



# IDEM ROPE PULL KITS - Installation Instructions

## IMPORTANT NOTE:

Read and understand these instructions before installing, operating or maintaining this equipment.

The product is designed to be a component of a customised safety orientated control system. It is the responsibility of each manufacturer to ensure the correct overall functionality of its systems and machines. IDEM, its subsidiaries and affiliates, are not in a position to guarantee all of the characteristics of a given system or product not designed by IDEM.

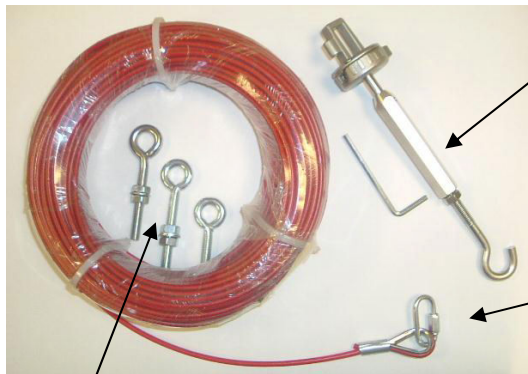
## General Installation Guide:

(Important - refer also to Rope Switch installation instructions).

1. Installation of all IDEM Safety Rope Switch systems must be in accordance with a risk assessment for the individual application. Installation must only be carried out by competent personnel and in accordance with these instructions.
2. Rope support eyebolts must be fitted at 2.5m. min. to 3m. max. intervals along all rope lengths between switches. The rope must be supported no more than 500mm from the switch eyebolt or Safety Spring (if used). It is important that this first 500mm is not used as part of the active protection coverage.

## Rope System Installation:

1. Check all parts:



Tensioner/Gripper  
Allen Key 4mm  
(Quantity as table).

Quick Link. (QL)  
For up to 50m. spans, one end of the rope is terminated with a thimble and permanent clamp (Quick Link). For spans above 50m. two Tensioner/Gripper assemblies are used. There is no Quick Link the rope ends are free.

Description	Rope	Eyebolts	Tensioner / Gripper	Allen Key
5M Kit	5M. QL	3	1	1
10M Kit	10M. QL	5	1	1
15M Kit	15M. QL	7	1	1
20M Kit	20M. QL	9	1	1
30M Kit	30M. QL	12	1	1
50M Kit	50M. QL	20	1	1
80M Kit	80M.	30	2	2
100M Kit	100M.	37	2	2
126M Kit	126M.	45	2	2

Eyebolts (M8 2nuts / 2washers)  
(Quantity as per table)

2. Ensure switches, eyebolts and safety springs are correctly positioned and rigidly mounted in their final operating position before connecting the Rope system. Ensure all Rope runs are clear, and that switch resetting function can be observed clearly. If a Safety Spring is used the whole length of the rope must be observed to the resetting function (switch) and the spring (EN ISO 13850).
3. When using pulleys, ensure they are aligned correctly with the rope direction and the rope moves freely and is retained around the pulley wheel. Pulleys can be used on inside corners, outside corners or for change in rope direction.

Universal Pulley:



Example: Inside corner fitting

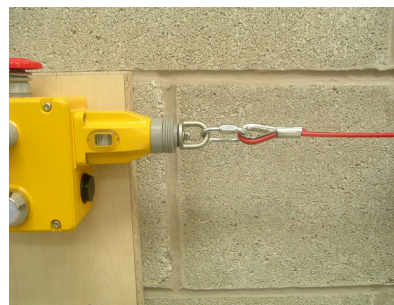


Example: Outside corner fitting

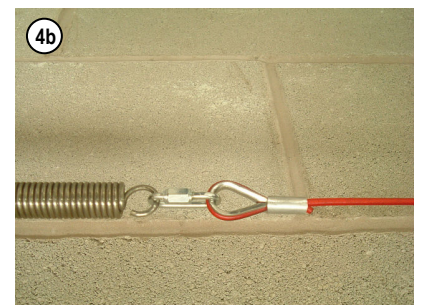


4. For systems up to 50m.

- 4a. For 2 switch systems, up to 50m., undo the locking clasp on the Quick Link (QL) locking and fit the clasp fully around one of the switch eyebolts.

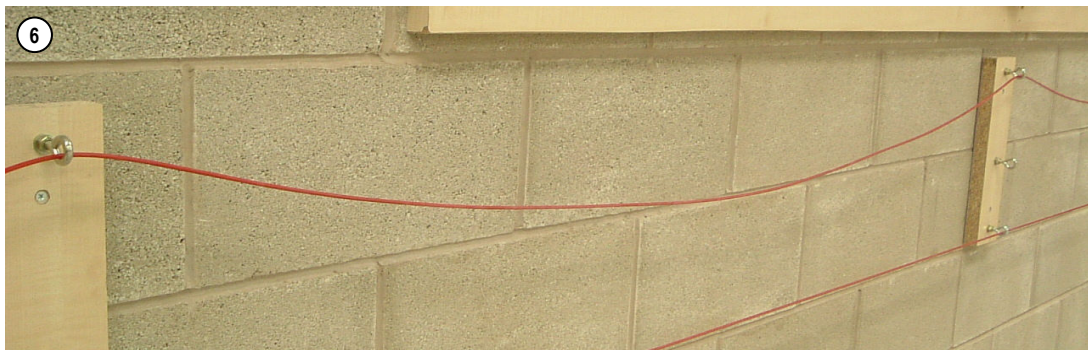


- 4b. For single switch systems, fit the QL to the Safety Spring.



5. For systems over 50m. two Tensioner/Gripper assemblies are provided to enable the maximum tension range to be achieved over longer lengths (there is no Quick Link provided). In this case instead of a QL, fit a Tensioner/Gripper to both ends of the system (See 7a and 7b).

6. After fitting the QL or Tensioner/Gripper to one end, feed the free end of the rope through each of the eyebolts and around pulleys ensuring that the rope is free to move.



7a. Unscrew the eyehook from the Hexagon shaped Thimble and re-fit the eyehook by 3 turns of the thimble to ensure that the eyehook is secure. Leave the maximum thread possible for later adjustment of the rope tension.



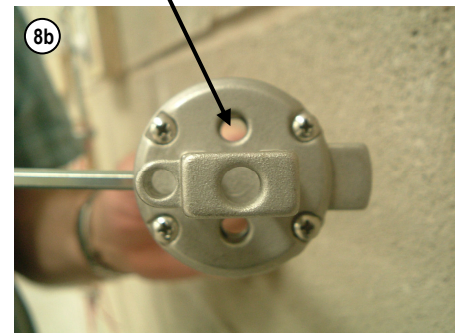
7b. Fit the eyehook through the switch.



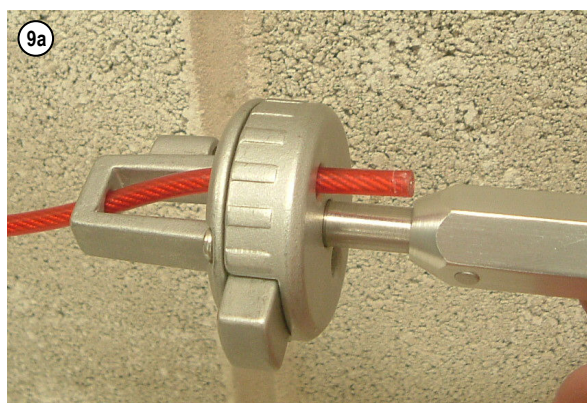
8a. Using the Allen Key (provided) open the locking bar in the main housing by turning the locking bolt.



8b. Ensure that the rope feed holes are open sufficiently to feed the rope through.



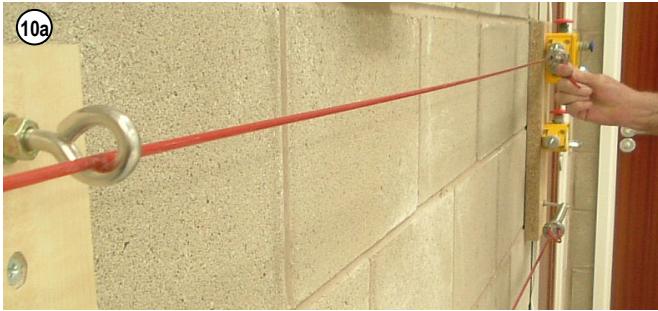
9a. Push the free end of rope through the central guide hole on the rear of the gripper housing and through either of the feed holes in the main housing.



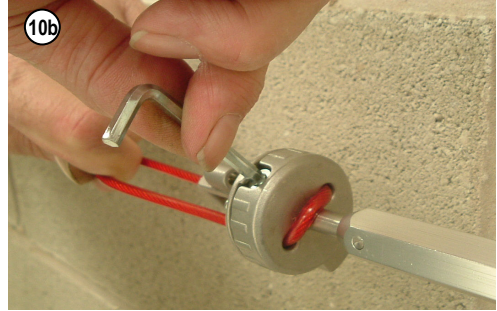
9b. Loop the rope over the thimble and back through 180 degrees and push through the other feed hole on the opposite side of the main housing.



10a. The rope is then pulled by hand through the Tensioner / Gripper to take up any slack rope before final locking.



10b. The rope is locked in position by the locking bar inside the main housing which is moved by using the allen key to turn the locking bolt.



11a. Tension the system by holding the hexagon thimble whilst turning the switch eyebolt



11b. For optimum performance the switch tension should be set at mid position (shown by the arrow in the viewing window).



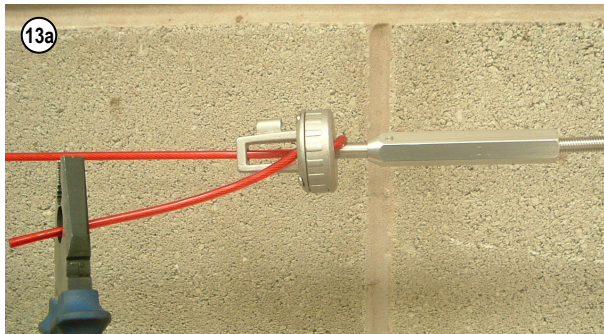
11c. For long rope spans >50m. it is advisable to balance the system by making turns to the Left and Right Tensioner/Grippers in turn whilst at the same time checking the rope tension setting in each of the switch viewing windows.



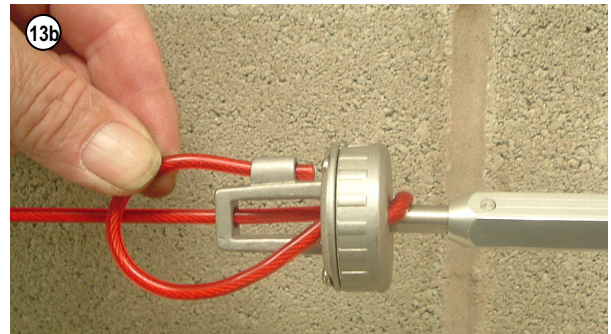
12. Tighten the lock nut tightly to the hexagon adjuster.



13a. Cut any excess rope but leave approximately 100mm free.



13b. Loop the remaining free end into the retaining clip.



### Maintenance:

Every Month (or as directed by the risk assessment for the application):  
Check correct operation of system at locations along all coverage length.  
Check all Pulleys and Tensioner components for signs of damage to the rope sheath. Replace any damaged rope.  
Check Rope Tensioner locking nut for tightness.  
Check for nominal tension setting, re-tension rope if necessary.

## Accessories

Sales Number		Description	Rope	Eyebolts	Tensioner / Gripper	Allen Key
Galvanised						
140001		5M Rope Kit	5M. QL	3	1	1
140002		10M Rope Kit	10M. QL	5	1	1
140003		15M Rope Kit	15M. QL	7	1	1
140004		20M Rope Kit	20M. QL	9	1	1
140005		30M Rope Kit	30M. QL	12	1	1
140006		50M Rope Kit	50M. QL	20	1	1
140007		80M Rope Kit	80M.	30	2	2
140008		100M Rope Kit	100M.	37	2	2
140009		126M Rope Kit	126M.	45	2	2
Sales Number		Description	Rope	Eyebolts	Tensioner / Gripper	Allen Key
Stainless Steel						
140010		5M Rope Kit	5M. QL	3	1	1
140011		10M Rope Kit	10M. QL	5	1	1
140012		15M Rope Kit	15M. QL	7	1	1
140013		20M Rope Kit	20M. QL	9	1	1
140014		30M Rope Kit	30M. QL	12	1	1
140015		50M Rope Kit	50M. QL	20	1	1
140016		80M Rope Kit	80M.	30	2	2
140017		100M Rope Kit	100M.	37	2	2
140018		126M Rope Kit	126M.	45	2	2
140019		Rope Tensioner / Gripper	Stainless Steel			
140020		Rope Tensioner / Gripper	Galvanised Steel			
140021		77mm Long 40mm High	Fixing Hole centres 20mm			
140064		Universal Pulley (Inside and Outside Corners)	Stainless Steel			
		Universal Pulley (Inside and Outside Corners)	Galvanised			
140045		84mm Long	Thread length 51mm M8 x 1.25			
140046		Eyebolt	Stainless Steel			
		Eyebolt	Galvanised			
Standard Bezel	S/Steel Bezel	LED Green / Flashing Red	24V.dc.			
140042-A	140042-A-SS	LED Green / Flashing Red	110-120V.ac.			
140042-B	140042-B-SS	LED Green / Flashing Red	230V.ac.			
140042-C	140042-C-SS	LED Steady Green/Steady Red	24V.dc.			
140132-AS	140132-AS-SS	LED Steady Green/Steady Red	110-120V.ac.			
140132-BS	140132-BS-SS	LED Steady Green/Steady Red	230V.ac.			
140132-CS	140132-CS-SS					
140043		220mm Long	Safety Spring	Standard		
140044		E-Stop Mechanism	Standard			
140144		E-Stop Mechanism	Stainless Steel			

