FEATURES:
Grab Wire Auto-Reset Rope Switches are mounted on machines and sections of plant conveyors to initiate a momentary control signal command from any point along the installed rope length. Pulling the rope causes instant tripping of the control circuit contacts. Ideal for normal stop circuits where manual resetting of the switch is not required. This switch cannot be used in safety applications, it is only to be used for indication purposes.

Rope Pull operated Auto Reset- Stop Switch

APPLICATION:
The switches have a positive mechanical linkage between the switch contacts and the wire rope as per EN60947-5-1. The switches are brought into the operational condition by pre-tensioning the rope by use of a tensioner device which clamps the rope and then hooks to the switch eyebolts. Correct tension can be observed by viewing the tension indicator on the switch housing. Once tensioned the switch contact blocks are set to the operational condition. i.e. Signal Contacts Closed - Auxiliary Contacts Open.

All of the switches have wire breakage monitoring. On pulling or breakage (loss of tension) of the rope, the normally closed Signal Contacts are opened and the Auxiliary Contacts are closed. The switches will be returned to the operational condition as soon as the rope returns to the set position.

Gold Plated Contacts available for low power circuits (5V 5mA).
Add GC to Sales Number e.g. 142498-GC
Grab Wire Auto-Reset Trip Switch Type: GLS-SS-AR

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**Explosion Proof version:**

Zones 1,2,21,22

**DIMENSIONS:**

**Mechanical Features:**
- Enclosure/Cover Material: Die-Cast (painted yellow) or Stainless Steel 316
- IP Rating: IP69K
- Rope Span: Up to 80m
- 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: -25°C to +80°C
- Vibration Resistance: 10-500Hz 0.35mm
- Shock Resistance: 11ms 15g
- Tension Force (typical mid setting): 130N
- Typical Operating Force (Rope pulled): <125N =300mm deflection
- Mechanical Life: 1,000,000 operations
- Approx. Weight: 1780g

**Electrical Features:**
- Contact Type: EN60947-5-1 double break type Zb
- Snap Action up to 2NC + 1NO (Auxiliary)
- Contact Material: Silver
- Termination Clamp up to 2.5mm² conductors
- Utilisation category: AC15
- Operational Rating: 240V 3A
- Thermal Current (ltl): 10A
- Rated Insulation Voltage (Uimp): 500V
- Withstand Voltage (Uimp): 2500V
- Short Circuit Overload Protection: Fuse externally 10A (FF)

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

**Standards:**
- EN60947-5-1
- EN60947-5-5
- EN62061
- UL508
- ISO13849-1
- Up to PLe depending upon system architecture
- Up to SIL3 depending upon system architecture
- 8 cycles per hour/24 hours per day/365 days
- <1.0 x 10⁻⁷ operations at 100mA load
- Proof Test Interval (Life): 21 years
- 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
- PFHd <1.0 x 10⁻⁷
- Proof Test Interval (Life): 21 years
- MTTFd: 214 years
- ATEX Classification (EX Versions):
  - Ex tb IIIC T85°C (-20°C ≤ Ta ≤ +60°C) Db
  - Ex db IIIC T6 (-20°C ≤ Ta ≤ +60°C) Gb
- Rated Voltage: 250Vac
- Rated Current: 4Aac
- Cable Length: 3m pre-wired (EX versions)

**Gold Plated Contacts available for low power circuits (5V 5mA). Add GC to Sales Number e.g. 142498-GC**

**SALES NUMBER TYPE CONDUIT CONTACTS FITTINGS**

<table>
<thead>
<tr>
<th>Sales Number</th>
<th>Type</th>
<th>Conduit</th>
<th>Contacts</th>
<th>Fittings</th>
</tr>
</thead>
<tbody>
<tr>
<td>144498</td>
<td>GLS-SS-AR</td>
<td>3 x M20</td>
<td>2NC 1NO</td>
<td></td>
</tr>
<tr>
<td>144499</td>
<td>GLS-SS-AR</td>
<td>3 x 1/2” NPT</td>
<td>2NC 1NO</td>
<td>Pre-Wired 3m</td>
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<tr>
<td>144498</td>
<td>GLS-SS-AR</td>
<td>EX</td>
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