

Guardian Line Heavy Duty - Type: GLHD

Protection up to 250 meters



The GLHD is a Heavy Duty Safety Rope Pull switch designed to protect long conveyor lengths. The die-cast housings are robust to survive indoor or outdoor use including washdown (IP67 rating).

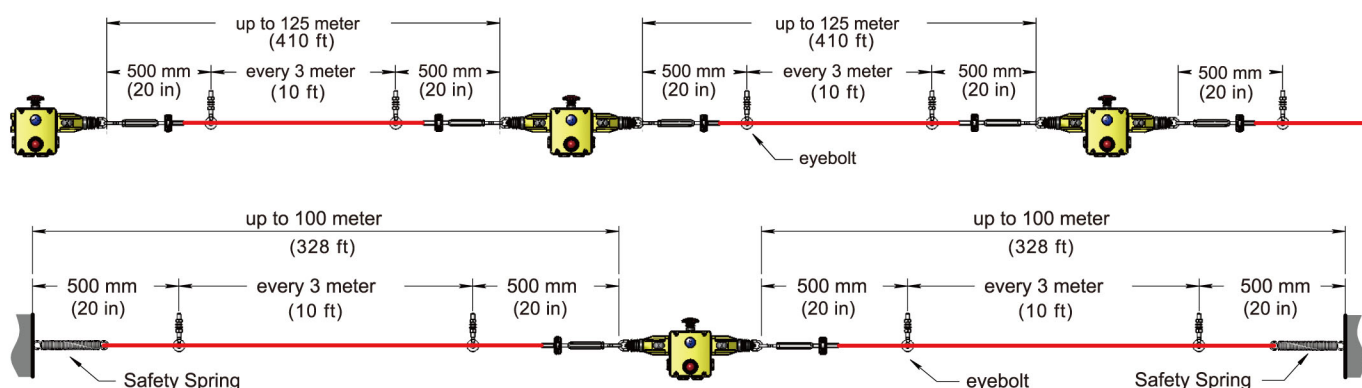
Lengths over 2 Km can be achieved with less than 20 switches.

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 therefore making a cost effective solution and also reducing electrical wiring runs.



Low Temperature -40C. versions available GLHD-FZ



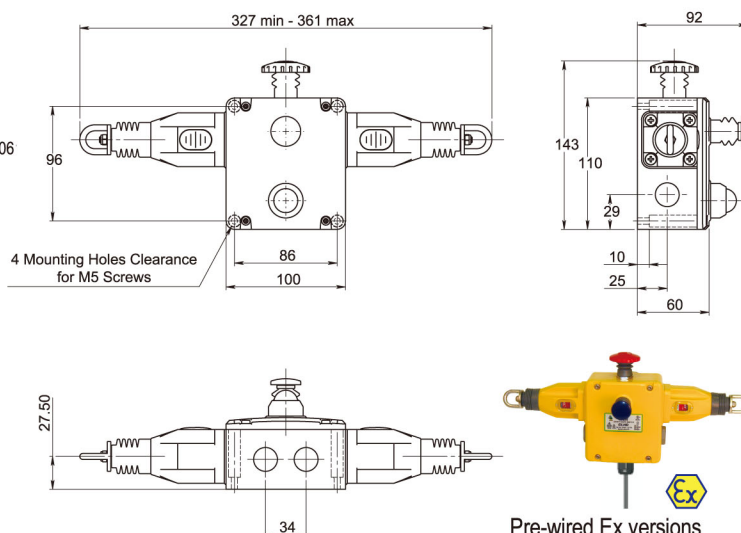
It is recommended when using a Safety Spring that a maximum of one corner pulley is used.

Standards: IEC 60947-5-1 IEC 60947-5-5 EN954-1 EN6206
UL508 ISO13850 ISO13849-1

Safety Classification and Reliability Data:

Mechanical Reliability B10d 1.5 x 10⁶ operations at 100mA load
EN 954-1 up to Category 4 with Safety Relay
ISO 13849-1 up to PLe depending upon system architecture
EN 62061 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 / Cover Die-Cast - Painted Yellow
IP Rating IP67 (NEMA 6)
Rope Spans Dual Head 250m.
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 4 x M20 or 4 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 1320 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)



Pre-wired Ex versions
(See Explosion proof section)

Sales Number	Type	Conduit	Contacts	Fittings
141001	GLHD	4 x M20	4NC 2NO	LED E Stop
141002	GLHD	4 x 1/2" NPT	4NC 2NO	LED E Stop
141029	GLHD	4 x M20	4NC 2NO	LED
141030	GLHD	4 x 1/2" NPT	4NC 2NO	LED
141039	GLHD	4 x M20	4NC 2NO	E Stop
141040	GLHD	4 x 1/2" NPT	4NC 2NO	E Stop
141041	GLHD	4 x M20	4NC 2NO	
141042	GLHD	4 x 1/2" NPT	4NC 2NO	
141012	GLHD	Replacement Lid		
141013	GLHD	Replacement Lid with LED		
For LED models add voltage code to Sales Number				
Steady Green / Flashing Red				
A - 24Vdc B - 110Vac C - 230V.ac				
Steady Green / Steady Red				
AS-24Vdc BS-110Vac CS-230V.ac				

Gold Plated Contacts available for low power circuits (5V. 5mA).
Add GC to Part Number e.g. 141001-A-GC

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