

CZ-3

Compact Prewired Limit Switch

Specifications

- DPDS limit switch for multiple applications.
- Rugged aluminum alloy diecast housing
- High mechanical strength.
- Oil resistance, waterproof and dustproof structure.

Ratings

Rated voltage	Noninductive load (A)				Inductive load (A)			
	Resistance load		Lamp load		Inductive load		Motor load	
	NC	NO	NC	NO	NC	NO	NC	NO
125 VAC	5 (0.1)		1.5	0.7	3		2.5	1.3
250 VAC	3		1	0.5	2		1.5	0.8
8 VDC	5 (0.1)		2		5	4	3	
14 VDC	5 (0.1)		2		4	4	3	
30 VDC	4 (0.1)		2		3	3	3	
125 VDC	0.4		0.05		0.4	0.4	0.05	
250 VDC	0.2		0.03		0.2	0.2	0.03	

Characteristics

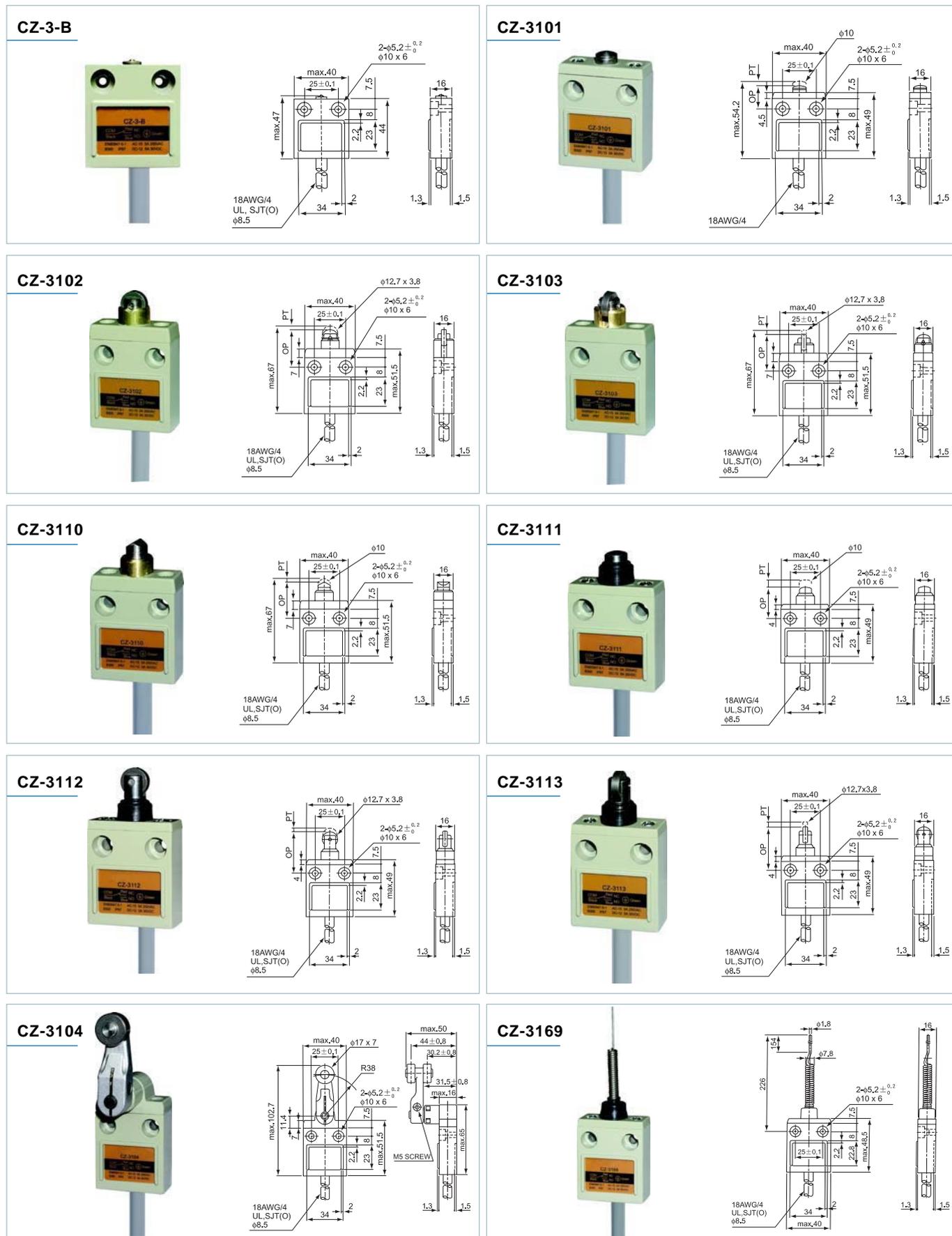
Rating	5A 125V, 3A 250VAC
Operating speed	1mm~1m/s
Operating frequency	Mechanical: 120 operations/min. Electrical: 30 operations/min.
Contact resistance	15m Ω max.(initial)
Insulation resistance	100m Ω min.(at 500VDC)
Dielectric strength	1000VAC, 50/60 HZ for 1 minute between terminals of the same polarity
	1500VAC, 50/60 HZ for 1 minute between current-carrying and non-current-carrying metal parts 1500VAC, 50/60 HZ for 1 minute between each terminal and ground
Vibration Frequency	10 to 55HZ, 1.5mm double amplitude
Shock	Mechanical: Approx. 1000m/s ² (Approx. 100G'S)
	Electrical: Approx. 500m/s ² (Approx. 50G'S)
Ambient temperature	-10℃~+70℃
Humidity	Below 95%RH
Life	Mechanical. 10,000,000 operations/min.
	Electrical. 200,000 operations/min.
Degree of protection	IEC: IP67
Weight	Approx. 360g(cable length 3m)
	Approx. 540g(cable length 5m)

Operating characteristics

Models	CZ-3101	CZ-3102	CZ-3103	CZ-3104	CZ-3110	CZ-3111	CZ-3112	CZ-3113	CZ-3169
OF Max.	1200gf(11.77N)	1200gf(11.77N)	1200gf(11.77N)	580gf(5.69N)	1200gf(11.77N)	1800gf(17.65N)	1800gf(17.65N)	1800gf(17.65N)	150gf(1.47N)
RF Min.	450gf(4.41N)	450gf(4.41N)	450gf(4.41N)	150gf(1.47N)	450gf(4.41N)	450gf(4.41N)	450gf(4.41N)	450gf(4.41N)	-
PT Max.	1.8mm	1.8mm	1.8mm	25	1.8mm	1.8mm	1.8mm	1.8mm	15°
OT Min.	3mm	3mm	3mm	40	3mm	3mm	3mm	3mm	-
MD Max.	0.2mm	0.2mm	0.2mm	3	0.2mm	0.2mm	0.2mm	0.2mm	-
OP	15.7 ± 1mm	28.5 ± 1mm	28.5 ± 1mm	-	28.5 ± 1mm	24.9 ± 1mm	34.3 ± 1mm	34.3 ± 1mm	-

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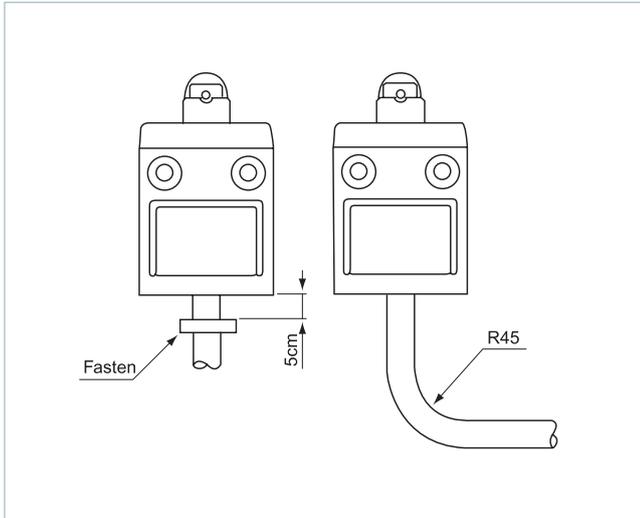
Appearance and dimension



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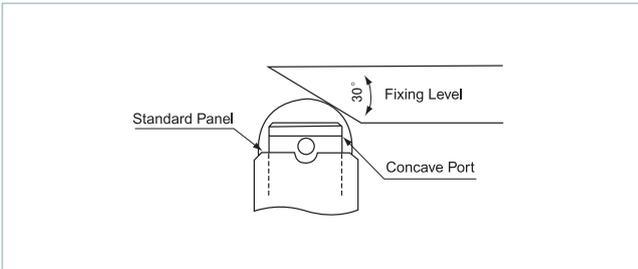
Fastening of the switch cable

The switch bodies are filled with resin for sealing purposes. To avoid stressing the cable and switch body, fasten the switch at 5 cm or farther away from the switch body, should the wire be bent, the bending radius shall be at least 45mm.



Installation

The service life and accuracy of switches will be effected by the shape of actuator operation frequency & over travel. So the angular of the fixing level should be about 30° , the surface finish of the fixing level should be over, the hardness is from HV400~500. When installing, the position of the concave part should be above the standard panel

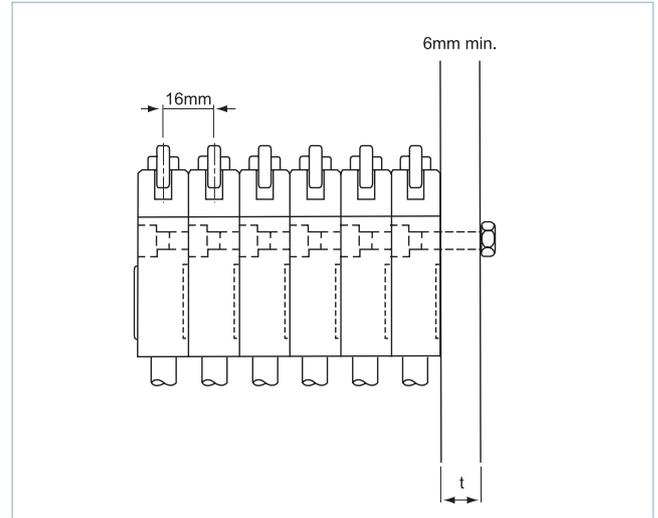


Contact types



Switch bank mounting

A maximum of six switches may be mounted together as a switch bank. During the installation, the convex part of the switch back. The mounting panel shall be 6mm or thicker.



Mounting

Recommended tightening torque according to the following form.

Model	Screw type	Torque
1	M5 fastening screws	43.4~52lb.in (50~60kgf.cm)
2	M3.5 installing screws	6.9~7.9lb.in (8~9kgf.cm)

Mounting holes

Mount the switch body to a rigid mounting panel using two M5 screws.

