

Guardian Line Mini Duty: GLM

FEATURES:

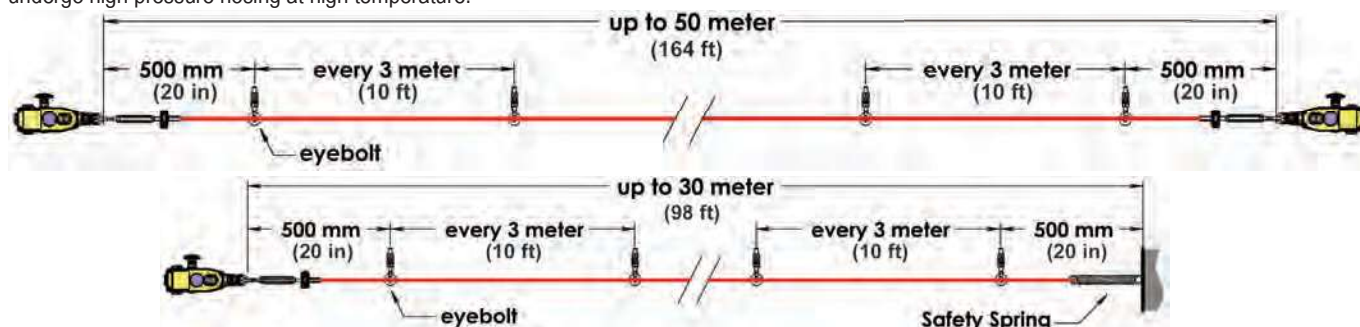
PROTECTION UP TO 50 METRES (164 FEET)

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.

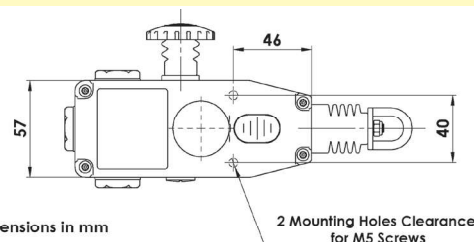
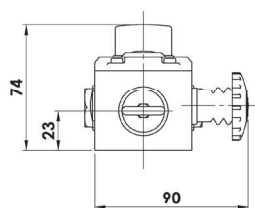
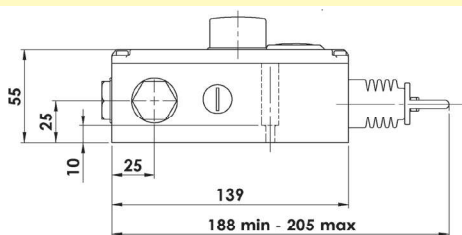
The GLM has a choice of 3 or 4 pole contacts to ensure flexibility with all modern control applications.

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

Standards: EN60947-5-1 EN60947-5-5 EN62061
UL 60947-5-1 ISO13850 ISO13849-1

Safety Classification and

Reliability Data:

Mechanical Reliability B10d 1.5 x 10⁶ 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
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
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 2.5mm² 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