Grab Wire Auto-Reset Trip Switch Type: GLS-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



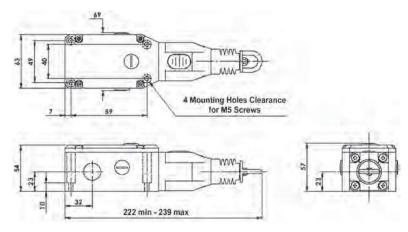
APPLICATION:

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 Die-Cast (painted yellow)

IP Rating IP67 Rope Span Up to 80m

IDEM Tensioner/Gripper (quick fixing) Rope Tension Device 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

Clamp up to 2.5mm² conductors

Utilisation category AC15

Lid T20 Torx M4 1.5Nm Terminals 1.0Nm

15g

Ambient Temperature -25C +80C Vibration Resistance 10-500Hz 0.35mm Shock Resistance 11ms Tension Force (typical mid setting) 130N

<125N <300mm deflection Typical Operating Force (Rope pulled) 1,000,000 operations Mechanical Life Approx.Weight

Electrical Features: Contact Type

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

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

240V 3A 10A 500V 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. 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 Rated Current 4Aac

3m pre-wired (EX versions) Cable Length

SALES NUMBER	TYPE	CONDUIT	CONTACTS	FITTINGS
142498	GLS-AR	3 x M20	2NC 1NO	
142499	GLS-AR	3 x 1/2" NPT	2NC 1NO	
142496	GLS-AR	EX	1NC 1NO	Pre-Wired 3m
142497	GLS-AR	EX	2NC	Pre-Wired 3m