



Solus Pullkey Accessories



- **Polycarbonate Construction (hard wearing, non-rusting, lightweight)**
- **Unique spring-operated cam lockout mechanism.**
- **OEM & Specialised versions available.**
- **Latching & non-latching versions.**
- **Grease-packed pull rope sliders**
- **Water & dust sealed to IP65**

SOLUS pull keys provide stopping and signalling facilities on stage loaders, afcs, haulages and roadway conveyors with a variety of GAI-Tronics and other approved manufacturers' control circuits.

Their remarkably low weight combines with their unique resistance to corrosion and impact damage to provide unsurpassed reliability in operation and convenience in installation and maintenance.

As a users option, SOLUS pull keys can be supplied with:

- Latching or non-latching lockout mechanism
- Sealed or unsealed microswitches with gold plated contacts
- An independent signal button

The case and cover are precision-moulded from flame-retardant polycarbonate and the interior is of two-part construction to provide isolation between the mechanical, the electrical/termination sections. The pull mechanism is mild steel, zinc-plated and passivated, and grease-packed for additional protection.

The pull ropes and all external screws are stainless steel.

The cover is secured by four M6 hexagon-head captive screws.

'Cat's Eye' type reflectors in the end of the Lockout/Reset switch are visible along the roadway when the switch is in 'Lockout' position.

A slotted mounting hole, 21x11mm, is provided at each end of the unit.

OPERATION

Running

Front cover switch in 'Reset' position
The circuit is intact with the machine running or ready to run. Signalling can be performed with the signal button (if fitted).

Pull Cable Lockout

Pull and release the pull cable
On a **latching** pull key the front cover switch moves to the 'lockout' position and stays there when the cable is released. The circuit opens and the machine stops.

On a **non-latching** pull key the front cover switch remains in the 'Reset' position and the lockout is latched electrically at the control unit. In both cases, once lockout has been achieved, further pulls on the cable or operations of the signal button if fitted will cause signal raps to be sent from the pull key to the control unit.

Manual Lockout

Turn the front cover switch to 'Lockout' position.

The circuit opens and the machine stops. Signalling may now be performed by turning the front cover switch further clockwise, or by pressing the signal button (if fitted) or by pulls on the pull cable.

Reset - Latching Pull Key

Turn the front cover switch to the 'Reset' position.

The circuit is now intact and the machine can be started from the control unit.

Reset - Non-Latching Pull Key

Turn the front cover switch to the 'Reset' position if it is at 'Lockout.'
Perform reset action at the control unit. The circuit is now intact and the machine can now be started from the control unit.

SPECIFICATIONS

Constructed to IP65

Microswitches:
Burgess type VCSP-GP,

Single pole, Double throw, up to three.

Microswitches maximum contact ratings:

| Voltage | | Resistive Load | Inductive Load |
|-----------|------|----------------|----------------|
| AC: | 125V | 10A | 10A |
| | 250V | 10A | 10A |
| DC: Up to | 15V | 15A | 15A |
| | 30V | 10A | 10A |
| | 50V | 3A | 2.5A |
| | 75V | 1A | 0.5A |
| | 125V | 0.5A | 0.07A |
| | 250V | 0.25A | 0.03A |

Dimensions:

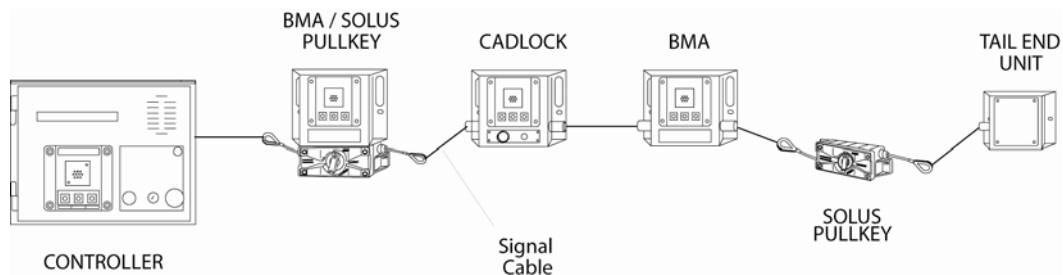
| | |
|---------------------------------|-------|
| Length: | 272mm |
| Height: | 98mm |
| Depth: | 116mm |
| Mounting holes between centres: | 232mm |

Weight: 1.7kg

ORDERING INFORMATION

Please call or visit www.gai-tronics.co.uk

SYSTEM DIAGRAM



TYPICAL CONVEYOR CONTROL SIGNALLING AND COMMUNICATION SYSTEM SHOWING SOLUS PULLKEYS

