

# Limit, micro and foot switches

**Rope-pull lever limit switches for emergency stopping, ISO 13850 compliant.**

**Accessories and spare parts**



RS13 13 10

TL13 13 10



PLN 13 13 11



P2L...

## Accessories and spare parts



P33032

P33033



P33034



P33035



P33036

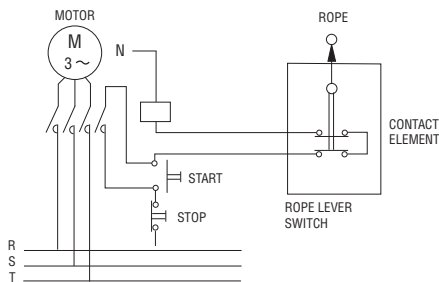
Order code	Contacts	Force	Qty per pkg	Wt
		[N]/[lb]	n°	[kg]

With reset button.

RS13 13 10	1NO + 1NC	25/5.6	1	0.092
TL13 13 10	1NO + 1NC	25/5.6	1	0.125
PLN13 13 11	1NO + 1NC	60/13.5	1	0.248
P2L13 13 11	1NO + 1NC	40/9	1	0.459
P2L13 13 12	1NO + 1NC	120/27	1	0.459
P2L15 13 11	2NO + 2NC	40/9	1	0.459
P2L15 13 12	2NO + 2NC	120/27	1	0.459

① Direct (positive) opening action  $\ominus$ ; safety function according to IEC/EN 60947-5-1.

### Example of wiring diagram



Type	Travel [mm (in)]	open	closed
RS... T...	11-12 21-22 0 [mm (in)] 6 (0.24")		
PLN...	11-12 21-22 0 [mm (in)] 8 (0.31")		
P2L13...	11-12 21-22 0 [mm (in)] 10 (0.39")		
P2L15...	31-32 41-42 13-14 23-24 0 [mm (in)] 10 (0.39")		

### General characteristics

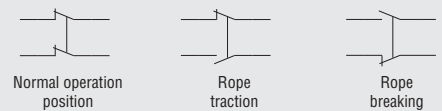
The rope-operated switches for emergency stop are mainly suitable for emergency stop or alarm systems for machinery which occupies a large space. This emergency stop can be achieved from any point when the rope is manually pulled each time.

The choice of the body, between plastic and metal, can satisfy the most diversified requirements for sturdiness and size.

### Operational characteristics

- Maximum operating rate: 1800 cycles/h
- Mechanical life: 100,000 cycles
- IEC utilisation category
  - DC13 duty: 1.5A 24V (10A 24V only for PLN-P2L)
  - AC15 duty: 6A 250V (3A 400V only for PLN-P2L)
- IEC conventional thermal current Ith: 10A for RS, TL and PLN; 6A for P2L
- IEC rated insulation voltage Ui: 250VAC (400V for PLN-P2L)
- Contact resistance: <10mΩ
- Short-circuit backup protection: 10A gG/SC quick fuse
- Cable entry: PG11 for RS, PLN and P2L types (PLN and P2L complete with cable gland); PG13.5 for TL13 only
- Cable connection: Self-releasing screw terminal
- Tightening torque:
  - Switch fixing: 2.5Nm / 22.1lbin
  - Contact terminals: 0.8Nm / 7lbin
  - Body lid screw fixing: 0.8Nm / 7lbin
- Conductor section: 1 or 2 2.5mm<sup>2</sup> max / 16-14 AWG
- Ambient conditions:
  - Operating temperature: -25 ... +70°C
  - Storage temperature: -40...+70°C
  - Pollution degree: 3
  - IEC degree of protection: IP65 (T series: IP66).

### Operation



### Certification and compliance

Certifications obtained: EAC for all; UL Listed for USA and Canada (cULus - File E93601), as Auxiliary Devices - Limit switches for RS13 and TL13 types only. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1, IEC/EN 60204-1, ISO 13850; also UL508, CSA-C22.2 n° 14 for RS and TL types.