

# Line Strong 3LZ and 3RZ Heavy duty switches

## Protection up to 125 meters



The Line Strong 3LZ / RZ is a robust 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.

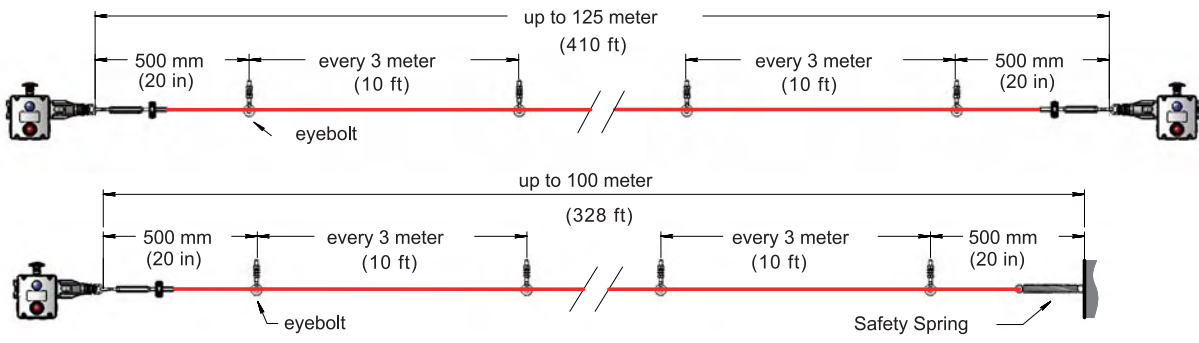
The Stainless Steel 316 housings are designed specifically to withstand the tough environments found in the Food and Pharmaceutical industries. They will survive chemical and detergent washdown by providing all stainless steel parts and robust IP67 and IP69K sealing by using integral bellows and gaskets.

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

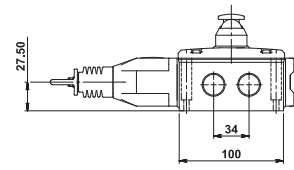
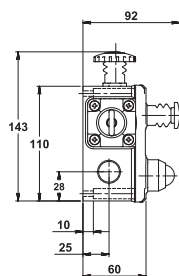
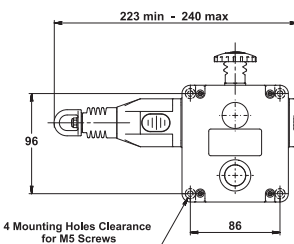


Line Strong 3LZ

Line Strong 3RZ



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 ISO13849-1

### 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
PFHd	< 1.0 x 10 <sup>-7</sup>
Proof Test Interval (Life)	21 years
MTTFd	214 years
Enclosure / Cover	Stainless Steel 316
External Parts	Stainless Steel
IP Rating	IP69K (NEMA PW12) IP67 (NEMA 6)
Rope Spans	125m.
Rope Tension device	Tensioner / Gripper – Quick Fixing
Rope Tension	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. (100C. cleaning)
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 3LZ and 3RZ

2TLA050206R0322	LineStrong3LZ, 4NC/2NO, M20 ESTOP/LED SS 24VDC
2TLA050206R1322	LineStrong3LZ, 4NC/2NO, NPT ESTOP/LED SS 24VDC
2TLA050206R0323	LineStrong3LZ, 4NC/2NO, M20 ESTOP/LED SS 110VAC
2TLA050206R1323	LineStrong3LZ, 4NC/2NO, NPT ESTOP/LED SS 110VAC
2TLA050206R0324	LineStrong3LZ, 4NC/2NO, M20 ESTOP/LED SS 230VAC
2TLA050206R1324	LineStrong3LZ, 4NC/2NO, NPT ESTOP/LED SS 230VAC
2TLA050206R0222	LineStrong3LZ, 4NC/2NO, M20 LED, SS 24VDC
2TLA050206R1222	LineStrong3LZ, 4NC/2NO, NPT LED, SS 24VDC
2TLA050206R0223	LineStrong3LZ, 4NC/2NO, M20 LED, SS 110VAC
2TLA050206R1223	LineStrong3LZ, 4NC/2NO, NPT LED, SS 110VAC
2TLA050206R0224	LineStrong3LZ, 4NC/2NO, M20 LED, SS 230VAC
2TLA050206R1224	LineStrong3LZ, 4NC/2NO, NPT LED, SS 230VAC
2TLA050206R0120	LineStrong3LZ, 4NC/2NO, M20, ESTOP, SS
2TLA050206R1120	LineStrong3LZ, 4NC/2NO, NPT ESTOP, SS
2TLA050206R0020	LineStrong3LZ, 4NC/2NO, M20, SS
2TLA050206R1020	LineStrong3LZ, 4NC/2NO, NPT, SS
2TLA050208R0322	LineStrong3RZ, 4NC/2NO, M20 ESTOP/LED SS 24VDC
2TLA050208R1322	LineStrong3RZ, 4NC/2NO, NPT ESTOP/LED SS 24VDC
2TLA050208R0323	LineStrong3RZ, 4NC/2NO, M20 ESTOP/LED SS 110VAC
2TLA050208R1323	LineStrong3RZ, 4NC/2NO, NPT ESTOP/LED SS 110VAC
2TLA050208R0324	LineStrong3RZ, 4NC/2NO, M20 ESTOP/LED SS 230VAC
2TLA050208R1324	LineStrong3RZ, 4NC/2NO, NPT ESTOP/LED SS 230VAC
2TLA050208R0222	LineStrong3RZ, 4NC/2NO, M20 LED, SS 24VDC
2TLA050208R1222	LineStrong3RZ, 4NC/2NO, NPT LED, SS 24VDC
2TLA050208R0223	LineStrong3RZ, 4NC/2NO, M20 LED, SS 110VAC
2TLA050208R1223	LineStrong3RZ, 4NC/2NO, NPT LED, SS 110VAC
2TLA050208R0224	LineStrong3RZ, 4NC/2NO, M20 LED, SS 230VAC
2TLA050208R1224	LineStrong3RZ, 4NC/2NO, NPT LED, SS 230VAC
2TLA050208R0120	LineStrong3RZ, 4NC/2NO, M20, ESTOP, SS
2TLA050208R1120	LineStrong3RZ, 4NC/2NO, NPT ESTOP, SS
2TLA050208R0020	LineStrong3RZ, 4NC/2NO, M20, SS
2TLA050208R1020	LineStrong3RZ, 4NC/2NO, NPT, SS

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.