## Line Strong 1 Mini-duty switches

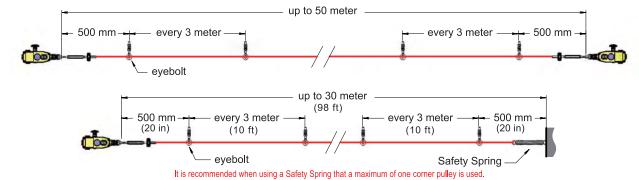
## Protection up to 50 meters

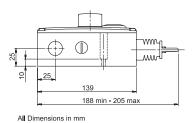
Line Strong 1 is a compact, yet robust die-cast Mini Duty SafetyReop Pull switch designed to protect short conveyor lengths where protection is required up to 50m using two switches or up to 30m using a single switch

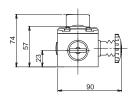
They provide reliable, cost effective safety solutions for conveyor systems and can be enhanced by adding external mushroom Type E Stope at the switch or bi-color LED available to show switch status from a distance

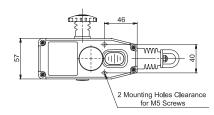
They have 4 pole contact to ensure flexibility with all modern control applications. Rugged integral sealing bellows means they can be high pressure hosed.











Line Strong 1

2TLA050200R0030 LineStrong1, 2NC/2NO, M20 LineStrong1, 2NC/2NO, NPT 2TLA050200R1030 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.

Safety Classification and Reliability Data:

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Mechanical Reliability B10d 1
EN 954-1 u
ISO 13849-1 u

EN 62061

Standards:

Safety Data - Annual Usage
PFHd
Proof Test Interval (Life)
MTTFd
Enclosure Material

IP Rating Rope Span Rope Tension device Rope Type: Mounting Mounting position Conduit entries

Torque settings

Ambient Temperature
Vibration resistance
Shock resistance
Tension Force (typical mid setting)

Typical Operating Force (Rope pulled) Weight Contact type 130N.

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

 IEC 947-5-1
 IEC947-5-5
 EN954-1
 EN62061

 UL508
 ISO13850
 ISO13849-1

1.5 x 10<sup>6</sup> operations at 100mA load up to Category 4 with Safety Relay

up to Category 4 with Safety Relay 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 21 years

Die Cast Painted Yellow IP67 (NEMA 6) up to 50m. Tensioner / Gripper – Quick Fixing

4.0 mm Outside Dia. Steel inner – PVC sheath 4 x M5 Any 3 x M20 or 3 x ½ " NPT by part number

3 x M20 or 3 x ½ "NPT by part number Mounting M5 4.0 Nm Lid T20 Torx M4 1.5 Nm Terminals 1.0 Nm -25C +80C. 10-500Hz 0.35mm 15g 11ms

< 125N. < 300mm Deflection 700g. IEC 947-5-1 Double break Type Zb Snap Action up to 2NC (Positive break)

2NO (Auxiliary)
Clamp up to 2.5 sq. mm conductors
Utilisation Category: AC15 A300
240V. 3A.
10A.
500V.
2500V.
Fuse Externally 10A. (FF)