

Conveyor Stop/ Emergency Stop Pullkey Systems

- ATEX-certified dustproof models available, Group II Category 1 D
- IP65 enclosure & corrosive resistant components
- Double-ended
- Cats-eye indication (optional semaphore flag)
- Easy installation
- 3 years UK warranty (1 year overseas, from date of supply)



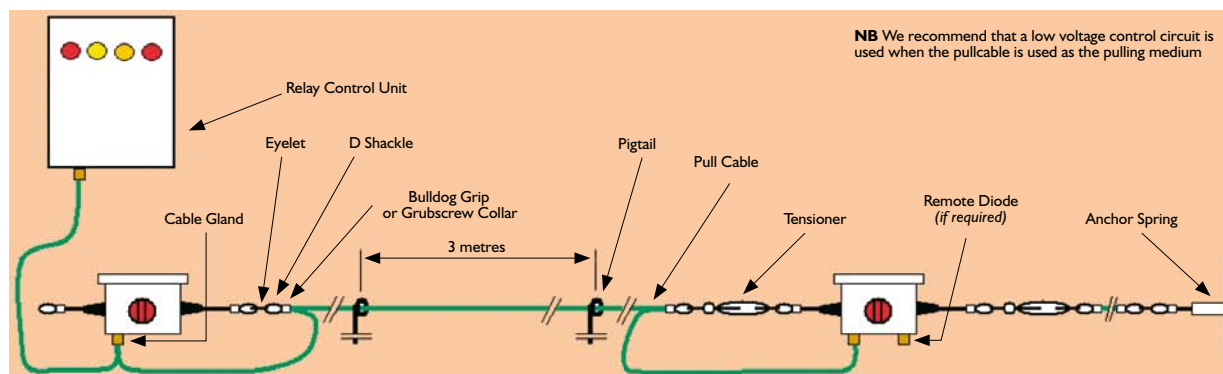
Davis Derby's comprehensive range of StedFAST® conveyor protection devices protect plant and people in quarries, mines, tunnels, processing plants, ports and railway depots worldwide.

All Davis Derby devices are compatible and can be easily installed by qualified electrical engineers on new or retrofit schemes. The primary stopping device on any conveyor system is the pull cable/wire operated safety switch, now available in compliance to BSN EN 418 & EN ISO 13849-1 PLe (Cat. 4) / EN954-1 Cat. 4.

Davis Derby design and manufacture a double-ended stop device, which can be adopted as either a normal stop switch, or wired to function as an emergency stop switch, isolating conveyor movement in the event of incidents. When required to operate as a normal stop switch, the pullkey device can be either, wired and fitted to some or all of the moving parts of conveyor machinery to render them safe.

Alternatively, when required to operate as an emergency stop switch, all the pullkeys internal positivebreak micro-switches should be used and connected to any/all parts of conveyor machinery.

By connecting up all the micro switches to a certified safety relay, the pullkey system will comply with the emergency stop standards of BS EN 954-1. To enable a successful emergency stop control, all pullkeys and safety relays must be connected to the machinery it is protecting and to all upstream and downstream equipment, where deemed necessary.



Types

All Davis Derby's StedFAST® HT 800 Series pullkey range is designed for use in safety critical systems for controlling conveyors.

The CAT 4 Pullkey provides LED indication of 'Slack Wire' and 'Key Fault'

All pullkeys are moulded from high stability UV protected polycarbonate, which is tough and lightweight.

All pullkeys can be used in conjunction with all StedFAST® relay control units, or on a control circuit up to 110 volts ac. For systems to comply with emergency stop safety regulations, safety relays* must be used.

| HT 800 Series Pullkey Type ORDER CODES | 32kg springs | 12kg springs | 6kg springs | Optional semaphore flag indication |
|---|-----------------|-----------------|----------------|---------------------------------------|
| HT832V3 (standard) | ● | | | |
| HT832FV3 (standard + semaphore flag) | ● | | | ● |
| HT806V3 (basic) | | | ● | |
| HT806FV3 (basic + semaphore flag) | | | ● | ● |
| HT812DP23 (dustproof) | | ● | | |
| HT812FDP23 (dustproof + semaphore flag) | | ● | | ● |
| HT812CAT4 | | ● | | ● |

* Relays available to order:

ICR3 (2 relay output); 23418 (standard relay); and the Pilz Safety Relay.

Installation

Recommended spacing between StedFAST® pullkeys for taut-wire systems is up to 50 metres maximum, in conjunction with pig tails at 3 metre intervals. (However, spacing can be up to 100m maximum when installed on slack-cable/wire installations, in conjunction with pigtails at 2-3m intervals for Normal Stopping).

Incoming and outgoing cables are connected via 20mm cable glands to the internal 12-way easy-access terminal block. The operating knob is sealed with an O-ring and the lid is fitted with a fully recoverable closedcell silicon gasket.

Each pullkey comes boxed with wiring instructions, and several types can be supplied with the wiring and mechanism preconfigured to suit specific applications upon request, and manuals are available upon request.

Operating the Safety Switch

The StedFAST® pullkey has a snap action mechanism to meet the requirements of PD 5304:2005 and BS EN 620:2002.

Stop/trip system via Pull Switch

To stop, turn the red switch 90° to the right.

To reset, turn 90° to left
(to the normal operating position).

Stop/trip system via Pull Cable/Wire

Pull cable or wire until the red switch turns to the right and clicks.

To reset, turn 90° to left
(to the normal operating position).

Accessories & Assistance

For all practical guidance on protecting conveying equipment and your specific application, and/or international pricelists, phone StedFAST® Customer Services on: +44 (0)1332 227 534 or +44 (0)7736 638 759

View our full range of StedFAST® conveyor protection products www.davisderby.com/stedfast