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IDEM GUARDIAN LINE STANDARD DUTY GLS

142056A-FZ
GLS M20 '3NC 1NO' LED 24V (-40° version)



- Protection up to 60 metres with one switch
- Protection up to 80 metres with two switches
- Emergency stop switch versions
- Duel colour Led option
- Special low temperature version (-40°C)

PRODUCT DESCRIPTION

The GLS is a General/Standard Duty robust die-cast Safety Rope Pull Switch designed to protect conveyor lengths where protection is required up to 80m using two switches or up to 60m using a single switch.
They provide a reliable general purpose safety solution for conveyors and offer a choice of fittings depending upon the application.
They can be supplied with a mushroom type Emergency Stop button which can be fitted to the side of the switch to offer an extra traditional Emergency Stop function close to the switch, or can be fitted later after installation without any extra wiring.
A bi-colour LED is also available to show switch status from a distance and they have a choice of 3 pole, 4 pole or Explosion Proof contact blocks to ensure flexibility with all modern control applications.
Rugged internal sealing bellows means the GLS can be high pressure hosed and choice of materials makes them suitable for internal or external use.

TECHNICAL DATA

Annual usage	8 cycles per hour/24 hours per day/365 days
Approvals	EN60947-5-5, ISO 13850, ISO 13849-1, EN62061, EN60947-5-1, UL 508
Conduit entry	3 x M20
Contact type	EN60947-5-1 double break type Zb. Snap action up to 4NC (positive break) 2NO (auxiliary)
Contacts	3NC 1NO
Fittings	LED
Housing material	Die cast metal
Integrated emergency stop button	No
Integrated LED indication	Yes
IP class	IP67
LED indication	Steady green/Flashing red

LED supply voltage	24Vdc
Material contacts	Silver
Mechanical reliability B10d	1.5 x 10^6 operations at 100mA load
Mounting	4 x M5
MTTFd	214 years
Operating temperature	-40°C +80°C
PFHd	<1.0 x 10^{-7}
Rope span	Up to 80m (2 switches) 60m (1 switch)
Rope tension device	IDEM tensioner/gripper (quick fixing)
Rope type	4.00mm outside diameter. Steel inner - PVC sheath
Short circuit overload protection	Fuse externally 10A(FF)
Tension force (typical mid setting)	130 N
Termination	Clamp up to 2.5mm² conductors
Thermal current (Ith)	10 A
Typical operating force (rope pulled)	<125N <300mm deflection
Weight	735 g

