Guardian Line Heavy Duty Type: GLHD-SS (Stainless Steel)

FEATURES:

PROTECTION UP TO 250 METRES (820 FEET)

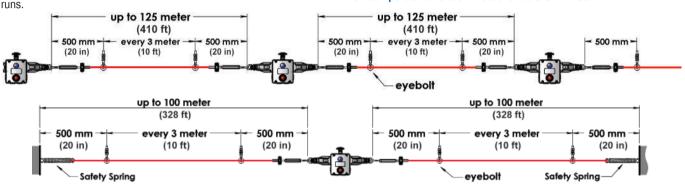
The GLHD-SS is a Heavy Duty Safety Rope Pull Switch designed to protect long conveyor lengths. The Stainless Steel 316 housings are designed specifically to withstand the tough environments found in the Food and Pharmaceutical industries. They will survive chemical and detergent washdown by providing all stainless steel parts and robust IP67 and IP69K sealing by using integral bellows and gaskets.

A bi-colour LED ensures switch status can be seen easily from a distance. They have 4NC 2NO contacts to ensure flexibility with all modern control applications and optional Explosion Proof contact blocks are available.

Shorter rope spans up to 200m can be achieved by using just one switch which makes a cost effective solution and also reducing electrical wiring runs.

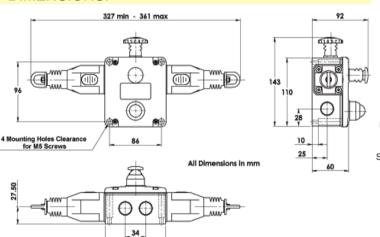


Low temperature version -40C available GLHD-SS-FZ



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.





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Pre-wired EX versions (see Explosion Proof section)

afety Classification and

Reliability Data: echanical Reliability B10d 1.5 x 10⁶ operations at 100mA load ISO13849-1 Up to PLe depending upon system architecture EN62061 Up to SIL3 depending upon system architecture

fety Data – Annual Usage 8 cycles per hour/24 hours per day/365 days

Proof Test Interval (Life) 21 years 214 years

Mounting Position

Enclosure/Cover Material Stainless Steel 316 External Parts Stainless Steel

IP Rating IP69K (NEMA PW12) IP67 (NEMA 6) Rope Span 250m Dual Head

UL508 ISO13850 ISO13849-1

Rope Tension Device IDEM Tensioner/Gripper (quick fixing) Rope Type 4.00mm outside dia. Steel inner - PVC sheath Mounting 4 x M5

4 x M20 or 4 x 1/2" NPT (by Sales Number) Conduit Entries **Tongue Settings** Mounting M5 4.0Nm Lid T20 Torx M4 1.5Nm

Terminals 1.0Nm -25C +80C (Cleaning 100C) Ambient Temperature Vibration Resistance 10-500Hz 0.35mm

Shock Resistance 11ms 15g Tension Force (typical mid setting) 130N Typical Operating Force (Rope pulled) <125N <300mm deflection Weight 2850g approx.

> Contact Type FN60947-5-1 double break type 7b Snap Action up to 4NC (positive break) 2NO (Auxiliary)

Contact Material Clamp up to 2.5mm² conductors Termination

Rating Utilisation category AC15 A300 Operational Rating 240V 3A Thermal Current (Ith) 10A Rated Insulation Voltage (U) 500V Withstand Voltage (Uimp) 2500V Short Circuit Overload Protection Fuse externally 10A(FF)

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





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IDEM recommend using our Stainless Steel 316 Gland with this switch.

SALES NUMBER	TYPE	CONDUIT	CONTACTS	FITTINGS			
145001	GLHD-SS	4 x M20	4NC 2NO	LED & E-Stop			
145002	GLHD-SS	4 x 1/2" NPT	4NC 2NO	LED & E-Stop			
145029	GLHD-SS	4 x M20	4NC 2NO	LED			
145030	GLHD-SS	4 x 1/2" NPT	4NC 2NO	LED			
145023	GLHD-SS	4 x M20	4NC 2NO	E-Stop			
145024	GLHD-SS	4 x 1/2" NPT	4NC 2NO	E-Stop			
145025	GLHD-SS	4 x M20	4NC 2NO				
145026	GLHD-SS	4 x 1/2" NPT	4NC 2NO				
145012	GLH-SS	Replacement Lid					
145013	GLH-SS	Replacement Lid with 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

Gold Plated Contacts available for low power circuits (5V 5mA). Add GC to Sales Number e.g. 145001-A-GC