

# Line Strong 3L and 3R Heavy duty switches

## Protection up to 125 meters



The Line Strong 3L/R is a robust die-cast Heavy Duty Safety Rope Pull switch designed to protect long conveyor lengths where protection is required up to 125m using two switches or up to 100m using a single switch.

The die-cast housings are robust to survive indoor or outdoor use.

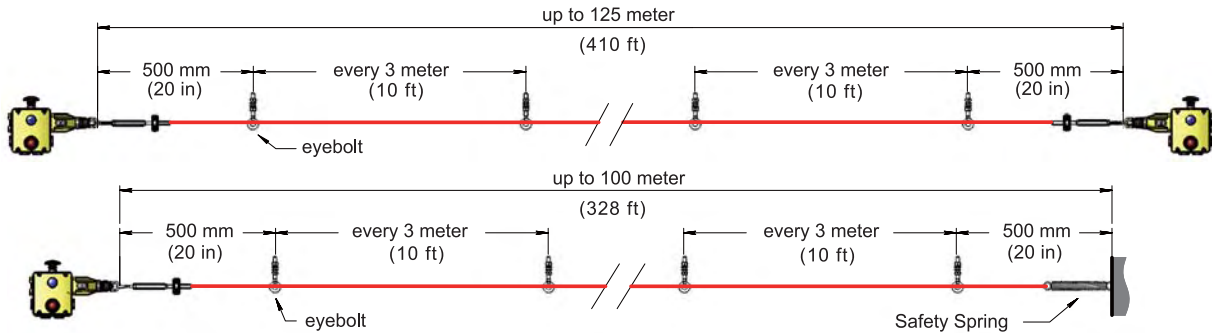
A bi-color LED ensures switch status can be seen easily from a distance. They have 4NC 2NO contacts to ensure flexibility with all modern control applications.

They can be used to compliment the Line Strong 3D versions at each end of the rope span.

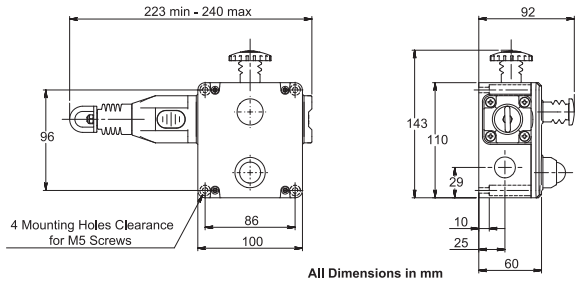


Line Strong 3L

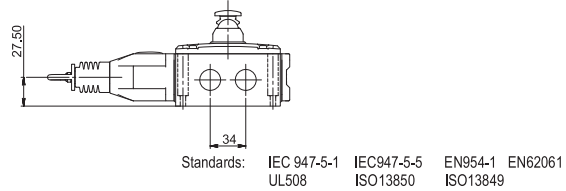
Line Strong 3R



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



All Dimensions in mm



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

### Safety Classification and Reliability Data:

Mechanical Reliability B10d	1.5 x 10 <sup>6</sup> 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
PFFhd	<1.0 x 10 <sup>-7</sup>
Proof Test Interval (Life)	21 years
MTTFd	214 years
Enclosure / Cover	Die-Cast – Painted Yellow
External Parts	Stainless Steel
IP Rating	IP67
Rope Spans	125m.
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	4 x M20 or 4 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	1320 g.
Contact type	IEC 947-5-1 Double break Type Zb Snap Action up to 4NC (positive break) 2NO (Auxiliary)
Contact Material	Silver
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)

### Line Strong 3L and 3R

- 2TLA050206R0332 LineStrong3L, 4NC/2NO, M20 ESTOP/LED 24VDC
- 2TLA050206R1332 LineStrong3L, 4NC/2NO, NPT ESTOP/LED 24VDC
- 2TLA050206R0333 LineStrong3L, 4NC/2NO, M20 ESTOP/LED 110VAC
- 2TLA050206R1333 LineStrong3L, 4NC/2NO, NPT ESTOP/LED 110VAC
- 2TLA050206R0334 LineStrong3L, 4NC/2NO, M20 ESTOP/LED 230VAC
- 2TLA050206R1334 LineStrong3L, 4NC/2NO, NPT ESTOP/LED 230VAC
- 2TLA050206R0232 LineStrong3L, 4NC/2NO, M20 LED 24VDC
- 2TLA050206R1232 LineStrong3L, 4NC/2NO, NPT LED 24VDC
- 2TLA050206R0233 LineStrong3L, 4NC/2NO, M20 LED 110VAC
- 2TLA050206R1233 LineStrong3L, 4NC/2NO, NPT LED 110VAC
- 2TLA050206R0234 LineStrong3L, 4NC/2NO, M20 LED 230VAC
- 2TLA050206R1234 LineStrong3L, 4NC/2NO, NPT LED 230VAC
- 2TLA050206R0130 LineStrong3L, 4NC/2NO, M20, ESTOP
- 2TLA050206R1130 LineStrong3L, 4NC/2NO, NPT ESTOP
- 2TLA050206R0030 LineStrong3L, 4NC/2NO, M20
- 2TLA050206R1030 LineStrong3L, 4NC/2NO, NPT
- 2TLA050208R0332 LineStrong3R, 4NC/2NO, M20 ESTOP/LED 24VDC
- 2TLA050208R1332 LineStrong3R, 4NC/2NO, NPT ESTOP/LED 24VDC
- 2TLA050208R0333 LineStrong3R, 4NC/2NO, M20 ESTOP/LED 110VAC
- 2TLA050208R1333 LineStrong3R, 4NC/2NO, NPT ESTOP/LED 110VAC
- 2TLA050208R0334 LineStrong3R, 4NC/2NO, M20 ESTOP/LED 230VAC
- 2TLA050208R1334 LineStrong3R, 4NC/2NO, NPT ESTOP/LED 230VAC
- 2TLA050208R0232 LineStrong3R, 4NC/2NO, M20 LED 24VDC
- 2TLA050208R1232 LineStrong3R, 4NC/2NO, NPT LED 24VDC
- 2TLA050208R0233 LineStrong3R, 4NC/2NO, M20 LED 110VAC
- 2TLA050208R1233 LineStrong3R, 4NC/2NO, NPT LED 110VAC
- 2TLA050208R0234 LineStrong3R, 4NC/2NO, M20 LED 230VAC
- 2TLA050208R1234 LineStrong3R, 4NC/2NO, NPT LED 230VAC
- 2TLA050208R0130 LineStrong3R, 4NC/2NO, M20, ESTOP
- 2TLA050208R1130 LineStrong3R, 4NC/2NO, NPT ESTOP
- 2TLA050208R0030 LineStrong3R, 4NC/2NO, M20
- 2TLA050208R1030 LineStrong3R, 4NC/2NO, NPT

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.