Rope Operated Stop Switches

Rope operated safety switches for the protection of exposed machinery

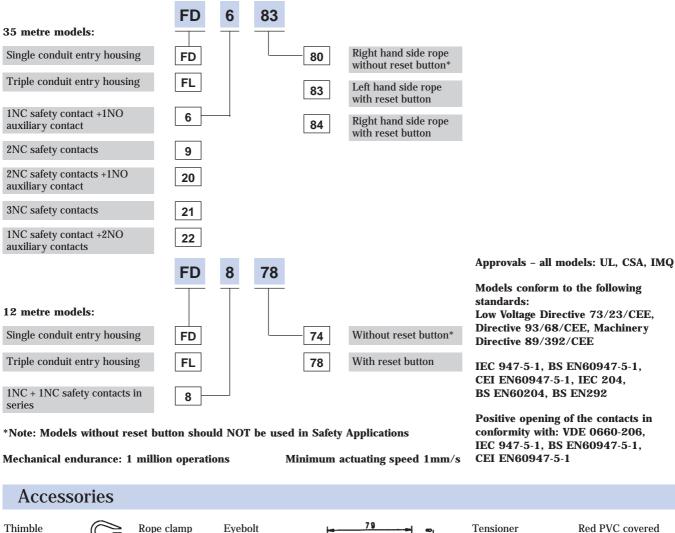
- Lockout mechanism isolates safety contacts until manually reset
- **12** and 35 metre rope length models
- Indicator of correct rope tension
- Fail-safe in the event of slack or broken wire rope
- Heavy duty die-cast metal alloy housing
- Single and triple conduit entry models
- Dimensions in accordance with EN50041
- IP66
- UL/CSA approved
- Conforms to EN418

35 metre model:

- Immune to machine vibration
- Available with a wide range of contact block configurations
- Left-hand and right-hand models for reset button and conduit entry position convenience
- 12 metre model:
- Head rotatable in 90° increments for reset button position convenience

Options and ordering codes

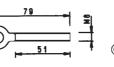




Thimble Part no. C870 (One thimble supplied with each switch)



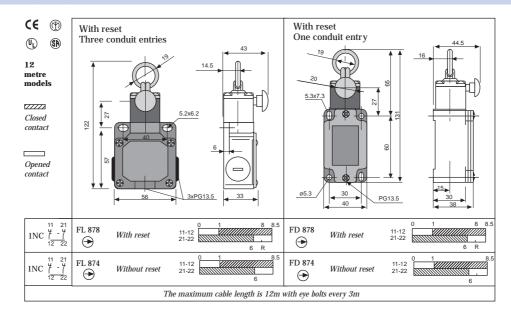
Part no. T870 (For tensioning or for supports along the length of rope)

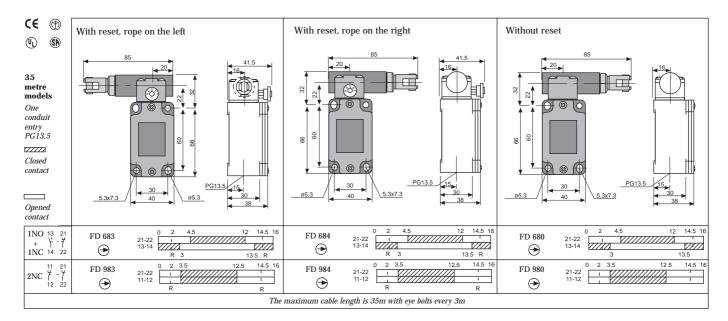


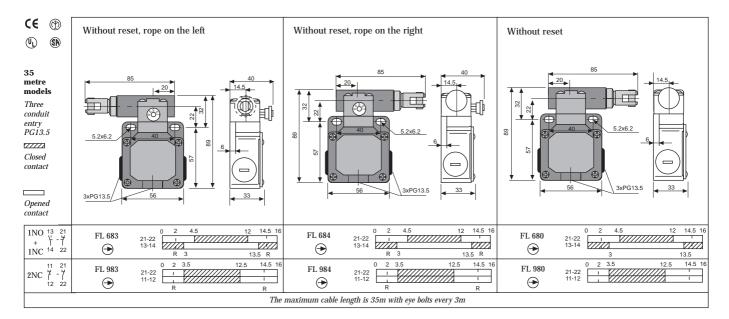
Tensioner Part no. K870 Red PVC covered steel wire rope ø5mm Part no. FO5 sold per metre

It is recommended to use only original accessories, otherwise the declared performance will not be guaranteed

Dimensions (mm)

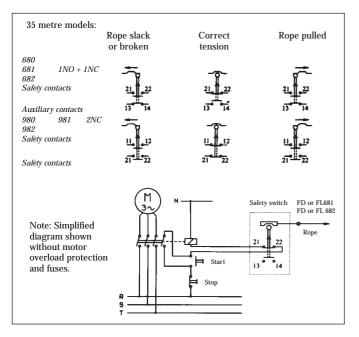


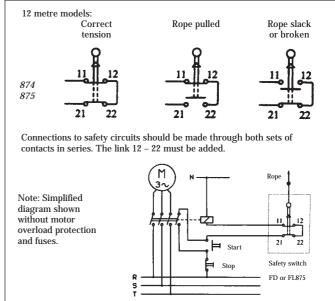




IMO

Terminal connections





Notes: a) The terminal screws are M3.5 with rising cable clamps for ease of wiring.

- b) The maximum terminal screw torque is $0.8 \mbox{Nm}$ (8kg cm)
- c) Fuse protection required against short-circuit in the safety circuit: 10A HRC quick blow max.
- d) An earth terminal is provided inside the case.
- e) Contact blocks are not removable due to interlocking with the positive break system.
- f) Terminal numbering in accordance with EN50013

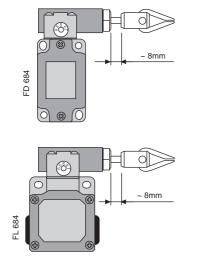
Installation

Installation guidelines:

- 1. The switch bodies should be fixed using M5 screws and aligned such that the rope is tensioned in the direction of the plunger travel, not at an angle.
- 2. The rope should be supported along its length, every 2-3 metres, using an eyebolt.
- 3. The first and last eyebolts should be a maximum of 300mm from the switches, to ensure that the rope movement at both switches is axial, i.e., in the direction of the plunger travel.
- 4. The tensioner should be positioned in the centre of the rope. If a tensioner is used, 2 thimbles and 2 rope clamps will also be required.
 5. The 680/683/684/980/983/984 models can operate up to 35
- metres. 6. The 874/875 models can operate up to 12 metres.
- 6. The 8/4/8/5 models can operate up to 12 metre

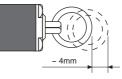
FD/FL 683/684/983/984 (35m models)

The rope should be tensioned until the head plunger has travelled approximately 8mm and then the reset button pulled to release the mechanism. The force required will be approximately 19.5kg (191N)



FD/FL 878 (12m models)

The rope should be tensioned until the head plunger has travelled approximately 4mm. The force required to tension will be approximately 7.5kg (73.5N)

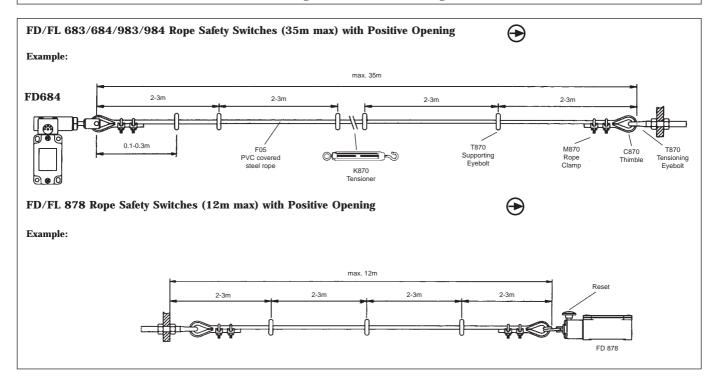


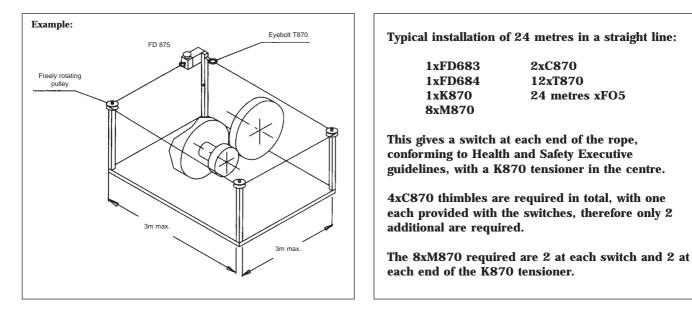


Applications

These rope operated safety switches are installed on machines or belts. They enable a stop at any point of the machine simply by pulling the rope by hand. **Being equipped with a self-checking function**, they constantly test their operation and signal by the opening of the contacts, an accidental unfastening or break of the rope. When the models with reset button are used, they maintain the contacts open after operation even if the rope is released.

The examples shown on this page are the simplest form of protection, with a switch at one end of the rope and the other end fixed. Health and Safety Executive recommendations are to use two switches, one at each end of the rope, for increased protection.





Accessories Thimble Part no. C870 (One thimble supplied with each switch) Part no. M870 Part no. M870 (For tensioning or for supports along

the length of rope)

Red PVC covered steel wire rope ø5mm Part no. FO5 sold per metre

It is recommended to use only original accessories, otherwise the declared performance will not be guaranteed

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