
| | SL4 installation Kit - 10m (32.8 ft) | | 314.011 |
| | SL4 installation Kit - 15m (49.2 ft) | | 314.012 |
| | SL4 installation Kit - 20m (65.6 ft) | | 314.013 |
| | SL4 installation Kit - 30m (98.4 ft) | | 314.014 |
| | SL4 installation Kit - 50m (164 ft) | | 314.015 |
| | SL4 installation Kit - 75m (246 ft) | | 314.016 |
|  | Rope Only - 5M | Polypropylene Covered Steel Cable | 314.017 |
| | Rope Only - 10M | | 314.018 |
| | Rope Only - 20M | | 314.019 |
| | Rope Only - 30M | | 314.020 |
| | Rope Only - 40M | | 314.021 |
| | Rope Only - 50M | | 314.022 |
| | Rope Only - 60M | | 314.023 |
| | Rope Only - 75M | | 314.024 |
|  | Tensioner | 316 Stainless Steel | 314.025 |
|  | Cable Clamp | Plastic & 316 Stainless Steel | 314.026 |
|  | Eyebolt M8 | 316 Stainless Steel | 314.027 |
|  | Anchor Plate | 316 Stainless Steel | 314.028 |
|  | Open Hook M8 | 316 Stainless Steel | 314.029 |
|  | Anchor Spring | 316 Stainless Steel | 314.030 |
|  | Corner Bracket | 316 Stainless Steel | 314.031 |

SL4-SS-E-31



SL4 Installation Kit **

| Connection Type | |
|-----------------|-------------------------------|
| 05M | SL4 installation Kit (16.4ft) |
| 10M | SL4 installation Kit (32.8ft) |
| 15M | SL4 installation Kit (49.2ft) |
| 20M | SL4 installation Kit (65.6ft) |
| 30M | SL4 installation Kit (98.4ft) |
| 50M | SL4 installation Kit (164ft) |
| 75M | SL4 installation Kit (246ft) |

Example 1: Safeline4 with E|Stop, 2NC & 2NO contacts

SL4-SS-E-22



Example 2: Safeline4 without E|Stop, 3NC & 1NO contacts

SL4-SS-31



Safety Assessment

A risk assessment should take place to establish that the specifications of the SafeLine 4 product are suitable for the application required. See Technical Specifications below or contact Mechan Controls for further information.

The products may only be installed, commissioned, operated and maintained by competent persons.

A competent person is a qualified and knowledgeable person who, because of their training, experience and current professional activity, has the specialist knowledge required. An understanding of European and International laws, directives and standards is recommended.

Maintenance

It is recommended to check the safe operation of the unit and look for signs of damage or excessive wear on a weekly basis. Damaged units should be replaced or returned to the manufacturer for repair where practical.

Disclaimer

In the interest of product development specifications are subject to change without notice. It is the responsibility of the user to ensure compliance with any acts or by-laws in place. All information regarding Mechan equipment is believed to be accurate at the time of printing. Responsibility cannot be accepted for errors or omissions.

Warranty

Warranty will be void if the following points are true:

- The product was not used for its intended purpose
- Damaged was caused by usage not stated in the manual
- Modifications have been made to the products (e.g exchanging components)
- Operating personnel are not suitably qualified

Warning!



The Mechan Controls SafeLine 4 Grab Wire system should not be manipulated or overridden.

Security screws are provided with every Mechan product.