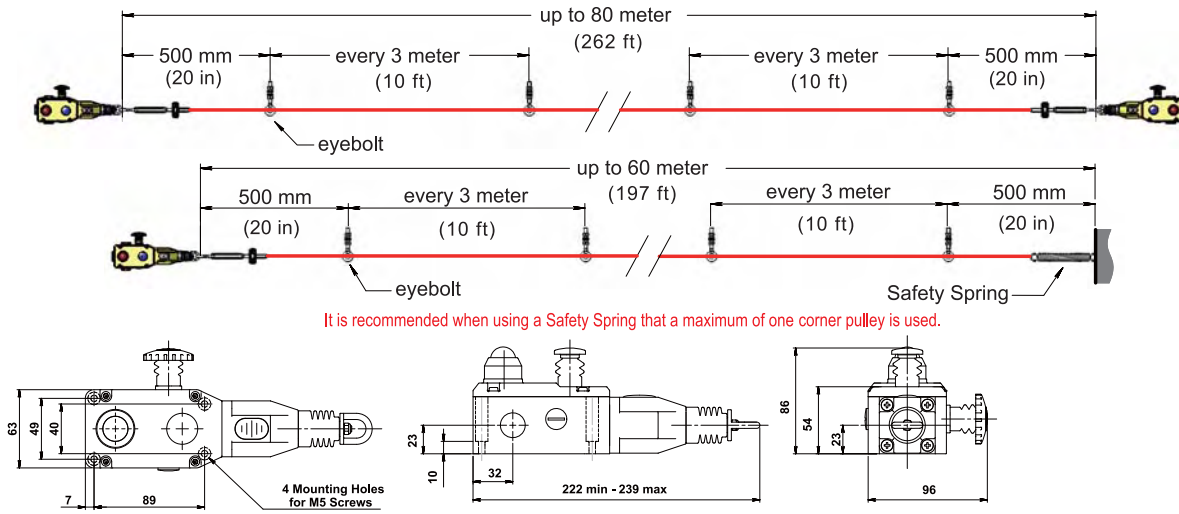


Line Strong 2 Standard duty switches

Protection up to 80 meters

Line Strong 2 is a General 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-color LED is available to show switch status from a distance and they have 4 pole contact blocks to ensure flexibility with all modern control applications. Rugged integral sealing bellows means they can be high pressure hosed and the choice of materials makes them suitable for inside or outside use.



It is recommended when using a Safety Spring that a maximum of one corner pulley is used.

Standards: IEC 947-5-1 IEC947-5-5 EN954-1 EN62061
UL508 ISO13850 ISO13849-1

Safety Classification and Reliability Data:

Mechanical Reliability B10d	1.5 x 10 ⁶ operations at 100mA load
EN 954-1	up to Category 4 with Safety Relay
ISO 13849-1	up to PLe depending upon system architecture
EN 62061	up to SIL3 depending upon system architecture
Safety Data - Annual Usage	8 cycles per hour / 24 hours per day / 365 days
PFDd	<1.0 x 10 ⁻⁷
Proof Test Interval (Life)	21 years
MTTFd	214 years
Enclosure / Cover	Die-Cast - Painted Yellow
External Parts	Stainless Steel
IP Rating	IP67 (NEMA 6)
Rope Spans	Up to 80m.
Rope Tension device	Tensioner / Gripper - Quick Fixing
Rope Type:	4.0 mm 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 part number
Torque settings	Mounting M5 4.0 Nm Lid T20 Torx M4 1.5 Nm Terminals 1.0 Nm
Ambient Temperature	-25C +80 C.
Vibration resistance	10-500Hz 0.35mm
Shock resistance	15g 11ms
Tension Force (typical mid setting)	130N.
Typical Operating Force (Rope pulled)	< 125N. < 300mm Deflection
Weight	820 g.
Contact type	IEC 947-5-1 Double break Type Zb Snap Action up to 2NC (positive break) 2NO (Auxiliary)
Contact Material	Silver
Termination	Clamp up to 2.5 sq. mm conductors
Rating	Utilisation Category: AC15
Operational Rating	240V. 3A.
Thermal Current (Ith)	10A.
Rated Insulation Voltage (Ui)	500V.
Withstand Voltage (Uimp)	2500V.
Short Circuit Overload Protection	Fuse Externally 10A. (FF)

Line Strong 2

2TLA050202R0030	LineStrong2, 2NC/2NO, M20
2TLA050202R1030	LineStrong2, 2NC/2NO, NPT
2TLA050202R0232	LineStrong2, 2NC/2NO, M20 LED 24VDC
2TLA050202R1232	LineStrong2, 2NC/2NO, NPT LED 24VDC
2TLA050202R0233	LineStrong2, 2NC/2NO, M20 LED 110VAC
2TLA050202R1233	LineStrong2, 2NC/2NO, NPT LED 110VAC
2TLA050202R0234	LineStrong2, 2NC/2NO, M20 LED 230VAC
2TLA050202R1234	LineStrong2, 2NC/2NO, NPT LED 230VAC
2TLA050202R0130	LineStrong2, 2NC/2NO, M20, ESTOP
2TLA050202R1130	LineStrong2, 2NC/2NO, NPT ESTOP
2TLA050202R0332	LineStrong2, 2NC/2NO, M20 ESTOP/LED 24VDC
2TLA050202R1332	LineStrong2, 2NC/2NO, NPT ESTOP/LED 24VDC
2TLA050202R0333	LineStrong2, 2NC/2NO, M20 ESTOP/LED 110VAC
2TLA050202R1333	LineStrong2, 2NC/2NO, NPT ESTOP/LED 110VAC
2TLA050202R0334	LineStrong2, 2NC/2NO, M20 ESTOP/LED 230VAC
2TLA050202R1334	LineStrong2, 2NC/2NO, NPT ESTOP/LED 230VAC

For all ABB Jokab Safety Rope Switches, the normally closed (NC) circuits are closed when the system is tensioned correctly and the switch has been reset.