

isotron

CM Micro Switch

Features

- Virous of actuators, action position is adjustable(such as CM1701)
- High switch on and off capacity(15A)
- High accuracy
- Wide range of operation speed
- Each type of CM series has solder terminal, screw terminal and tab terminal are selective
- Add A for solder terminal, add C for tab terminal, blank for screw terminal

Contact Form

• NC NO \cap

Characteristics

Operation speed	0.01mm-1m/sec
Operating frequency	Mechanical: 240 operations/min. Electical: 20 operations/min.
Contactresistance	15m Ω max. (initial value)
Insulation resistance	100m Ω above (at 500VDC)
	1000VAC, 50/60 HZ for 1 minute between terminals of the same polarity
Dielectric strength	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	10-55HZ,1.5mm double amplitude
Ohaali	Mechanical durable: 1, 000m/Sec ² (about 100G'S)
Shock	Malfunction: 300m/Sec ² (about 30G'S)
Ambient temperature	General purpose type: -25 $^\circ\!\!\!\!C$ to +80 $^\circ\!\!\!\!C$, Sealed type: -15 $^\circ\!\!\!\!C$ to +80 $^\circ\!\!\!\!C$
Humidity	General purpose type: 85% RH max., Sealed type: 95% RH max.
Life	Mechanical: 20,000,000 operations/min.
LIIE	Electrical: 500,000 operations/min.
Weight	About 22g to 58g
Degree of protection	IP65

Operating characteristics

Models	CM1300	CM1301	CM1303	CM1305	CM1306	CM1307	CM1308	CM1309	CM1701	CM1702	CM1703	CM1704	CM1705	CM1743
OF Max.	350g	300g	300g	350g	350g	350g	350g	350g	70g	100g	160g	160g	10g	160g
RF Min.	114g	50g	50g	114g	114g	114g	114g	114g	14g	28g	22g	42g	3g	42g
PT Max.	0.4mm	4mm	4mm	0.4mm	0.4mm	0.4mm	0.4mm	0.4mm	10mm	5mm	7.1mm	2.7mm	20mm	2.7mm
OT Min.	0.13mm	1.6mm	1.6mm	1.6mm	1.6mm	5.5mm	3.58mm	3.58mm	5.6mm	2mm	4mm	2.4mm	5.6mm	2.4mm
MD Max.	0.05mm	1.3mm	1.3mm	0.05mm	0.05mm	0.05mm	0.05mm	0.05mm	1.27mm	1mm	1.02mm	0.5mm	3mm	0.5mm
FP Max.		20.6mm	31.8mm						28.2mm	24.8mm	36.5mm	32.5mm		43.6mm
OP(mm)	15.9 = 0.4	17.4 = 0.8	28.6 = 0.8	28.2 = 0.5	21.5 = 0.5	21.8 = 0.8	33.4 = 1.2	33.4 = 1.2	19 = 0.8	19 = 0.4	30.2 = 0.8	30.2 = 0.4	19 = 0.4	43.1 = 0.8

Ratings

Rated voltage	Noninductive Load (A)				I	Inrush					
		tance ad		mp oad	Indu Lo		Ma Lo		Current		
	NC	NO	NC	NO	NC	NO	NC	NO	NC	NO	
125VAC 250VAC 500VAC	15 15 3		3 2.5 1.5	1.5 1.25 0.75	15 15 2.5		5 3 1.5	2.5 1.5 0.75			
8VDC 14VDC 30VDC 125VDC 250VDC	1 6(0	15 15 6(2) 0.4 0.2		1.5 1.5 1.5 0.4 0.2	15 10 5 0.05 0.03		5 5 0.05 0.03	2.5 2.5 2.5 0.05 0.03	30 max.	15 max.	

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Operating characteristics

Definitions of operating characteristics:

position

normal position to action contact

The position of executer unit in case

of executer unit reaching the

The distance or angle that the

executer unit passes since free

The distance or angle that the

executer unit surpasses action

position to action position

MD: movement differential The distance or angle from action

position to reversion position

The distance or angle represents

the movement till action and the

TTP: total tavel position

limitation position

PT: pretravel

OT: overtravel

TT: total tavel

position

OF: operating force

Force needed to add to the executer unit to actuate switch contact

RF: releasing force

Force needed to add to the execter unit to make the switch contact back to normal position

TF: total force

Force needed to make executer unit move from free position to limitation position

FP: free position

Primary position of executer unit without external force adding to executer unit

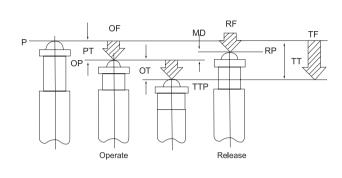
OP: operating position

The position of executer unit in case of the contact rapidly moving to the contact position for action

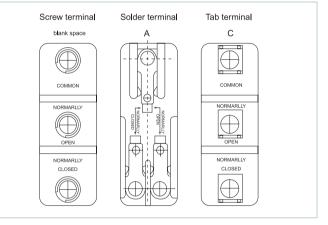
RP: releasing position

The position of executer unit in case of the contact rapidly backing to

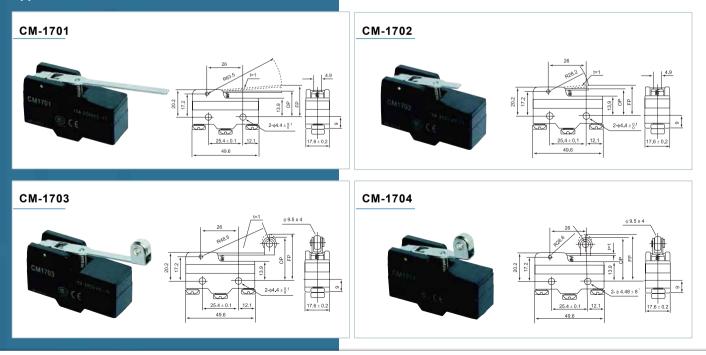
t rapidly backing to total movement after all actions.

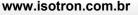


Terminal Type



Appearance and dimension



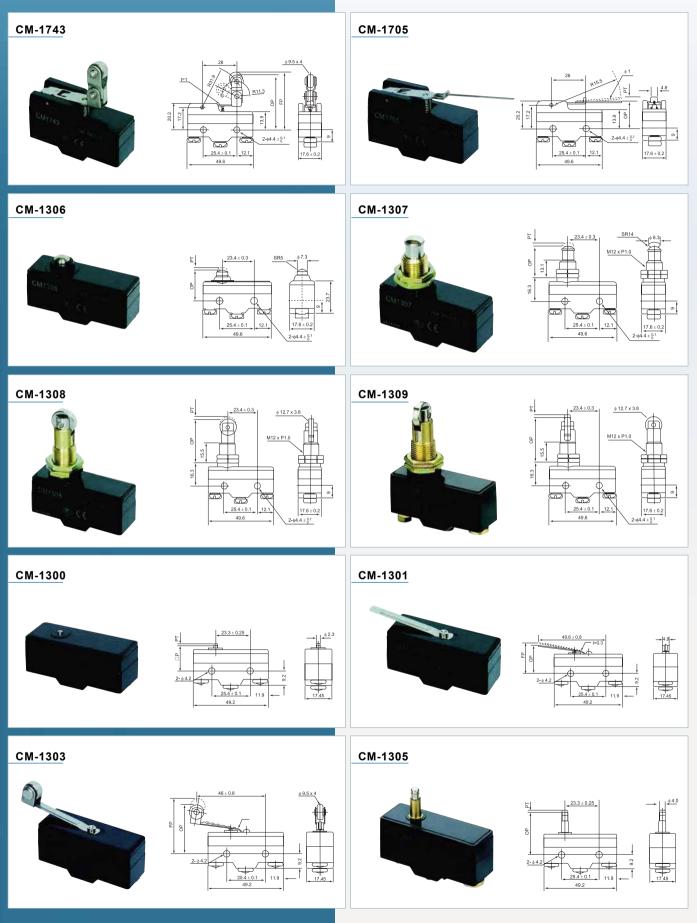






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