Grab Wire Auto-Reset Trip Switch Type: GLS-SS-AR

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 is not an emergency stop, it is a "trip" switch with automatic reset.

Rope Pull operated Auto Reset-Stop Switch



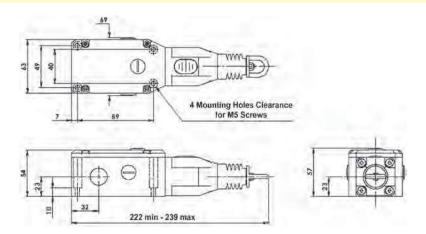
APPLICATION:

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.



DIMENSIONS:



Mechanical Features:

Enclosure/Cover Material IP Rating Rope Span

Rope Tension Device Rope Type Mounting Mounting Position

Conduit Entries
Tongue Settings

Ambient Temperature
Vibration Resistance
Shock Resistance
Tension Force (typical mid setting)
Typical Operating Force (Rope pulled)
Mechanical Life
Approx.Weight
Electrical Features:

Contact Type

Contact Material
Termination
Rating
Operational Rating
Thermal Current (Ith)
Rated Insulation Voltage (U)
Withstand Voltage (Uimp)
Short Circuit Overload Protection

Die-Cast (painted yellow) or Stainless Steel 316 IP69K

Up to 80m

IDEM Tensioner/Gripper (quick fixing)

4.00mm outside dia. Steel inner - PVC sheath

Any

ntries 3 x M20 or 3 x 1/2" NPT (by Sales Number)
Mounting M5 4.0Nm

Lid T20 Torx M4 1.5Nm Terminals 1.0Nm

-25C +80C 10-500Hz 0.35mm 11ms 15g

130N <125N <300mm deflection 1,000,000 operations

1,000,0 1780g

EN60947-5-1 double break type Zb Snap Action up to 2NC + 1NO (Auxiliary)

terial Silver
ation Clamp up to 2.5mm² conductors
Utilisation category AC15
ating 240V 3A
t (tth) 10A
e (U) 500V
Jimp) 2500V

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

UL 60947-5-1 ISO13849-1

Safety Classification and Reliability Data:

Mechanical Reliability B10d 1.5 x 10⁶ operations at 100mA load

ATEX Classification (EX Versions) Exd IIC T6 (-20 \le Ta \le +60C) Gb Ex tb IIIC T85C (-20 \le Ta \le +60C) Db

Rated Voltage 250Vac Rated Current 4Aac

Cable Length 3m pre-wired (EX versions)

SALES NUMBER	TYPE	CONDUIT	CONTACTS	FITTINGS
144498	GLS-SS-AR	3 x M20	2NC 1NO	
144499	GLS-SS-AR	3 x 1/2" NPT	2NC 1NO	
144496	GLS-SS-AR	EX	1NC 1NO	Pre-Wired 3m
144497	GLS-SS-AR	EX	2NC	Pre-Wired 3m

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