

Micro switch (CMV-101-D)

Description:

Micro switches are tiny little switches used mainly for automation of machines that needs to stopped or started automatically on its own. The most common place that one will find and a micro switch in action are at the auto gates and doors. We see swings open at shut at will. Other than these places micro switches are widely used in the manufacturing sector where they need to calibrate their machines to do certain job at certain time .For description sake, we shall take the automated gates as a simple example. If you look carefully you will see a lever on the motor that pushes the gates open. Once the gates are fully opened, the lever gets in contact with a tiny button that is hardly visible to the eye. That is the button of the micro switch. The lever moving in tandem with the gates will be calibrated to press against the switch which will in turn “open” the electrical circuit, exactly the time the gates are fully opened.

Feature

- Various of actuators, the operation position is adjustable (such as CZ-7121)
- Outer shell covered with intensive plastic, water-proof and oil-proof. The mechanical strength is better than CM type of micro switch, bear hitting.
- Inductive load has a power factor of 0.4 min. (AC) and a time constant of 7 m sec. max.(DC).
Product with spring, its usable range of operating part is within one third of the whole spring length from the front end of spring.

Ratings

Item Spec.	Rated voltage	No inductive Load (A)				Inductive Load (A)				Inrush Current	
		Resistance Load		Lamp Load		Inductive Load		Motor Load			
		NC	NO	NC	NO	NC	NO	NC	NO	NC	NO
10A	250VAC	10		1.5		6		2		24 max .	
	8VDC	10		3		6		3			
	30VDC	6		3		6		3			
	125VDC	0.3		0.1		0.6		0.1			
	250VDC	0.3		0.05		0.3		0.05			
16A	250VAC	16		2		10		3		40 ma x.	
	8VDC	16		4		10		6			
	30VDC	10		4		10		4			
	125VDC	0.6		0.1		0.6		0.1			
	250VDC	0.3		0.05		0.3		0.05			



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Technical Specification:

Electrical attributes and Key features			
Type Item	CMV 10	CMV 16	CMV 21
Operation speed	0.1mm~1m/s(Button type)		
Operating frequency	Mechanical : 240 operations/min Electrical : 20 operations/min		
Insulation resistance	100mΩ above(at 500VDC)		
Contact resistance	15mΩmax. (initial value)		
Withstand voltage	Non-continuous terminals	1,000VAC, 50/60Hz	
	current-carrying and non-current-carrying metal parts, Between terminal and earthling	1,500VAC, 50/60Hz	2,000VAC, 50/60Hz
Vibration	Misoperation	10 to 55Hz, 1.5mm pairs swing	
Shock	Durable	1,000m/S ² (100G)	
	Misoperation	200m/S ² (100G)	300m/S ² (100G)
Life	Mechanical	1000	
	Electrical	30	10
Temperature	-10~+65°C		
Humidity	85%RH (+5~+35°C)		



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