## Guardian Line Heavy Duty Type: GLHL & GLHR

## FEATURES: PROTECTION UP TO 125 METRES (410 FEET)

The GLHL/R is a robust die-cast Heavy Duty Safety Rope Pull Switch designed to protect long conveyor lengths where protection is required up to 125m using two switches or up to 100m using a single switch. The die-cast housings are robust to survive indoor or outdoor use.

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.

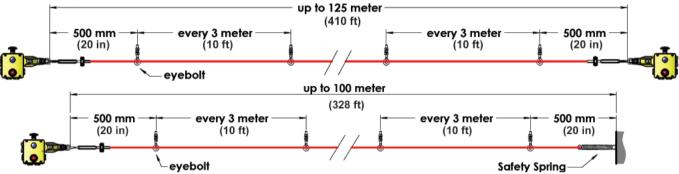
They can be used to complement the GLHD versions at each end of the rope span.



GLHL (Left Hand)

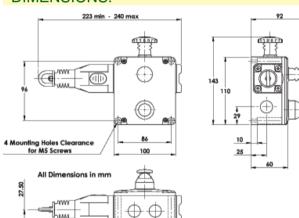
GLHR (Right Hand)

Low temperature versions -40C available GLHL-FZ and GLHR-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.

## **DIMENSIONS:**



TYPE	CONDUIT	CONTACTS	FITTINGS
GLHL	4 x M20	4NC 2NO	LED & E-Stop
GLHL	4 x 1/2" NPT	4NC 2NO	LED & E-Stop
GLHL	4 x M20	4NC 2NO	LED
GLHL	4 x 1/2" NPT	4NC 2NO	LED
GLHL	4 x M20	4NC 2NO	E-Stop
GLHL	4 x 1/2" NPT	4NC 2NO	E-Stop
GLHL	4 x M20	4NC 2NO	
GLHL	4 x 1/2" NPT	4NC 2NO	
GLHR	4 x M20	4NC 2NO	LED & E-Stop
GLHR	4 x 1/2" NPT	4NC 2NO	LED & E-Stop
GLHR	4 x M20	4NC 2NO	LED
GLHR	4 x 1/2" NPT	4NC 2NO	LED
GLHR	4 x M20	4NC 2NO	E-Stop
GLHR	4 x 1/2" NPT	4NC 2NO	E-Stop
GLHR	4 x M20	4NC 2NO	
GLHR	4 x 1/2" NPT	4NC 2NO	
GLH		Replacement Lid	
GLH	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			
	GLHL GLHL GLHL GLHL GLHL GLHL GLHL GLHR GLHR	GLHL 4 x M20 GLHL 4 x 1/2" NPT GLHL 4 x M20 GLHL 4 x 1/2" NPT GLHL 4 x M20 GLHL 4 x 1/2" NPT GLHL 4 x M20 GLHL 4 x 1/2" NPT GLHL 4 x M20 GLHL 4 x 1/2" NPT GLHR 4 x M20 GLHR 4 x 1/2" NPT GLHR 4 x M20 GLHR 4 x 1/2" NPT GLHR 4 x M20 GLHR 4 x 1/2" NPT GLHR 4 x M20 GLHR 4 x 1/2" NPT GLHR 4 x M20 GLHR 4 x 1/2" NPT GLHR 4 x M20 GLHR 7 x M20 GLHR 8 x M20 GLHR 9 x M20 GLH	GLHL 4 x M20 4NC 2NO GLHL 4 x 1/2" NPT 4NC 2NO GLHL 4 x M20 4NC 2NO GLHL 4 x 1/2" NPT 4NC 2NO GLHR 4 x M20 4NC 2NO GLHR 4 x M20 4NC 2NO GLHR 4 x M20 4NC 2NO GLHR 4 x 1/2" NPT 4NC 2NO GLHR 4 x 1/2" NPT 4NC 2NO GLHR 4 x 1/2" NPT 4NC 2NO GLHR 4 x M20 4NC 2NO GLHR 6 x M20 4NC 2NO GLHR 6 x M20 4NC 2NO GLHR 7 x M20 4NC 2NO GLHR 8 x M20 4NC 2NO GLHR 8 x M20 4NC 2NO GLHR 9 x M20 4NC 2NO GLHR 12" NPT 4NC 2NO GLH Replacement Lid with GLH Replacement Lid with For LED Models add voltage code to Sales Number sec 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. 141005-A-GC

AS - 24Vdc BS - 110Vac CS - 230Vac



UL508 ISO13850 ISO13849-1 Safety Classification and

Reliability Data:

Mechanical Reliability B10d 1.5 x 10<sup>6</sup> operations at 100mA 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<sup>-7</sup>
Proof Test Interval (Life) 21 years

MTTFd 214 years Enclosure/Cover Material Die-Cast (painted yellow)

IP Rating IP67 (NEMA 6)
Rope Span 125m

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

Mounting 4 x M5

Mounting Position Any

Conduit Entries 4 x M20 or 4

Conduit Entries 4 x M20 or 4 x 1/2" NPT (by Sales Number)
Tongue Settings Mounting M5 4.0Nm

Tongue Settings Mounting M5 4.0Nm
Lid T20 Torx M4 1.5Nm
Terminals 1.0Nm

Ambient Temperature -25C +80C
Vibration Resistance Shock Resistance Tension Force (typical mid setting) 130N

Typical Operating Force (Rope pulled) <125N <300mm deflection
Weight 1030g approx.

Contact Type EN60947-5-1 double break type Zb Snap Action up to 4NC (positive break)

2NO (Auxiliary)

Contact Material Silver

Termination Clamp up to 2.5mm² conductors
Rating Utilisation category AC15 A300
Operational Rating 240V 3A

Thermal Current (Ith) 10A Rated Insulation Voltage (U) 500V Withstand Voltage (Uimp) 2500

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.