Guardian Line Mini Duty Type: GLM

FEATURES:

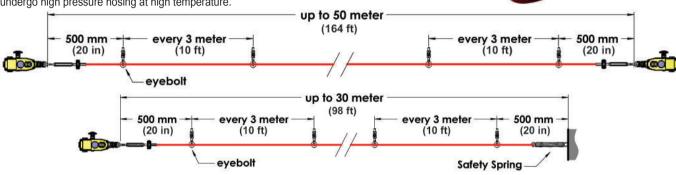
PROTECTION UP TO 50 METRES (164 FEET)

The GLM is a compact vet 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.

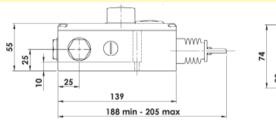
The GLM has a choice of 3 or 4 pole contacts to ensure flexibility with all modern control applications.

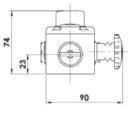
With the added benefit of rugged internal sealing bellows the GLM is able to undergo high pressure hosing at high temperature.

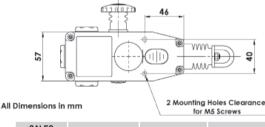


It is important that the first 500mm is not used as part of the active protection coverage. If protection is required in this first 500mm then it is recommended to use switches fitted with a mushroom type E-Stop button. IDEM also recommend when using a Safety Spring that a maximum of one corner pulley is used.

DIMENSIONS:







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

Mounting Mounting Position

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 10-500Hz 0.35mm Vibration Resistance Shock Resistance 11ms 15q Tension Force (typical mid setting) 130N

<125N <300mm deflection Typical Operating Force (Rope pulled) 640q approx. Weight Contact Type EN60947-5-1 double break type Zb

Snap Action up to 4NC (positive break) 2NO (Auxiliary) Clamp up to 2.5mm2 conductors Termination

Rating Utilisation category AC15 A300 240V 3A Operational Rating 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	Replacer	ment Lid	
143010	Replaceme	nt Lid/LED	LED
For LED Models add voltage code to Sales Number see below			
Steady Green/Flashing Red			
A - 24Vdc B - 110Vac C - 230Vac			
Stoady Groon/Stoady Pod			

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.