Standard Duty Safety Rope Pull Switches

GLS and GLS-SS Series



Mount on Machines and Conveyors Which Cannot be Protected by Guards

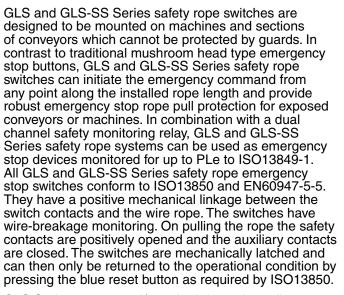
✓ Protect Conveyors Up to:

GLS Series:

80 m (262.5') Using Two Switches or 60 m (197') Using a Single Switch GLS-SS Series:

100 m (328') Using Two Switches or 80 m (262.5') Using a Single Switch

- Mushroom Type Emergency Stop Button
- ✓ Reset Button-Push to Reset Following Switch Activation by Rope Pull
- ✓ Wire-Breakage Monitoring



GLS Series are general/standard duty robust die-cast safety rope pull switch designed to protect conveyor lengths where protection is required up to 80 m (262.5') using two switches or up to 60 m (197') 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-color LED is also available to show switch status from a distance. Rugged internal sealing bellows means the GLS Series can be high pressure hosed and they are suitable for internal or external use.



The GLS-SS Series are general/standard duty stainless steel safety rope pull switches designed to protect long conveyor lengths up to 100 m (328'). The 316 SS housings are designed specifically to withstand the harsh environments found in the food and pharmaceutical industries. The fixing holes are under the cover of the switch to prevent food trap areas and will survive chemical and detergent washdown by providing all stainless steel parts and robust IP67 and IP69K sealing by using integral bellows and gaskets. An easily visible bi-color LED is available to show switch status from a distance. Shorter rope spans up to 80 m (262.5') can be achieved by using just one switch therefore making a cost effective solution and reducing electrical wiring runs.

Specifications

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

SAFETY CLASSIFICATION AND RELIABILITY DATA

Mechanical Reliability B10d: 1.5 x 10⁶ operations at 100 mA load 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 **PFHd:** <1.0 x 10⁻⁷

Proof Test Interval (Life): 21 years

MTTFd: 214 years Enclosure Material:

GLS Series: Die cast (painted yellow)

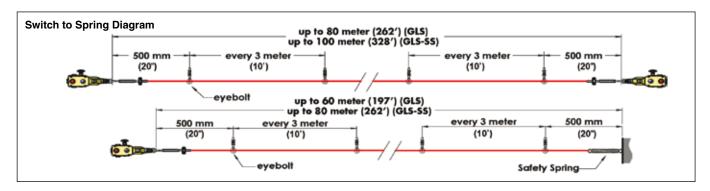
GLS-SS Series: 316 SS

IP Rating:

GLS Series: NEMA 6 (IP67)

GLS-SS Series: NEMA PW12 (IP67K), NEMA 6 (IP67)





Rope Span:

GLS: Up to 80 m (262.5') (2 switches), 60 m (197') (1 switch)

GLS-SS: Up to 100 m (328') (2 switches), 80 m (262.5')

(1 switch)

Rope Tension Device: Tensioner/gripper (quick fixing) Rope Type: 4.00 mm outside dia, steel inner, PVC sheath

Mounting: 4 x M5 Mounting Position: Any Conduit Entries: 3 x ½ NPT

Tongue Settings: Mounting M5 4.0 Nm, Lid T20 Torx M4 1.5

Nm, Terminals 1.0 Nm

Operating Ambient Temperature: -25 to 80°C (-13 to 176°F)

Vibration Resistance: 10 to 500 Hz, 0.35 mm

Shock Resistance: 11 ms, 15 g

Tension Force (Typical Mid Setting): 130N

Typical Operating Force (Rope pulled): <125N, <300 mm

Contact Type: EN60947-5-1, double break type Zb, snap

action 3 NC (positive break) 1 NO (auxiliary)

Contact Material: Silver

Termination: Clamp up to 2.5 mm² conductors

Rating:

GLS: Utilization category AC15

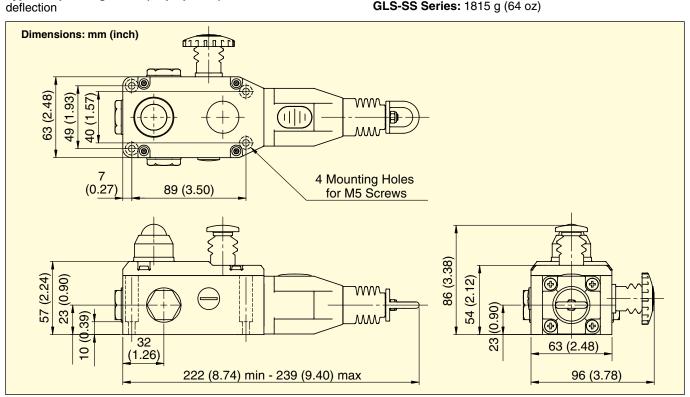
GLS-SS: Utilization category AC15, A300

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

Short Circuit Overload Protection: Fuse externally 10A (FF)

Weiaht:

GLS Series: 735 g (26 oz) **GLS-SS Series:** 1815 g (64 oz)





To Order								
Safety Rope Pull Switches-Up to 80 m (262.5') Runs (Switch-to-Switch), 60 m (197') (Switch-to-Spring)								
Model No.	Description	Material	Contacts	Conduit Entry	Fittings			
GLS-142051	Safety rope pull switch	Die Cast	3 NC 1 NO	3 x ½ NPT	_			
GLS-142075A	Safety rope pull switch	Die Cast	3 NC 1 NO	3 x ½ NPT	E-Stop, 24 Vdc LED			
GLS-142075B	Safety rope pull switch	Die Cast	3 NC 1 NO	3 x ½ NPT	E-Stop, 110 Vac LED			
Safety Rope Pull Switches-Up to 100 m (328') Runs (Switch-to-Switch), 80 m (262.5') (Switch-to-Spring)								
GLS-SS-144002	Safety rope pull switch	316 SS	3 NC 1 NO	3 x ½ NPT	_			
GLS-SS-144020A	Safety rope pull switch	316 SS	3 NC 1 NO	3 x ½ NPT	E-Stop, 24 Vdc LED			
GLS-SS-144020B	Safety rope pull switch	316 SS	3 NC 1 NO	3 x ½ NPT	E-Stop, 110 Vac LED			

Ordering Example: GLS-142075A safety rope pull switch with E-Stop and 24 Vdc LED, 140006 rope kit galvanized, 50 m (164.1'), 140043 stainless steel safety spring and one 140046 (8-pack) eyebolts, galvanized.

Rope Kits (Includes rope, eyebolts, tensioner/gripper, allen key)							
			Rope QL	Eyebolts 84 mm L (3.3")	Tensioner/ Gripper	Allen Key	
Model No.	Description	Material	(Quick Link)	Qty. Included in Kit			
140001	Rope kit	Galvanized	5 m (16.4')	3	1	1	
140002	Rope kit	Galvanized	10 m (32.8')	5	1	1	
140003	Rope kit	Galvanized	15 m (49.2')	7	1	1	
140004	Rope kit	Galvanized	20 m (65.6')	9	1	1	
140005	Rope kit	Galvanized	30 m (98.4')	12	1	1	
140006	Rope kit	Galvanized	50 m (164.1')	20	1	1	
140007	Rope kit	Galvanized	80 m (262.5')	30	2	2	
140008	Rope kit	Galvanized	100 m (328.1')	37	2	2	
140009	Rope kit	Galvanized	126 m (413.4')	45	2	2	
140010	Rope kit	Stainless steel	5 m (16.4')	3	1	1	
140011	Rope kit	Stainless steel	10 m (32.8')	5	1	1	
140012	Rope kit	Stainless steel	15 m (49.2')	7	1	1	
140013	Rope kit	Stainless steel	20 m (65.6')	9	1	1	
140014	Rope kit	Stainless steel	30 m (98.4')	12	1	1	
140015	Rope kit	Stainless steel	50 m (164.1')	20	1	1	
140016	Rope kit	Stainless steel	80 m (262.5')	30	1	1	
140017	Rope kit	Stainless steel	100 m (328.1')	37	1	1	
140018	Rope kit	Stainless steel	126 m (413.4')	45	1	1	

Accessories

Model No.	Description		
140019	Tensioner gripper, galvanized		
140020	Tensioner gripper, stainless steel		
140021	Pully (inside or outside), stainless steel		
140043	Safety spring, stainless steel, 220 mm (7.8") long		
140045	Eyebolt, stainless steel, 8-pack, 84 mm (3.3") long, thread length 51 mm (2.0") M8 x 1.25		
140046	Eyebolt, galvanized, 8-pack, 84 mm (3.3") long, thread length 51 mm (2.0") M8 x 1.25		
140121	316 SS gland ½ NPT		