# 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.

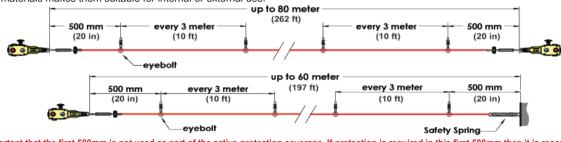
They provide a reliable general purpose safety solution for conveyors and offer a choice of fittings depending upon the application.

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.

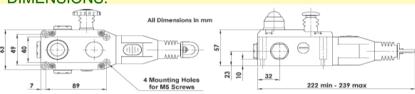


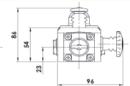
GLS-FZ: Special low temperature version -40C available.



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:**







Pre-wired EX versions (see Explosion Proof section)

**Standards:** EN60947-5-1 EN60947-5-5 EN62061 UL508 ISO13850 ISO13849-1

#### Safety Classification and Reliability Data:

Mechanical Reliability B10d 1.5 x 10<sup>6</sup> operations at 100mA load

ISO13849-1 EN62061

Up to PLe depending upon system architecture Up to SIL3 depending upon system architecture 8 cycles per hour/24 hours per day/365 days MTTFd 214 years

Safety Data – Annual Usage

Enclosure Material
IP Rating

Die Cast (painted yellow) IP67 (NEMA 6)

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

Rope Type
4.00mm outside die
Mounting
4 x M5
Mounting Position
Any

4.00mm outside dia. Steel inner - PVC sheati

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

Ambient Temperature -25C +80C
Vibration Resistance Shock Resistance 11ms 15g
Vibration 15g
Vibration

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

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

Contact Material Silv
Termination Clar
Rating Utili
Operational Rating 240

Operational Rating 240V
Thermal Current (Ith) 10A
Rated Insulation Voltage (U) 500V
Withstand Voltage (Uimp) 2500V

Withstand Voltage (Uimp) Short Circuit Overload Protection

Silver
Clamp up to 2.5mm² conductors
Utilisation category AC15
240V 3A
10A

Fuse externally 10A(FF)

SALES NUMBER	CONDUIT	CONTACTS	FITTINGS
142001	3 x M20	2NC 1NO	
142002	3 x 1/2" NPT	2NC 1NO	
142005	3 x M20	2NC 1NO	LED
142006	3 x 1/2" NPT	2NC 1NO	LED
142009	3 x M20	2NC 1NO	E-Stop
142010	3 x 1/2" NPT	2NC 1NO	E-Stop
142017	3 x M20	2NC 1NO	E-Stop & LED
142018	3 x 1/2" NPT	2NC 1NO	E-Stop & LED
142050	3 x M20	3NC 1NO	
142051	3 x 1/2" NPT	3NC 1NO	
142052	3 x M20	2NC 2NO	
142053	3 x 1/2" NPT	2NC 2NO	
142054	3 x M20	4NC	
142055	3 x 1/2" NPT	4NC	
142056	3 x M20	3NC 1NO	LED
142057	3 x 1/2" NPT	3NC 1NO	LED
142058	3 x M20	2NC 2NO	LED
142059	3 x 1/2" NPT	2NC 2NO	LED
142060	3 x M20	4NC	LED
142061	3 x 1/2" NPT	4NC	LED
142062	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
142065	3 x 1/2" NPT	2NC 2NO	E-Stop
142066	3 x M20	4NC	E-Stop
142067	3 x 1/2" NPT	4NC	E-Stop
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
142077	3 x 1/2" NPT	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		
142027	Replacement Lid/LED		LED
For LED Models add voltage code to Sales Number see below			
Steady Green/Flashing Red			

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

Gold Plated Contacts available for low power circuits (5V 5mA).
Add GC to Sales Number e.g. 142001-GC