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# IDEM GUARDIAN LINE STANDARD DUTY GLS

142079B
GLS ½NPT '4NC' E Stop & LED 110V



- Protection up to 60 metres with one switch
- Protection up to 80 metres with two switches
- Emergency stop switch versions
- Duel colour Led option
- Special low temperature version (-40°C)

### PRODUCT DESCRIPTION

The GLS is a General/Standard Duty robust die-cast Safety Rope Pull Switch designed to protect conveyor lengths where protection is required up to 80m using two switches or up to 60m using a single switch.
They provide a reliable general purpose safety solution for conveyors and offer a choice of fittings depending upon the application.
They can be supplied with a mushroom type Emergency Stop button which can be fitted to the side of the switch to offer an extra traditional Emergency Stop function close to the switch, or can be fitted later after installation without any extra wiring.
A bi-colour LED is also available to show switch status from a distance and they have a choice of 3 pole, 4 pole or Explosion Proof contact blocks to ensure flexibility with all modern control applications.
Rugged internal sealing bellows means the GLS can be high pressure hosed and choice of materials makes them suitable for internal or external use.

# TECHNICAL DATA

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| **Annual usage** | 8 cycles per hour/24 hours per day/365 days |
| **Approvals** | EN60947-5-5, ISO 13850, ISO 13849-1, EN62061, EN60947-5-1, UL 508 |
| **Conduit entry** | 3 x 1/2" NPT |
| **Contact type** | EN60947-5-1 double break type Zb. Snap action up to 4NC (positive break) 2NO (auxiliary) |
| **Contacts** | 4NC |
| **Fittings** | E-stop and LED |
| **Housing material** | Die cast metal |
| **Integrated emergency stop button** | Yes |
| **Integrated LED indication** | Yes |
| **IP class** | IP67 |
| **LED indication** | Steady green/Flashing red |

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|---|---|
| **LED supply voltage** | 110Vac |
| **Material contacts** | Silver |
| **Mechanical reliability B10d** | 1.5 x $10^6$ operations at 100mA load |
| **Mounting** | 4 x M5 |
| **MTTFd** | 214 years |
| **Operating temperature** | -25°C +80°C |
| **PFHd** | <1.0 x $10^{-7}$ |
| **Rope span** | Up to 80m (2 switches) 60m (1 switch) |
| **Rope tension device** | IDEM tensioner/gripper (quick fixing) |
| **Rope type** | 4.00mm outside diameter. Steel inner - PVC sheath |
| **Short circuit overload protection** | Fuse externally 10A(FF) |
| **Tension force (typical mid setting)** | 130 N |
| **Termination** | Clamp up to 2.5mm² conductors |
| **Thermal current (Ith)** | 10 A |
| **Typical operating force (rope pulled)** | <125N <300mm deflection |
| **Weight** | 735 g |

