Guardian Line Standard Duty Type: GLS

FEATURES:

PROTECTION UP TO 80 METRES (262 FEET)

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.

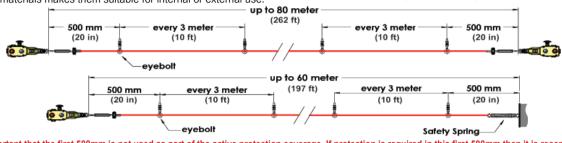
They provide a reliable general purpose safety solution for conveyors and offer a choice of fittings depending upon the application.

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.

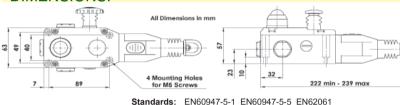


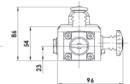
GLS-FZ: Special low temperature version -40C available.



It is important that the first 500mm is not used as part of the active protection coverage. If protection is required in this first 500mm then it is recommended to use switches fitted with a mushroom type E-Stop button. IDEM also recommend when using a Safety Spring that a maximum of one corner pulley is used.

DIMENSIONS:





CONDUIT

SALES

NUMBER



Pre-wired EX versions (see Explosion Proof section)

FITTINGS

CONTACTS

Safety Classification and Reliability Data:

1.5 x 106 operations at 100mA load Mechanical Reliability B10d

ISO13849-1 Up to PLe depending upon system architecture EN62061 Up to SIL3 depending upon system architecture Safety Data - Annual Usage 8 cycles per hour/24 hours per day/365 days

UL508 ISO13850 ISO13849-1

PFHd Proof Test Interval (Life) 21 years

Standards:

MTTFd 214 years Enclosure Material Die Cast (painted yellow)

IP Rating IP67 (NEMA 6)

Up to 80m (2 switches) 60m (1 switch) Rope Span Rope Tension Device IDEM Tensioner/Gripper (quick fixing) 4.00mm outside dia. Steel inner - PVC sheath Rope Type

Mounting Mounting Position Any

Conduit Entries 3 x M20 or 3 x 1/2" NPT (by Sales Number) **Tongue Settings** Mounting M5 4.0Nm

Lid T20 Torx M4 1.5Nm Terminals 1.0Nm

Ambient Temperature -25C +80C 10-500Hz 0.35mm Vibration Resistance Shock Resistance 11ms 15g

Tension Force (typical mid setting) 130N <125N <300mm deflection Typical Operating Force (Rope pulled) Weight 735g approx

EN60947-5-1 double break type Zb Contact Type Snap Action up to 4NC (positive break) 2NO (Auxiliary)

Fuse externally 10A(FF)

Contact Material Silver Termination Clamp up to 2.5mm2 conductors Utilisation category AC15 Rating Operational Rating 240V 3A Thermal Current (Ith) 10A Rated Insulation Voltage (U) 500V Withstand Voltage (Uimp) 2500V

142001 3 x M20 2NC 1NO 3 x 1/2" NPT 142002 2NC 1NO 142005 3 x M20 2NC 1NO LED 142006 3 x 1/2" NPT 2NC 1NO LED 142009 3 x M20 2NC 1NO F-Ston 142010 3 x 1/2" NPT 2NC 1NO E-Stop 142017 3 x M20 2NC 1NO E-Stop & LED 3 x 1/2" NPT 2NC 1NO 142018 E-Stop & LED 142050 3 x M20 3NC 1NO 142051 3 x 1/2" NPT 3NC 1NO 142052 2NC 2NO 3 x M20 142053 3 x 1/2" NPT 2NC 2NO 142054 3 x M20 4NC 3 x 1/2" NPT 4NC 142055 3 x M20 3NC 1NO 142057 3 x 1/2" NPT 3NC 1NO LED LED 142058 2NC 2NO 3 x M20 142059 3 x 1/2" NPT 2NC 2NO LED 142060 3 x M20 4NC LED 142061 3 x 1/2" NPT 4NC LED 3 x M20 3NC 1NO E-Stop 142063 3 x 1/2" NPT 3NC 1NO E-Stop 142064 3 x M20 2NC 2NO E-Stop 3 x 1/2" NPT E-Stop 142065 2NC 2NO 142066 3 x M20 4NC E-Stop 3 x 1/2" NPT 4NC E-Stop 142067 142074 3 x M20 3NC 1NO E-Stop & LED 142075 3 x 1/2" NPT 3NC 1NO E-Stop & LED 142076 3 x M20 2NC 2NO E-Stop & LED 3 x 1/2" NPT 142077 2NC 2NO E-Stop & LED 142078 3 x M20 4NC E-Stop & LED 142079 3 x 1/2" NPT 4NC E-Stop & LED 142026 Replacement Lid Replacement Lid/LED For LED Models add voltage code to Sales Number see below

Steady Green/Flashing Red A - 24Vdc B - 110Vac C - 230Vac Steady Green/Steady Red AS - 24Vdc BS - 110Vac CS - 230Vac

For all IDEM switches the normally closed (NC) circuits are closed when the system is tensioned correctly and the switch has been reset.

Short Circuit Overload Protection