GUARDIAN LINE SERIES - GRAB WIRE ROPE PULL SAFETY SWITCHES

Guardian Line Standard Duty Type: GLS



+31(0)85-27 36 750

Tel

Fax

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.

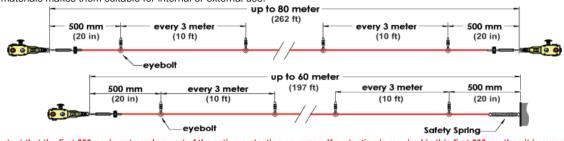
They provide a reliable general purpose safety solution for conveyors and offer a choice of fittings depending upon the application.

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.

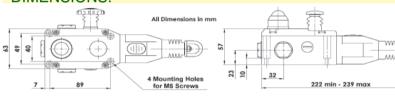


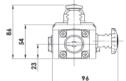
GLS-FZ: Special low temperature version -40C available.



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:







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

21 years

214 years

4 x M5

130N

735g approx.

IP67 (NEMA 6)

Die Cast (painted yellow)

1.5 x 106 operations at 100mA load

Up to PLe depending upon system architecture

Up to SIL3 depending upon system architecture

8 cycles per hour/24 hours per day/365 days

Up to 80m (2 switches) 60m (1 switch)

IDEM Tensioner/Gripper (quick fixing) 4.00mm outside dia. Steel inner - PVC sheath

Safety Classification and Reliability Data:

Mechanical Reliability B10d ISO13849-1

EN62061 Safety Data - Annual Usage

PFHd Proof Test Interval (Life)

MTTFd Enclosure Material

IP Rating

Rope Span Rope Tension Device

Rope Type Mounting Mounting Position

Conduit Entries **Tongue Settings**

Any 3 x M20 or 3 x 1/2" NPT (by Sales Number) Mounting M5 4.0Nm Lid T20 Torx M4 1.5Nm

Terminals 1.0Nm Ambient Temperature -25C +80C 10-500Hz 0.35mm Vibration Resistance 11ms 15g

Shock Resistance Tension Force (typical mid setting) Typical Operating Force (Rope pulled) Weight Contact Type

Contact Material

Snap Action up to 4NC (positive break) 2NO (Auxiliary) Silver Clamp up to 2.5mm2 conductors Termination

<125N <300mm deflection

EN60947-5-1 double break type Zb

Utilisation category AC15 Rating Operational Rating 240V 3A Thermal Current (Ith) 10A Rated Insulation Voltage (U) 500V Withstand Voltage (Uimp) 2500V

Fuse externally 10A(FF) Short Circuit Overload Protection

23	96	Pre-wired EX versions (see Explosion Proof section	
ALES JMBER	CONDUIT	CONTACTS	FITTINGS

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	Replacer	ment Lid			
142027	Replaceme	nt Lid/LED	LED		
For LED Models add voltage code to Sales Number see below					
Steady Green/Flashing Red					

A - 24Vdc B - 110Vac C - 230Vac

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