

# RL8 Type mini limit switch



## A compact and accurate vertical limit switch

### ◆ Features

- Compact design approximately 1/3 of common limit switches.
- Easy wiring with full-open terminals.



(Roller arm type)

### ◆ Model Number Legend

RL8   
①

- ① Actuator
  - 111: Push plunger
  - 112: Roller plunger
  - 122: Cross roller plunger
  - 104: Roller arm
  - 108: Adjustable roller arm
  - 107: Adjustable rod
  - 166: Flexible rod
  - 169: Spring wire

### ◆ Ratings

Rated voltage	Non-inductive load				Inductive load			
	Resistive load		Lamp load		Inductive load		Motor load	
	NC	NO	NC	NO	NC	NO	NC	NO
AC 125V	5A		1.5A	0.7A	3A	2A	1A	
AC 250V	5A		1A	0.5A	3A	1.5A	0.8A	
DC 12V	5A		3A		4A	3A		
DC 24V	5A		3A		4A	3A		
DC 125V	0.4A	0.2A	—		—	—		
DC 250V	0.4A	0.2A	—		—	—		

Note:

1. Inductive load has a power factor of 0.4 min. (AC) and a time constant of 7ms max.(DC).
2. Lamp load has an inrush current of 10 times the steady-state current.
3. Motor load has an inrush current of 6 times the steady-state current.

### ◆ Characteristics

Operating speed		5mm to 0.5 m/s
Operating frequency	Mechanical	120 operations/min
	Electrical	30 operations/min
Insulation resistance		100MΩ min. (at 500 VDC)
Contact resistance		25mΩ max. (initial value)
Dielectric strength		1,000VAC, 50/60 Hz for 1 min between terminals of same polarity;
		1,500VAC, 50/60 Hz for 1 min between current-carrying metal parts and the ground, and between each terminal and non-current-carrying metal parts
Vibration resistance	Malfunction	10 to 55 Hz, 1.5mm double amplitude ( Malfunction:1ms max.)
Shock resistance	Destruction	1,000 m/s <sup>2</sup> max. (Malfunction:1ms max.)
	Malfunction	300 m/s <sup>2</sup> max. (Malfunction:1ms max.)* (see note)
Durability	Mechanical	1,000,000 operations min.
	Electrical	300,000 operations min.(at rated resistive load, 5A 250VAC)
Rated insulation voltage (Ui)		250VAC
Rated working current (Ie)		5A
Rated working voltage (Ue)		AC250V
Pollution degree		3(GB14048.5)
Short-circuit protection device		10A fuse
Conditional short-circuit current		100A (EN60947-5-1)
Protective construction		IP65
Degree of protection against electric shock		Class I
Proof tracking index (PTI)		175
Ambient temperature and humidity		-20°C to 60°C(with no icing or condensation); 95% RH max.
Weight		Approx. 130g to 190g

\* Note: 1. The above durability values are for the roller arm type, for other types, please inquire.

2. The above durability apply under the following test conditions: Ambient temperature: 5°C to 35°C Ambient humidity: 40% to 70% RH.

3. The above durability not including the Flexible rod type and Spring wire type.