

Line Strong 1 Mini-duty switches

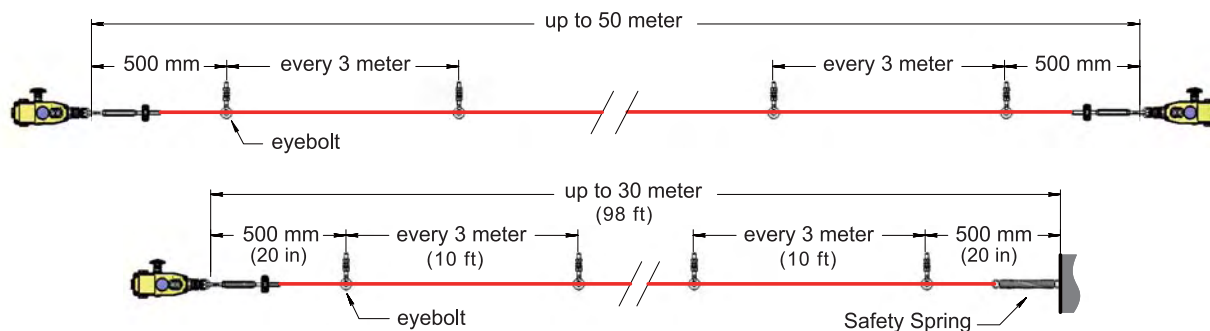
Protection up to 50 meters



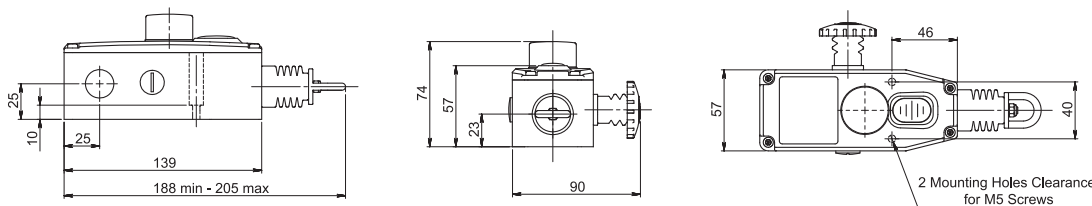
Line Strong 1 is a compact, yet robust die-cast Mini Duty SafetyReop Pull switch designed to protect short conveyor lengths where protection is required up to 50m using two switches or up to 30m using a single switch.

They provide reliable, cost effective safety solutions for conveyor systems and can be enhanced by adding external mushroom Type E Stope at the switch or bi-color LED available to show switch status from a distance.

They have 4 pole contact to ensure flexibility with all modern control applications. Rugged integral sealing bellows means they can be high pressure hosed.



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



All Dimensions in mm

Line Strong 1

| | |
|-----------------|--|
| 2TLA050200R0030 | LineStrong1, 2NC/2NO, M20 |
| 2TLA050200R1030 | LineStrong1, 2NC/2NO, NPT |
| 2TLA050200R0130 | LineStrong1, 2NC/2NO, M20, ESTOP |
| 2TLA050200R1130 | LineStrong1, 2NC/2NO, NPT ESTOP |
| 2TLA050200R0232 | LineStrong1, 2NC/2NO, M20 LED 24VDC |
| 2TLA050200R1232 | LineStrong1, 2NC/2NO, NPT LED 24VDC |
| 2TLA050200R0233 | LineStrong1, 2NC/2NO, M20 LED 110VAC |
| 2TLA050200R1233 | LineStrong1, 2NC/2NO, NPT LED 110VAC |
| 2TLA050200R0234 | LineStrong1, 2NC/2NO, M20 LED 230VAC |
| 2TLA050200R1234 | LineStrong1, 2NC/2NO, NPT LED 230VAC |
| 2TLA050200R0332 | LineStrong1, 2NC/2NO, M20 ESTOP/LED 24VDC |
| 2TLA050200R1332 | LineStrong1, 2NC/2NO, NPT ESTOP/LED 24VDC |
| 2TLA050200R0333 | LineStrong1, 2NC/2NO, M20 ESTOP/LED 110VAC |
| 2TLA050200R1333 | LineStrong1, 2NC/2NO, NPT ESTOP/LED 110VAC |
| 2TLA050200R0334 | LineStrong1, 2NC/2NO, M20 ESTOP/LED 230VAC |
| 2TLA050200R1334 | LineStrong1, 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.

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 |
| PfHd | <1.0 x 10 ⁻⁷ |
| Proof Test Interval (Life) | 21 years |
| MTTFd | 214 years |
| Enclosure Material | Die Cast Painted Yellow |
| IP Rating | IP67 (NEMA 6) |
| Rope Span | up to 50m. |
| 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 +80C. |
| 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 | 700g. |
| Contact type | IEC 947-5-1 Double break Type Zb Snap Action up to 2NC (Positive break) 2NO (Auxiliary) |
| Termination | Clamp up to 2.5 sq. mm conductors |
| Rating | Utilisation Category: AC15 A300 |
| 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) |