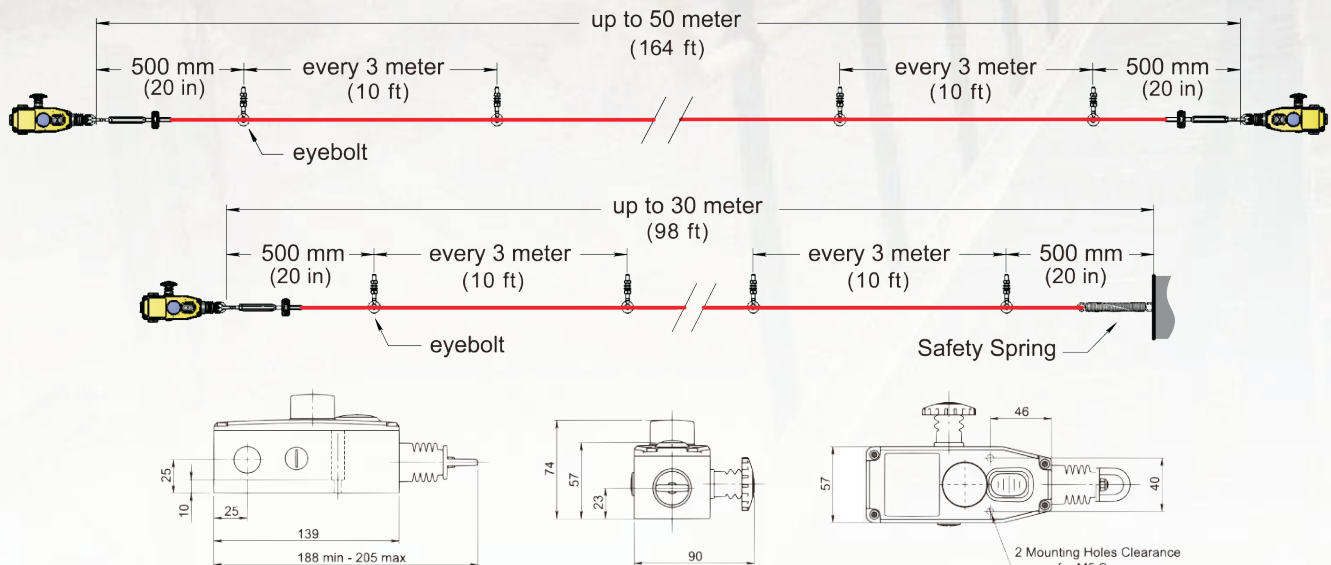




## Guardian Line Mini Duty - Type GLM

### Protection up to 50 meters

The GLM is a compact yet robust die-cast Mini Safety Rope Pull Switch designed to protect short conveyor lengths where protection is required up to 50m, using two switches or up to 30m, using a single switch. They provide a reliable, cost effective safety solution for conveyor systems and can be enhanced by adding an external mushroom type E Stop at the switch or bi-colour LED available to show switch status from a distance. They have a choice of 3 or 4 pole contacts to ensure flexibility with all modern control applications. Rugged intergral sealing bellows means they can be high pressure hosed



All Dimensions in mm  
Standards: IEC 60947-5-1 IEC 60947-5-5 EN954-1 EN62061  
UL508 ISO13850 ISO13849-1

#### Safety Classification and Reliability Data:

Mechanical Reliability B10d	1.5 x 10 <sup>6</sup> 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 <sup>-7</sup>
Proof Test Interval (Life)	21 years
MTTFd	214 years
Enclosure Material	Die Cast Painted Yellow
IP Rating	IP67 (NEMA 6)
Rope Span	up to 50m.
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	3 x M20 or 3 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 +80C.
Vibration resistance	10-500Hz 0.35mm
Shock resistance	15g 11ms
Tension Force (typical mid setting)	130N.
Typical Operating Force (Rope pulled)	< 125N. < 300mm Deflection
Weight	700g.
Contact type	IEC 947-5-1 Double break Type Zb Snap Action up to 4NC (positive break) 2NO (Auxiliary)
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)

Sales Number	Conduit	Contacts	Fittings
143001	M20	2NC 1NO	
143002	1/2" NPT	2NC 1NO	
143003	M20	3NC	
143004	1/2" NPT	3NC	
143005	M20	2NC 1NO	E Stop
143006	1/2" NPT	2NC 1NO	E Stop
143007	M20	3NC	E Stop
143008	1/2" NPT	3NC	E Stop
143050	M20	3NC 1NO	
143051	1/2" NPT	3NC 1NO	
143052	M20	2NC 2NO	
143053	1/2" NPT	2NC 2NO	
143054	M20	4NC	
143055	1/2" NPT	4NC	
143056	M20	3NC 1NO	E Stop
143057	1/2" NPT	3NC 1NO	E Stop
143058	M20	2NC 2NO	E Stop
143059	1/2" NPT	2NC 2NO	E Stop
143060	M20	4NC	E Stop
143061	1/2" NPT	4NC	E Stop
143062	M20	3NC 1NO	LED
143063	1/2" NPT	3NC 1NO	LED
143064	M20	2NC 2NO	LED
143065	1/2" NPT	2NC 2NO	LED
143066	M20	3NC 1NO	E Stop & LED
143067	1/2" NPT	3NC 1NO	E Stop & LED
143068	M20	2NC 2NO	E Stop & LED
143069	1/2" NPT	2NC 2NO	E Stop & LED
143009	Replacement Lid		
143010	Replacement Lid / LED		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. 143001-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.