

PALM SWITCHES LP9... TYPE



 **Lovato**
electric

ENERGY AND AUTOMATION

PALM SWITCHES TYPE LP9...



LP9S...R



LP9S...B



LP9P...R



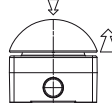
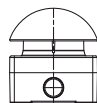
LP9XC...

Order code	Description	Qty per pkg n°
LP9S01R	Momentary Ø90mm red mushroom. Contacts: 1NC.	1
LP9S11R	Momentary Ø90mm red mushroom. Contacts: 1NO+1NC	1
LP9S10B	Momentary Ø90mm black mushroom. Contacts: 1NO	1
LP9S11B	Momentary Ø90mm black mushroom. Contacts: 1NO+1NC	1
LP9P02R	Emergency Ø90mm red mushroom pull-to-release. Contacts: 2NC	1
LP9P11R	Emergency Ø 90mm red mushroom pull-to-release. Contacts: 1NO+1NC	1
Accessories ⓘ		
LP9XC10	1NO contact	1
LP9XC01	1NC contact	1

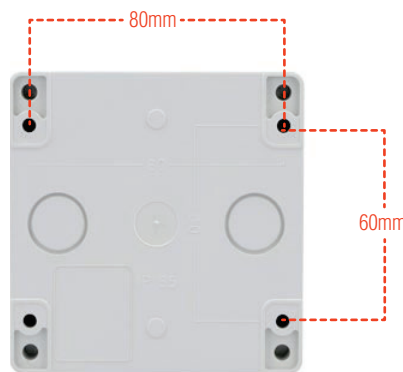
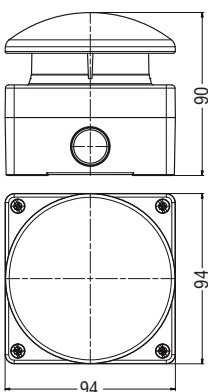
ⓘ Maximum configuration: n°3 LP9XC... contact elements.

Momentary mushroom

Emergency mushroom pull-to-release



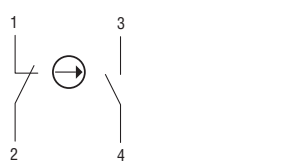
DIMENSIONS [mm]



CONTACT CONFIGURATIONS



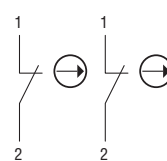
LP9S01R



LP9S11B
LP9S11R
LP9P11R



LP9S10B



LP9P02R

General characteristic

LOVATO Electric palm switches LP9... types are designed for machine stop and immediate service control applications.

They are widely used in the most diverse applications, including emergency stop for escalators, gate openers, pedestrian crossing buttons for disabled users, etc ...

The ergonomic design and large surface for an easy actuation with the hand, elbow or foot, ensures immediate actuation of machinery and equipment even if the operator has his hands full.

This new range is split into two versions:

- **Momentary mushroom** (available in grey/black or grey/red);
- **Emergency mushroom "pull-to-release"** (available in yellow/red only).

Operational characteristics

- cable entry (knockout version):
 - M20/PG13.5 (1 on each side)
 - M16/PG11 (2 on the cover bottom)
- any mounting position allowed
- tightening torque of cover screws T_{max}: 0.8Nm
- ambient conditions:
 - operating temperature: -25...+75°C
 - storage temperature: -40...+85°C
- IEC/EN degree of protection: IP65.

CONTACT ELEMENTS

- rated insulation voltage: 690V
- rated thermal current I_{th}: 10A
- conductivity: 5V 10mA
- tightening torque of contact screws: 0.5...0.8Nm
- conductor cross section: 1 or 2 - 0.5...2.5mm²
- IEC/EN 60947-5-1 designation: A600 Q300

Minimum operational characteristics in AC15:

[V]	12	24	48	120	240	400	480	500	600
[A]	6	6	6	6	3	1.9	1.5	1.4	1.2

Minimum operational characteristics in DC13:

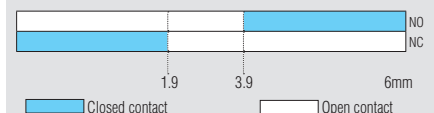
[V]	12	24	48	125	250	440	500	600
[A]	3	3	1.5	0.55	0.27	0.15	0.13	0.1

Operational characteristics in AC15:

24V 10A and 400V 4A

- short-circuit protection fuse: max. calibre 10A gG/gL
- contact resistance: ≤25mΩ
- operating force: ≤2.6N
- mechanical life: 1.000.000 cycles.

STROKE OF CONTACT ELEMENTS



Material

PC-ABS for button and control station.
PA66 for plastic operator frame (LP9S...).
Chrome-plated zamak for metal operator frame (LP9P...).

Compliance

Compliant with standards: IEC60947-5-1.