

# Guardian Line Standard Duty - Type GLS

## Protection up to 80 meters



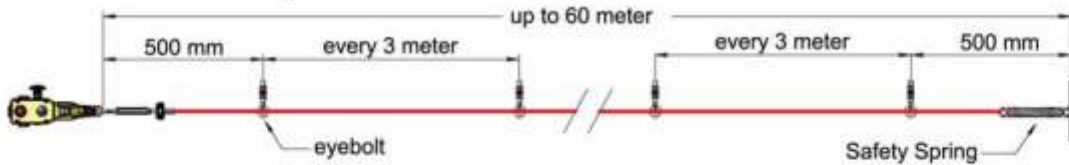
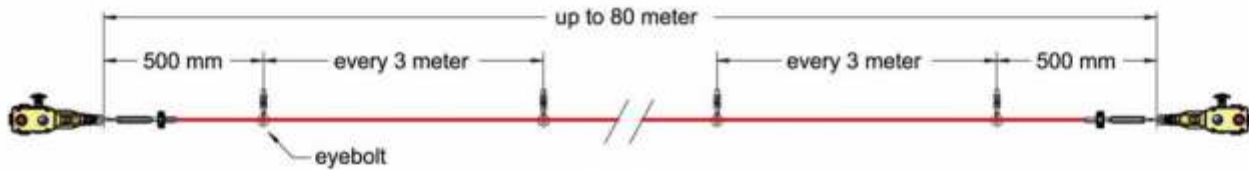
The GLS a General Duty robust die-cast Safety Rope Pull switch designed to protect conveyor lengths where protection is required up to 80m. using two switches or up to 60m. using a single switch.

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

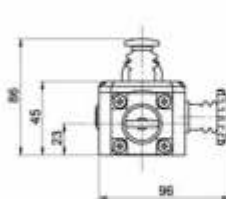
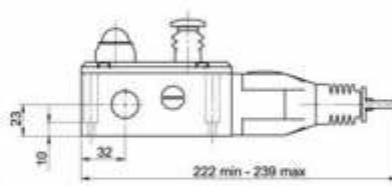
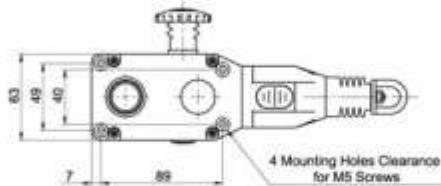
They can be supplied with a mushroom type Emergency Stop button which can be fitted to the side of the switch to offer an extra traditional Emergency Stop function close to the switch, or can be fitted later after installation without any extra wiring.

A bi-colour LED is 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 integral sealing bellows means they can be high pressure hosed and the choice of materials makes them suitable for inside or outside use.



It is recommended when using a Safety Spring that a maximum of one corner pulley is used.



- Standards: IEC 947-5-1 IEC947-5-5 EN 418
- UL508 BS 5304
- Approvals: cULus TÜV
- Enclosure / Cover: Die-Cast - Painted Yellow
- External Parts: Stainless Steel
- IP Rating: IP67
- Rope Spans: Up to 80m.
- Rope Tension device: IDEM Tensioner / Gripper - Quick Fixing
- Rope Type: 4.0 mm Outside Dia. Steel inner - PVC sheath
- Mounting: 4 x M5
- Mounting position: Any
- Conduit entries: 3 x M20 or 3 x 1/2" NPT by part number
- Torque settings: Mounting M5 4.0 Nm  
Lid T20 Torx M4 1.5 Nm  
Terminals 1.0 Nm
- Ambient Temperature: -25C. 80 C.
- Vibration resistance: 10-500Hz 0.35mm
- Shock resistance: 15g 11ms
- Tension Force (typical mid setting): 130N.
- Typical Operating Force (Rope pulled): < 125N. < 300mm Deflection
- Mechanical Life: 1,000,000 operations
- Weight: 820 g.
- Contact type: IEC 947-5-1 Double break Type Zb  
Snap Action up to 4NC (positive break)  
2NO (Auxiliary)
- Contact Material: Silver
- Termination: Clamp up to 2.5 sq. mm conductors
- Rating: Utilisation Category: AC15
- Operational Rating: 240V. 3A.
- Thermal Current (Ith): 10A.
- Rated Insulation Voltage (Ui): 500V.
- Withstand Voltage (Uimp): 2500V.
- Short Circuit Overload Protection: Fuse Externally 10A. (FF)
- Explosion Proof Contact Block: Optional
- Classification: EEx d IIC T6  
PTB 00 ATEX 1093X IIBExU 01 ATEX 1007X
- Contact Arrangement: 1 N/C 1 N/O or 2NC
- Rated Voltage: 250V a.c
- Rated Current: 4A a.c

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
142025	3m. 4 core Ex	1NC 1NO	
142028	3m. 4 core Ex	2NC	

# Guardian Line Standard Duty - Type GLS-SS Stainless Steel

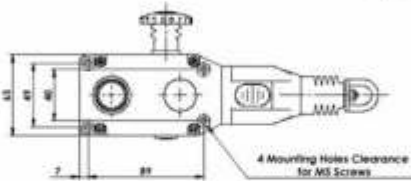
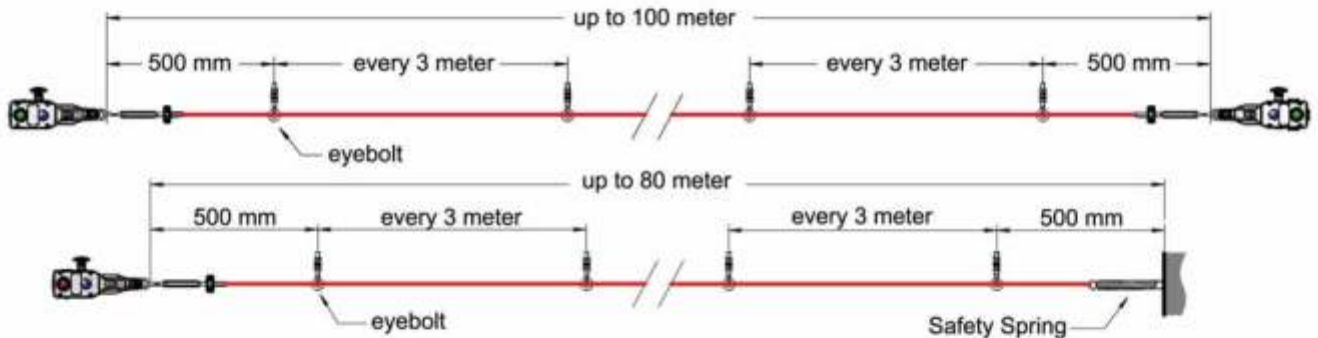
Protection up to 100 meters



The GLS-SS is a General Duty Safety Rope Pull switch designed to protect long conveyor lengths up to 100m. The Stainless Steel 316 housings are designed specifically to withstand the tough environments found in the Food and Pharmaceutical industries. The fixing holes are under the cover of the switch to prevent food trap areas. They are all purpose switches and will survive chemical and detergent washdown by providing all stainless steel parts and robust IP67 sealing by using integral bellows and gaskets.

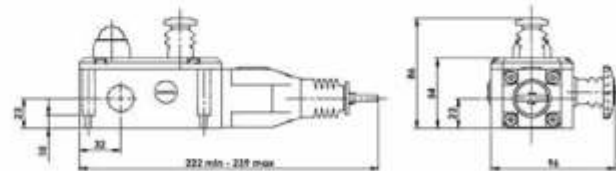
An easily seen bi-colour LED is available to show switch status from a distance and they have a choice of 3 pole, 4 pole or Explosion Proof contact blocks to ensure flexibility with all modern control applications.

Shorter rope spans up to 80m. can be achieved by using just one switch therefore making a cost effective solution and also reducing electrical wiring runs.



Guardian Line Standard Duty (GLS)

It is recommended when using a Safety Spring that a maximum of one corner pulley is used.



All Dimensions in mm



Pre-wired Ex versions

Sales Number	Conduit	Contacts	Fittings
144001	3 x M20	3NC 1NO	
144002	3 x 1/2" NPT	3NC 1NO	
144003	3 x M20	2NC 2NO	
144004	3 x 1/2" NPT	2NC 2NO	
144005	3 x M20	4NC	
144006	3 x 1/2" NPT	4NC	
144007	3 x M20	3NC 1NO	LED
144008	3 x 1/2" NPT	3NC 1NO	LED
144009	3 x M20	2NC 2NO	LED
144010	3 x 1/2" NPT	2NC 2NO	LED
144011	3 x M20	4NC	LED
144012	3 x 1/2" NPT	4NC	LED
144013	3 x M20	3NC 1NO	E-Stop
144014	3 x 1/2" NPT	3NC 1NO	E-Stop
144015	3 x M20	2NC 2NO	E-Stop
144016	3 x 1/2" NPT	2NC 2NO	E-Stop
144017	3 x M20	4NC	E-Stop
144018	3 x 1/2" NPT	4NC	E-Stop
144019	3 x M20	3NC 1NO	E-Stop & LED
144020	3 x 1/2" NPT	3NC 1NO	E-Stop & LED
144021	3 x M20	2NC 2NO	E-Stop & LED
144022	3 x 1/2" NPT	2NC 2NO	E-Stop & LED
144023	3 x M20	4NC	E-Stop & LED
144024	3 x 1/2" NPT	4NC	E-Stop & LED
144025	3m. 4 core Ex	1NC 1NO	
144026	3m. 4 core Ex	2NC	

- Standards: IEC 947-5-1 IEC947-5-5 EN 418  
UL508 BS 5304
- Approvals: cULus TÜV
- Enclosure / Cover: Stainless Steel 316
- External Parts: Stainless Steel
- IP Rating: IP67
- Rope Spans: 100m.
- Rope Tension device: IDEM Tensioner / Gripper – Quick Fixing
- Rope Type: 4.0 mm Outside Dia. Steel inner – PVC sheath
- Mounting: 4 x M5
- Mounting position: Any
- Conduit entries: 3 x M20 or 3 x 1/2" NPT by part number
- Mounting: M5 4.0 Nm
- Lid: T20 Torx M4 1.5 Nm
- Terminals: 1.0 Nm
- Ambient Temperature: -25C. 80 C.
- Vibration resistance: 10-500Hz 0.35mm
- Shock resistance: 15g 11ms
- Tension Force (typical mid setting): 130N.
- Typical Operating Force (Rope pulled): < 125N. < 300mm Deflection
- Mechanical Life: 1,000,000 operations
- Weight: 1750 g.
- Contact type: IEC 947-5-1 Double break Type Zb  
Snap Action up to 4NC (positive break)  
2NO (Auxiliary)
- Contact Material: Silver
- Termination: Clamp up to 2.5 sq. mm conductors
- Rating: Utilisation Category: AC15 A300
- Operational Rating: 240V. 3A.
- Thermal Current (Ith): 10A.
- Rated Insulation Voltage (UI): 500V.
- Withstand Voltage (Uimp): 2500V.
- Short Circuit Overload Protection: Fuse Externally 10A. (FF)
- Explosion Proof Contact Block: Optional
- Classification: EEx d IIC T6  
PTB 00 ATEX 1093X IBEu01 ATEX 1007X
- Contact Arrangement: 1 N/C 1 N/O or 2NC
- Rated Voltage: 250V a.c
- Rated Current: 4A a.c