

Guardian Line Mini Duty Type: GLM

FEATURES:

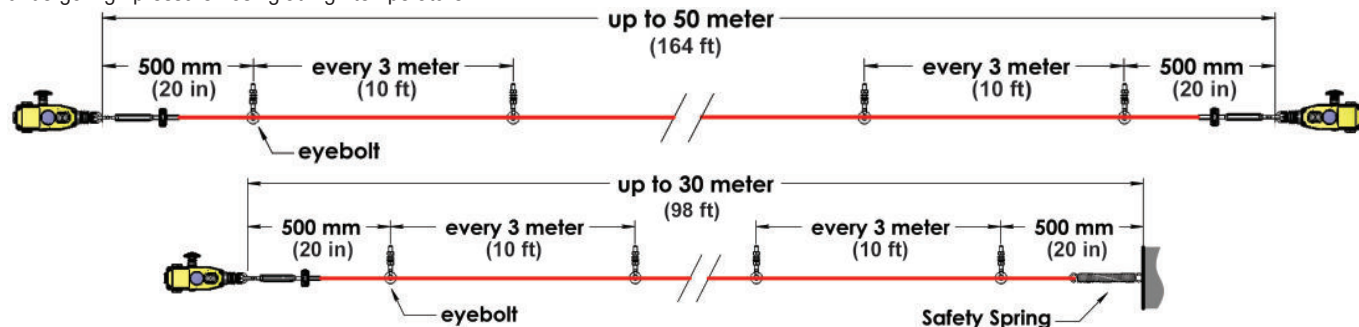
PROTECTION UP TO 50 METRES (164 FEET)

The GLM is a compact yet robust die-cast Mini Duty Safety Rope Pull Switch which has been designed to protect short conveyor lengths where protection is required up to 50m using two switches or up to 30m using just a single switch.

The GLM provides a reliable, cost-effective safety solution for conveyor systems and can be enhanced by adding an external mushroom type emergency stop at the switch or a bi-colour LED is available to show switch status from a distance.

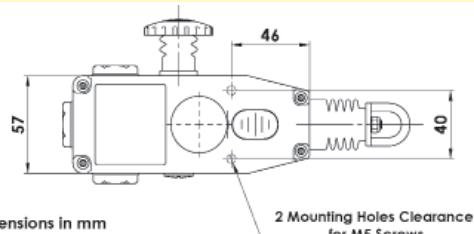
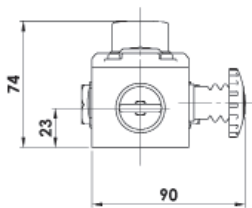
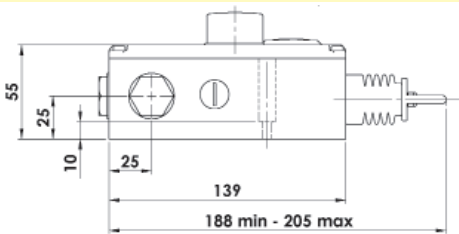
The GLM has a choice of 3 or 4 pole contacts to ensure flexibility with all modern control applications.

With the added benefit of rugged internal sealing bellows the GLM is able to undergo high pressure hosing at high temperature.



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

2 Mounting Holes Clearance for M5 Screws

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

Safety Classification and Reliability Data:

Mechanical Reliability B10d	1.5 x 10 ⁶ 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 ⁻⁷
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 (2 switches) 30m (1 switch)
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	3 x M20 or 3 x 1/2" NPT (by Sales Number)
Tongue Settings	Mounting M5 4.0Nm Lid T20 Torx M4 1.5Nm Terminals 1.0Nm
Ambient Temperature	-25C +80C
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	640g approx.
Contact Type	EN60947-5-1 double break type Zb Snap Action up to 4NC (positive break) 2NO (Auxiliary)
Termination	Clamp up to 2.5mm ² conductors
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)

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 see below
Steady Green/Flashing Red
A - 24Vdc B - 110Vac C - 230Vac
Steady Green/Steady Red
AS - 24Vdc BS - 110Vac CS - 230Vac

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

Gold Plated Contacts available for low power circuits (5V 5mA).
Add GC to Sales Number e.g. 143001-GC