



Heavy Duty Emergency Stop – Type GLES Guardian Line E Stop Operating Instructions

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Type: GLES - SS Type: GLES - SS - Ex

Application:

GLES Emergency Stop switches are used to provide a hand operated latching Emergency Stop command.

In combination with any dual channel safety-monitoring controller they can be used as emergency stop devices and monitored for up to Category 4 to EN 954-1.

Operation:

All GLES Emergency stop switches conform to European Standards ISO13850 (formerly) EN 418 and IEC 60947-5-5. They have a positive mechanical linkage between the switch contacts and the Mushroom Button. After operation by depressing the Red Mushroom button, they require to be re-set (safety contacts closed, auxiliary contacts open) by pressing the blue reset button on the switch cover.

Installation:

Installation of all GLES must be in accordance with a risk assessment for the individual application. Installation must only be carried out by competent personnel and in accordance with these instructions.

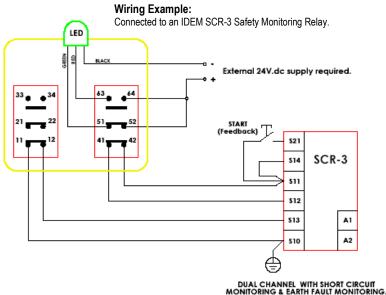
M5 mounting bolts must be used to fix the switches. Tightening torque for mounting bolts to ensure reliable fixing is 4 Nm. Tightening torque for the lid screws, conduit entry plugs and cable glands must be 1.5 Nm to ensure IP seal. Only use the correct size gland for the conduit entry and cable outside diameter.

During installation / commissioning check the operation of the switch and the control circuits by depressing the Red Mushroom Button and resetting each switch by depressing the Blue Reset button. Ensure each time that the machine stop is activated according to the risk assessment for the machine.

Maintenance:

Every 3 months (minimum – or as directed by the risk assessment for the application):

Isolate power and remove cover. Check screw terminal tightness and check for signs of moisture ingress. Never attempt to repair any switch.



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LED Flashing Red -- Stopped LED Steady Green -- Able to Start

Indicator Lamps (24V.dc or 110V or 230V).

When power is applied to the Red wire the lamp will illuminate Red and Flash.

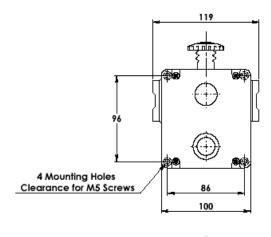
When power is applied to the Green Wire, the Lamp will illuminate Green.

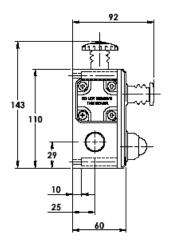
Black is 0V.dc. or Neutral

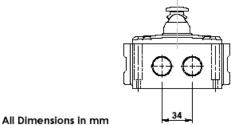


Wiring Circuits Explosion Proof versions (Switch Reset)

Heavy Duty Emergency Stop – Type GLES







HEAVY DUTY EMERGENCY STOP

Standards: Enclosure / Cover IEC 947-5-1 IEC947-5-5 EN 418 UL508

IP Rating

Die-Cast - Painted Yellow or Stainless Steel 316

Mounting Mounting position

4 x M5 Any

Conduit entries Torque settings

3 x M20 or 3 x 1/2 " NPT by part number

Mounting M5 4.0 Nm

Lid Torx T20 M4 1.5 Nm Terminals 1.0 Nm

Ambient Temperature -25C. 80 C.

-40C. 80C. FZ versions 10-500Hz 0.35mm

Vibration resistance Shock resistance Mechanical Life

15g 11ms 1,000,000 operations

1000 g. Yellow 2000g. S/Steel IEC 60947-5-1 Double break Type Zb Approx. weight

up to 4NC (positive break) up to 2NO (Auxiliary)

Contact Material

Termination Rating

Utilisation Category: AC15 A300

Operational Rating Thermal Current (Ith) Rated Insulation Voltage (Ui) Withstand Voltage (Uimp)

Short Circuit Overload Protection

Clamp up to 2.5 sq. mm conductors

240V. 3A. 10A. 500V. 2500V.

Fuse Externally 10A. (F)



Exd IIC T6 (-20 \leq Ta \leq + 60C) Gb



Exd tb IIIC T85C (-20 \leq Ta \leq + 60C) Db

| Sales Number | Туре | Conduit Entry | Contacts |
|---|------------|---------------|----------|
| 146001 | GLES | M20 | 4NC 2NO |
| 146002 | GLES | 1/2" NPT | 4NC 2NO |
| 146003 | GLES-Ex | 3m. 4 core Ex | 1NC 1NO |
| 146004 | GLES-Ex | 3m. 8 core Ex | 3NC 1NO |
| 146005 | GLES-Ex | 3m. 4 core Ex | 2NC |
| 146006 | GLES-Ex | 3m. 8 core Ex | 2NC 2NO |
| 147001 | GLES-SS | M20 | 4NC 2NO |
| 147002 | GLES-SS | 1/2" NPT | 4NC 2NO |
| 147003 | GLES-SS-Ex | 3m. 4 core Ex | 1NC 1NO |
| 147004 | GLES-SS-Ex | 3m. 8 core Ex | 3NC 1NO |
| 147005 | GLES-SS-Ex | 3m. 4 core Ex | 2NC |
| 147006 | GLES-SS-Ex | 3m. 8 core Ex | 2NC 2NO |
| * For LED models add voltage code to Sales Number | | | |

A - 24Vdc , B -110Vac , C - 230V.ac (146001+24v LED =146001-A)

Gold Plated Contacts available for low power circuits (5V. 5mA). Add GC to Part Number e.g. 146001-A-GC