## Guardian Line Heavy Duty Type: GLHD

## FEATURES:

PROTECTION UP TO 250 METRES (820 FEET) The GLHD is a Heavy Duty Safety Rope Pull Switch designed to

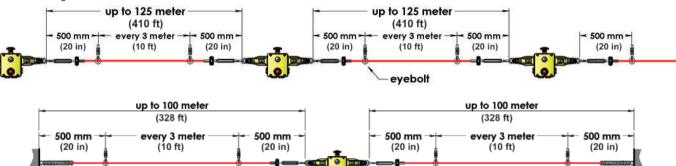
protect long conveyor lengths. The die-cast housings are robust to survive indoor or outdoor use including washdown (IP67 rating). Lengths over 2 Km can be achieved with less than 20 switches.

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.



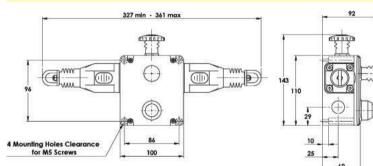




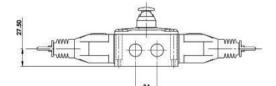
Safety Spring

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:**



All Dimensions in mm



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	GLH	Replacement Lid		
141013	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				
AS - 24Vdc BS - 110Vac CS - 230Vac				

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



evebolt

: EN60947-5-1 EN60947-5-5 EN62061 UL508 ISO13850 ISO13849-1

Safety Spring

Pre-wired EX versions

(see Explosion Proof section)

Safety Classification and Reliability Data:

Mechanical Reliability B10d ISO13849-1 EN62061 Safety Data - Annual Usage PFHd Proof Test Interval (Life) MTTFd Enclosure/Cover Material IP Rating Rope Span Rope Tension Device Rope Type Mounting Mounting Position Any Conduit Entries **Tongue Settings** Ambient Temperature Vibration Resistance Shock Resistance Tension Force (typical mid setting) 130N Typical Operating Force (Rope pulled) Mechanical Life Weight Contact Type Contact Material Silver Termination Rating

1.5 x 10<sup>6</sup> operations at 100mA load Up to PLe depending upon system architecture Up to SIL3 depending upon system architecture 8 cvcles per hour/24 hours per day/365 days <1.0 x 10 21 years 214 years Die-Cast (painted yellow) IP67 (NEMA 6) 250m Dual Head IDEM Tensioner/Gripper (quick fixing) 4.00mm outside dia. Steel inner - PVC sheath 4 x M5 4 x M20 or 4 x 1/2" NPT (by Sales Number) Mounting M5 4.0Nm Lid T20 Torx M4 1.5Nm Terminals 1.0Nm -25C +80C 10-500Hz 0.35mm 11ms 15g <125N <300mm deflection 1,000,000 operations 1350g approx. EN60947-5-1 double break type Zb Snap Action up to 4NC (positive break) 2NO (Auxiliary) Clamp up to 2.5mm<sup>2</sup> conductors 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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