

MMECHAN CONTROLS

Installation Instruction for **Safeline SL4 Tensioning Kit**



Operating Instructions: SafeLine SL4

Description

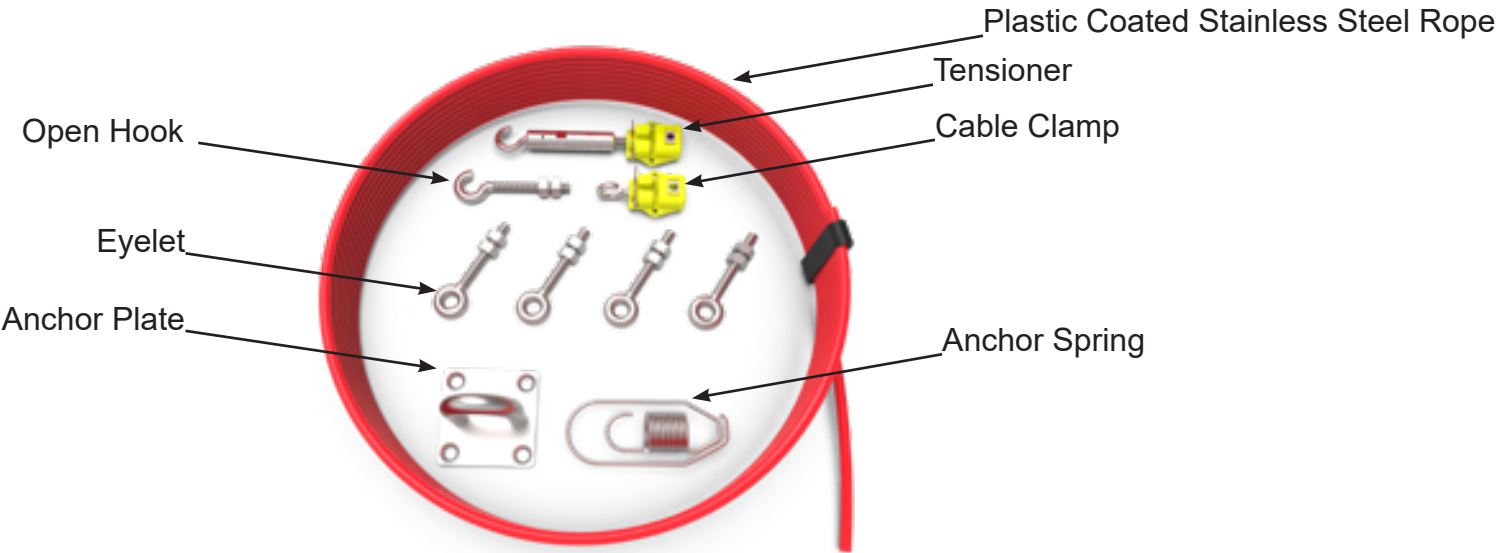
The SafeLine 4 Tensioning Kit consists of 5 meter to 75 meter rope, tensioner, eyelets, open hook, anchor spring, anchor plate and cable clamps.

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.

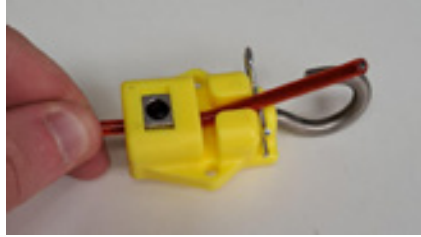
The user needs to ensure all Eyebolts, Springs, open hooks and Anchor plates are mounted securely in their final operating position before connecting the Rope.

1 Cable Clamp is supplied with each SL4 Tensioning kit and is to be used at the end of the rope run, this connects to an Anchor Spring which in turn connects to an Anchor Plate or Open Hook.

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 hex key to screw the grub screw 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 open hook and spring or an anchor plate.

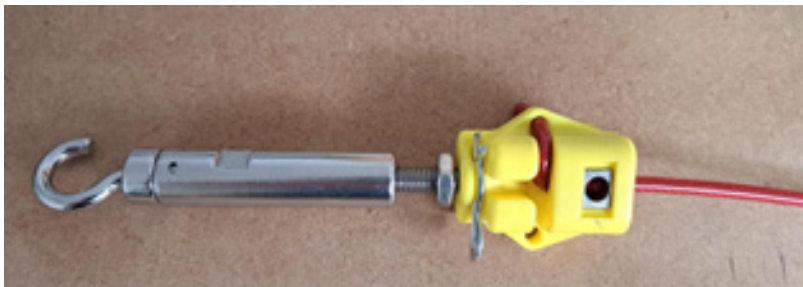


Assembly

5. The cable is required to pass through an eyelet every 2 - 3 meters, 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. Once the tension is correct then resecure the nut. Now whilst looking at the tension screens on the SL4, turn the tensioner until the red line meets the middle of the tension screen. (hold the cable clamp while turning the tensioner)



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

Assembly

Corner brackets must be aligned correctly with the rope direction also ensuring that the rope moves freely. Corner brackets can be used on external or internal corners. Corner brackets are sold seperatly.



Mounting

Use M5 or #10-32 bolts to mount the SL4 to the frame of the machine.

Figure 1 - Typical Mounting –Safeline 4 Cable Pull Switch

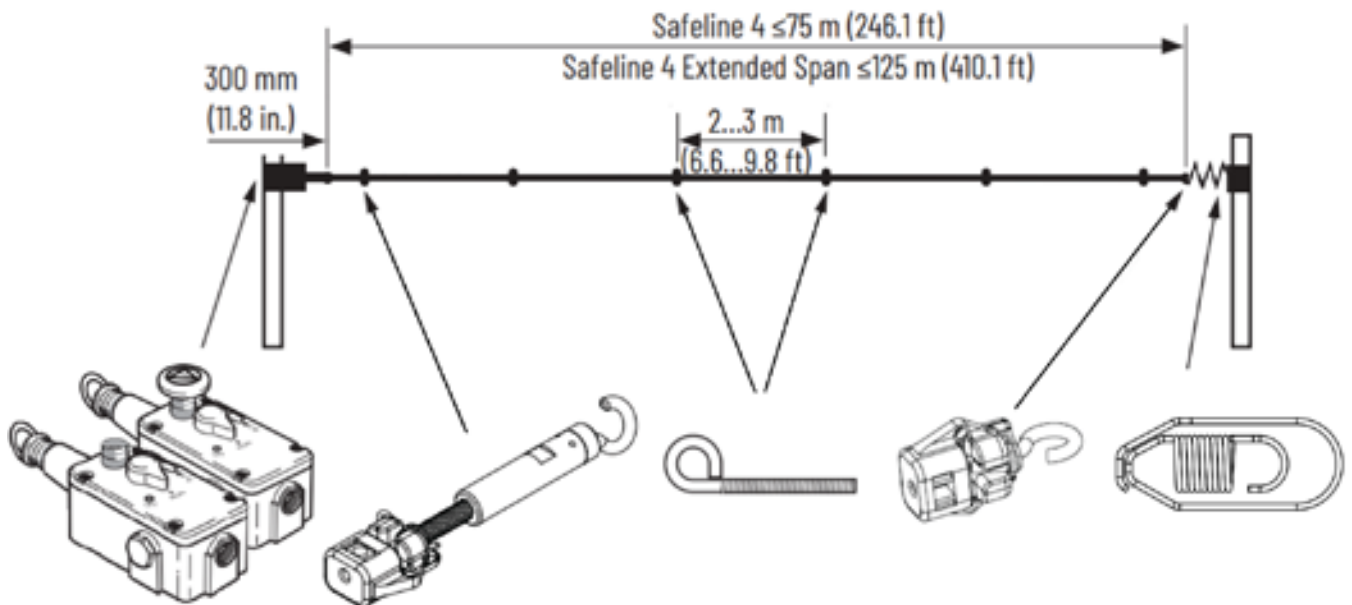
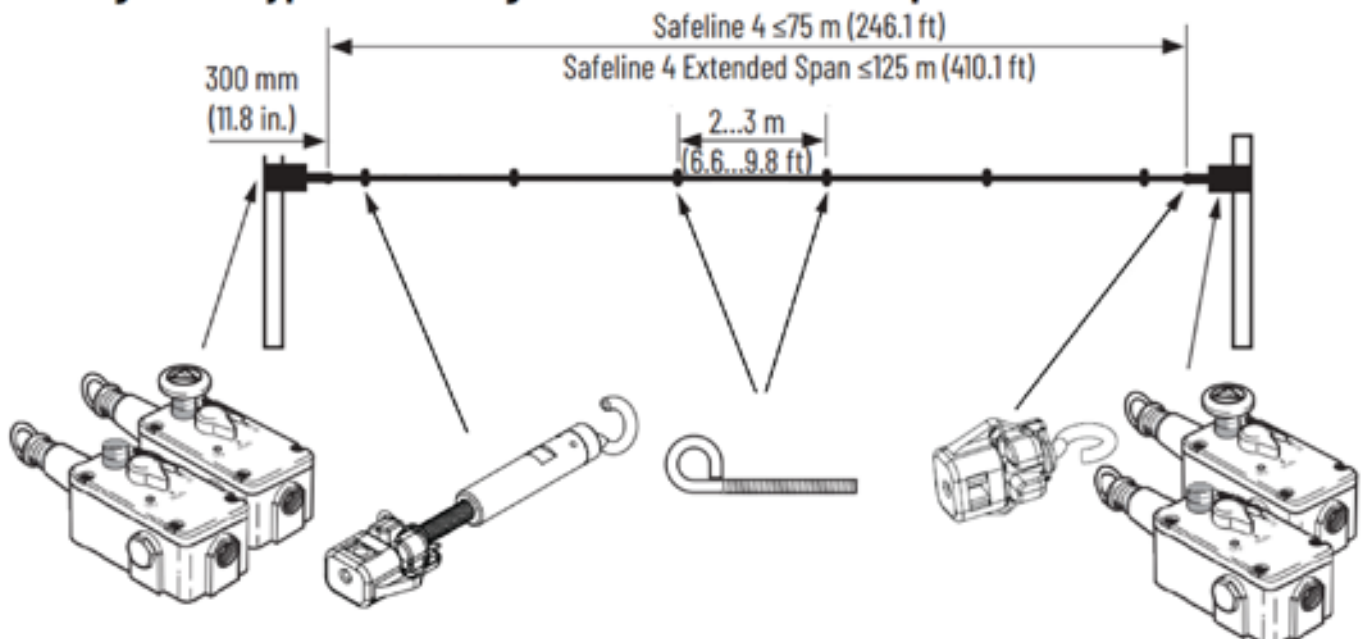











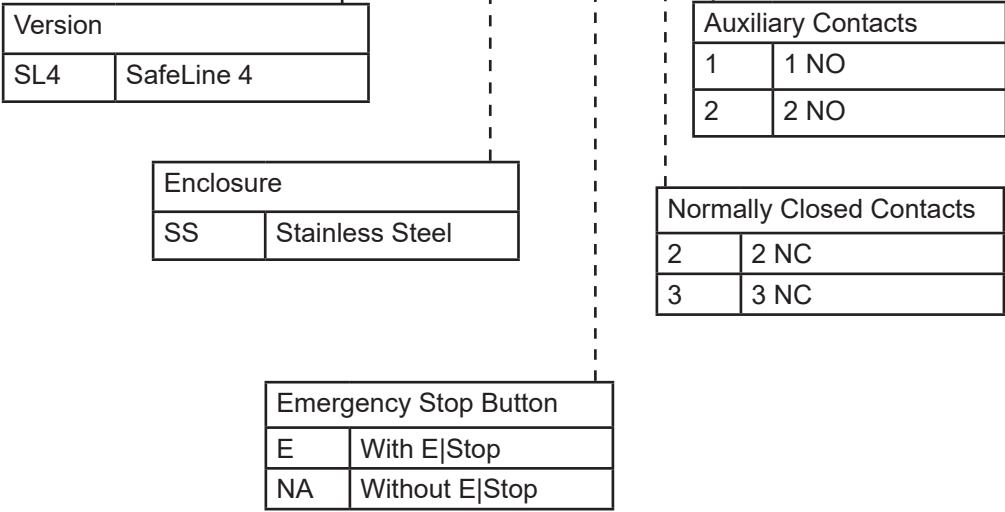
Figure 2 - Typical Mounting –Safeline 4 Extended Span Cable Pull Switch



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.