LTZ-8 VERTICAL TRAVEL SWITCH/LIMIT SWITCH

Product Feature

- Double circuits type limit switch
- Strong construction, consists of Zinc Alloy and Reinforced Plastics
- Small volume, water-proof and oil-proof construction
- Built-in micro switch with double spring mechanism, longer mechanical life
- Smooth operation with greater OT
- The design is easy to wire assembly
- Wide varity of actuators, easily to use

Specifications

Operation Speed	0.5mm to 50cm/sec (Plunger type)
Operation Frequency	Mechanical: 120 times/minute Electrical: 30 times/minute
Contact Resistance	25mΩMax.(in the initial
Insulation Resistance	100M Min.(Below 500VDC)
Dieletric Strength	1,000VAC, 50/60Hz for 1 minute between discontinuous terminals
	1,500VAC, 50/60Hz for 1minute between current carrying parts and non-current carrying parts
	1,500VAC, 50/60Hz for 1minute between Terminal and GND
Vibration Resistance	10to50Hz:1.5mm bi-amplitude
Shock Resistance	Mechanical Durability: 1,000m/Sec^2 about 100G'S Malfunction Durability: 300m/Sec^2 (about 30G'S)
Operation Temperature	Working temperature: −5 ~ +65℃ (No freezing)
Operation Humidity	＜95%RH
Life	Mechanical: Above 10,000,000 times Electrical: Above 500,000 times
Weight	22 to 58g
IP Degree	IP65

Model Code

LTZ−8□

111：Plunger type
112：Roller Plunger type
122：Cross roller plunger type
104：Roller swinging rod type
108：Adjustable roller swinging rod type
107：Adjustable rod type
166：Spring soft rod type
167：Spring type
168：Spring hard rod type
169：Spring steel wire type

Contact Diagram



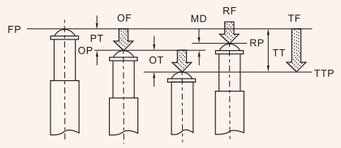
Ratings

Rated voltage	Non-Inductive Load				Inductive Load			
	Resistive Load		Lamp Load		Inductive Load		Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125VAC	5A	5A	1.5A	0.7A	3A	3A	2A	1A
250VAC	5A	5A	1A	0.5A	3A	3A	1.5A	0.8A
8VDC	5A	5A	3A	3A	5A	4A	3A	3A
14VDC	5A	5A	3A	3A	4A	4A	3A	3A
30VDC	5A	5A	3A	3A	4A	4A	3A	3A
125VDC	0.4A	0.4A						
250VDC	0.2A	0.2A						
Inrush current	NC: Below 24A NO:Below 12A							

Notes: 1. The power factor of Inductive Load is over 0.4(AC).
And usually the time constant is below 7 msec(DC).
2. The inrush current of Lamp Load is 10 times as than in stable condition, and Motor current is 6 times as than in stable condition.

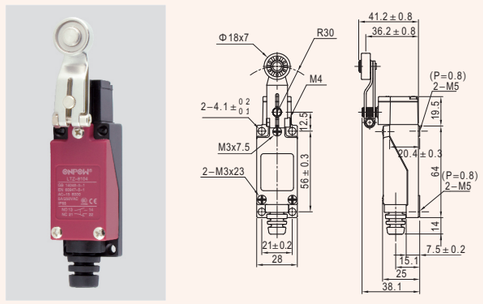
Operating Characteristics

Type	TZ−8104	TZ−8108	TZ−8107	TZ−8111	TZ−8112 TZ−8122	TZ−8166 TZ−8167 TZ−8168 TZ−8169
OF Max.	750g	750g	750g	900g	900g	150g
RF Min.	100g	100g	100g	150g	150g	—
PT Max.	20°	20°	20°	1.5mm	1.5mm	30mm
OT Min.	50°	50°	50°	4mm	4mm	—
MD Max.	12°	12°	12°	1mm	1mm	—
OP	—	—	—	26 ± 0.8mm	37 ± 0.8mm	—

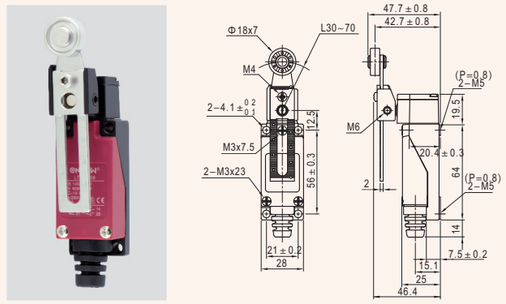


FP: Free Position
OP: Operating Position
PT: Pre-Travel
OF: Operating Force
OT: Over Travel
MD: Movement Differential
RF: Release Force
RP: Release Position
TT: Total Travel
TF: Total travel Force
TTP: Total Travel Position

LTZ−8104



LTZ−8108

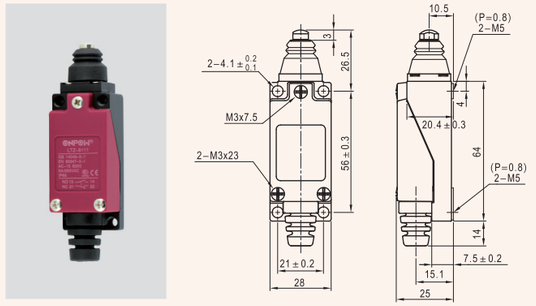


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LTZ−8107



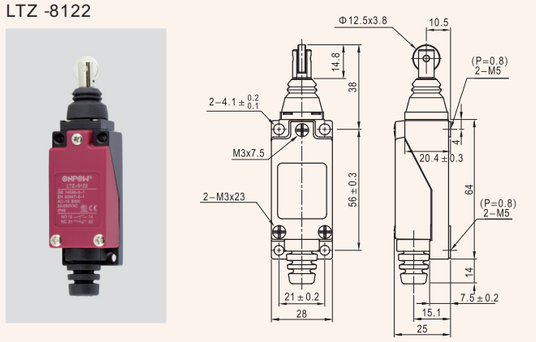
LTZ−8111



LTZ -8112



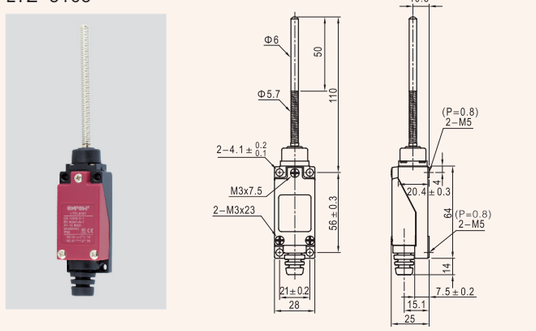
LTZ -8122



LTZ -8166



LTZ -8168



LTZ -8167



LTZ -8169

