

Ratings

Item Spec.	Rated Voltage	Noninductive 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			



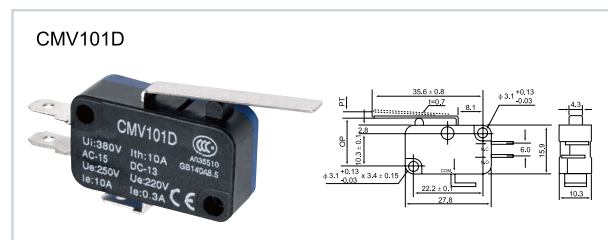
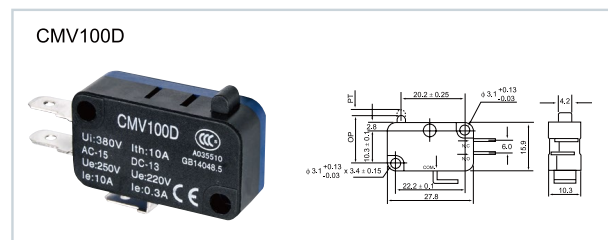
Specifications

Type		CMV 10 type
Item		
Operation speed		0.05mm~1m/s(Button type)
Operating frequency		Electrical: 20 operations/min
Insulation resistance		100m Ω above(at 500VDC)
Contact resistance		15m Ω max. (initial value)
Withstand voltage	Non-continuous terminals	1000VAC, 50/60 Hz for 1 minute
	current-carrying and non-current-carrying metal parts, Between terminal and earthing	1500VAC, 50/60 Hz for 1 minute
Vibration	Misoperation	10 to 55Hz,1.5mm pairs swing
Shock	Durable	Maximum 1000 m/S ² (100G)
	Misoperation	Maximum 200 m/S ² (100G)
Life	Electrical	More than 300000 times
Temperature		Using: -20~+70℃ (With no icing)
Humidity		(+5~+35℃)Below 85% RH

Operating Characteristics

Models	CMV100D	CMV101D	CMV102D	CMV103D	CMV104D	CMV105D	CMV106D
OF(Max.)	2.4N	1.23N	2.4N	1.23N	2.7N	0.69N	1.2N
RF(Min.)	0.49N	0.14N	0.49N	0.14N	0.49N	0.06N	0.14N
PT(Max.)	1.2mm	4.0mm	1.6mm	4.0mm	1.5mm	9.0mm	4.0mm
OT(Min.)	1.0mm	1.6mm	0.8mm	1.6mm	0.8mm	2.0mm	1.5mm
MD(Max.)	0.4mm	1.5mm	0.6mm	1.5mm	0.6mm	2.8mm	1.5mm
OP(mm.)	14.7 ± 0.4mm	15.2 ± 1.2mm	15.2 ± 0.5mm	20.7 ± 1.2mm	20.7 ± 0.6mm	15.2 ± 3mm	18.7 ± 1.2mm

Appearance and Dimension

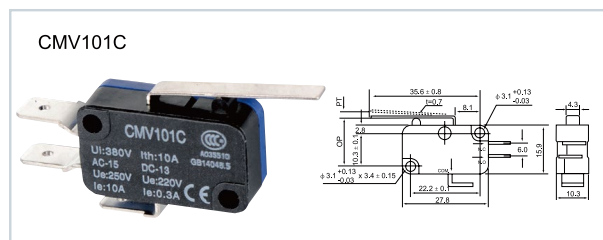
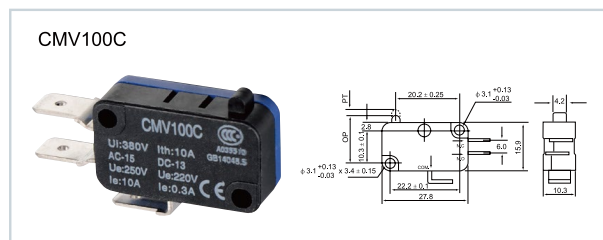


Model Number Structure

CMV 10 0 D

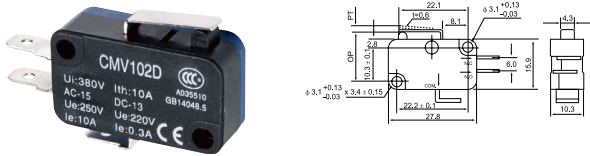
① ② ③

Item	Code	Description
① Rated Current	10	10A
② Head and driving rod	0 1 2 3 4 5 6	Button type Long handle type Short shank type Long pulley type Short pulley type Longer handle type Crank type
③ Terminal specifications	C D	#250 terminal #187 terminal

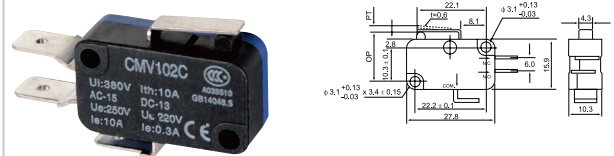


Appearance and Dimension

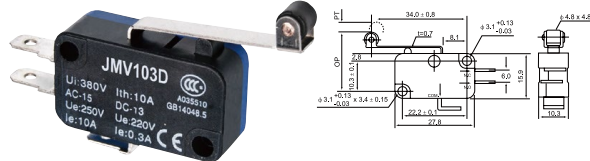
CMV102D



CMV102C

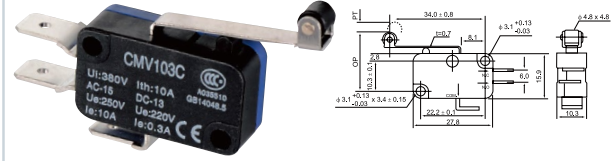


CMV103D



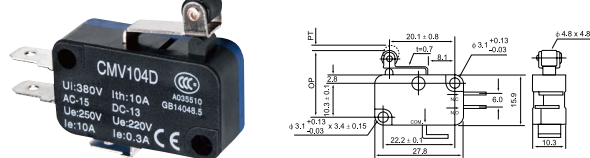
Optional Metal idler wheel

CMV103C



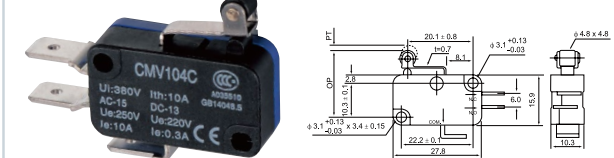
Optional Metal idler wheel

CMV104D



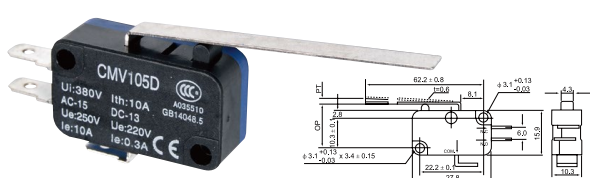
Optional Metal idler wheel

CMV104C

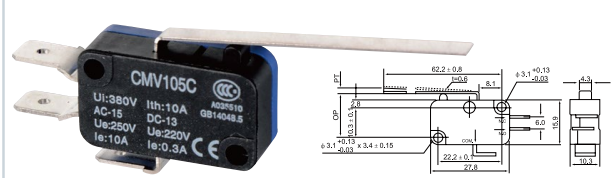


Optional Metal idler wheel

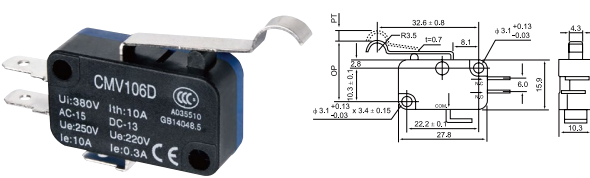
CMV105D



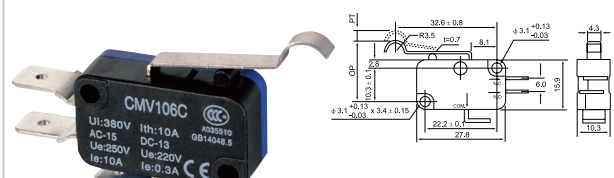
CMV105C



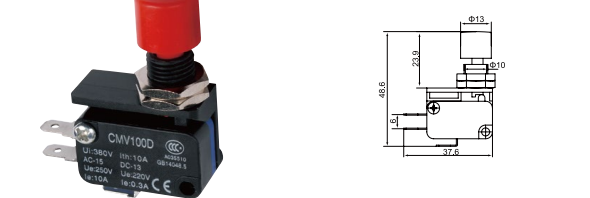
CMV106D



CMV106C



CMVP10-D



CMVP10-C



Ratings

Item Spec.	Rated Voltage	Noninductive 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
16A	250VAC	16		2		10		3		40 max.	
	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			

Specifications

Item	Type	CMV 16 type
Operation speed		0.05mm~1m/s(Button type)
Operating frequency		Electrical: 20 operations/min
Insulation resistance		100mΩ above(at 500VDC)
Contact resistance		15mΩ max. (initial value)
Withstand voltage	Non-continuous terminals	1000VAC, 50/60 Hz for 1 minute
	current-carrying and non-current-carrying metal parts, Between terminal and earthing	2000VAC, 50/60 Hz for 1 minute
Vibration	Misoperation	10 to 55Hz, 1.5mm pairs swing
Shock	Durable	Maximum 1000 m/S ² (100G)
	Misoperation	Maximum 200 m/S ² (100G)
Life	Electrical	More than 300000 times
Temperature		Using: -20~+70℃ (With no icing)
Humidity		(+5~+35℃)Below 85% RH



Model Number Structure

CMV 16 0 0 1 C 2

① ② ③ ④

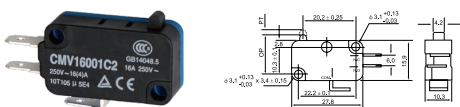
Item	Code	Description
① Rated Current	16	16A
② Head and driving rod	00	Button type
	01	Long handle type
	02	Short shank type
	03	Long pulley type
	04	Short pulley type
	05	Longer handle type
	06	Crank type
③ Contact form	1	1NO/1NC
	2	1NC
	3	1NO
④ Terminal specifications	C	#250 terminal
	C2	#187 terminal

Operating Characteristics

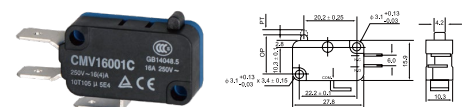
Model	CMV16	CMV16001C2	CMV16011C2	CMV16021C	CMV16031C2	CMV16041C2	CMV16051C2	CMV16061C
Operating force	PT(Max.)	2.4N	1.23N	2.4N	1.23N	2.7N	0.69N	1.2N
Release force	RF(Min.)	0.49N	0.14N	0.49N	0.14N	0.49N	0.06N	0.14N
Pre-travel	PT(Max.)	1.2mm	4.0mm	1.6mm	4.0mm	1.5mm	9.0mm	4.0mm
Over travel	OT(Min.)	1.0mm	1.6mm	0.8mm	1.6mm	0.8mm	2.0mm	1.5mm
Movement differential	MD(Max.)	0.4mm	1.5mm	0.6mm	1.5mm	0.6mm	2.8mm	1.5mm
Operating position	OP(mm.)	14.7 ± 0.4mm	15.2 ± 1.2mm	15.2 ± 0.5mm	20.7 ± 1.2mm	20.7 ± 0.6mm	15.2 ± 3mm	18.7 ± 1.2mm

Appearance and Dimension

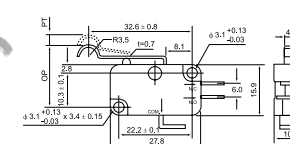
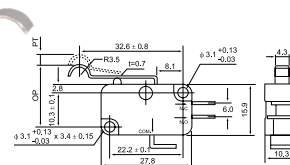
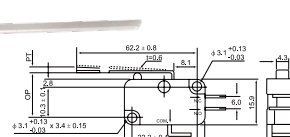
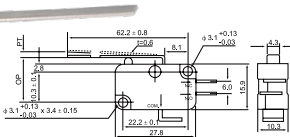
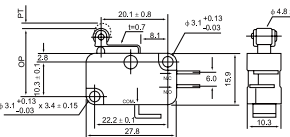
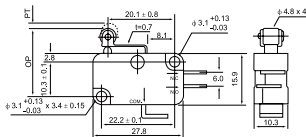
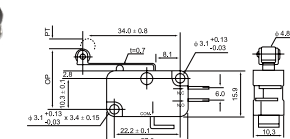
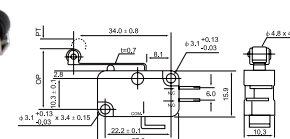
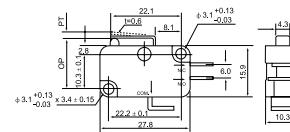
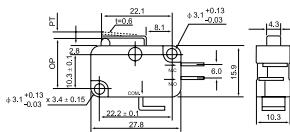
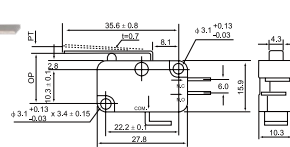
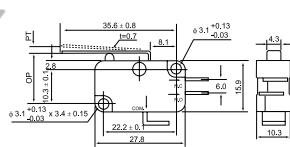
CMV16001C2



CMV16001C



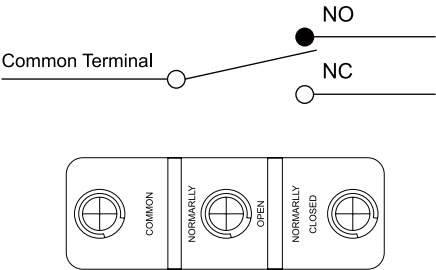
62



Features

- Various actuators and some with adjustable operating position (such as CM1701)
- High accuracy wide range of operation speed

Contact Form



Ratings

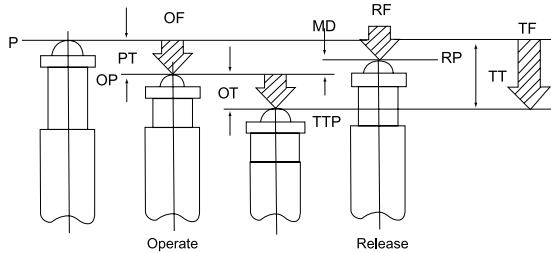
Rated Voltage	Noninductive Load (A)				Inductive Load (A)				Inrush Current	
	Resistance Load		Lamp Load		Inductive Load		Motor Load			
	NC	NO	NC	NO	NC	NO	NC	NO	NC	NO
125VAC	15		3	1.5	15		5	2.5	30 max.	15 max.
250VAC	15		2.5	1.25	15		3	1.5		
500VAC	3		1.5	0.75	2.5		1.5	0.75		
8VDC	15		3	1.5	15		5	2.5		
14VDC	15		3	1.5	10		5	2.5		
30VDC	6(2)		3	1.5	5		5	2.5		
125VDC	0.4		0.4	0.4	0.05		0.05	0.05		
250VDC	0.2		0.2	0.2	0.03		0.03	0.03		

Specifications

Operation speed	0.05mm-1m/s
Operating frequency	Electical: 20 operations/min.
Contact resistance	15mΩ max. (initial value)
Insulation resistance	100mΩ 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	(*10 to 20Hz): 1.5 Vibration amplitude action duration: 10 to 55Hz
Shock	Mechanical durable: 1, 000m/Sec ² (about 100G'S) Malfunction: 300m/Sec ² (about 30G'S)
Ambient temperature	Using: -20~+80℃ (With no icing)
Humidity	General purpose type: 85% RH max., Sealed type: 95% RH max.
Electrical life	500,000 operations above
Weight	About 22 to 58g

Operating Characteristics

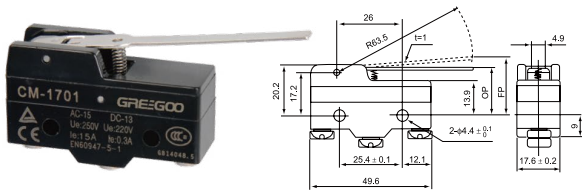
Models	CM1300	CM1301	CM1303 CM1303M	CM1305	CM1306	CM1307	CM1308 CM1308X	CM1309	CM1701 CM1706	CM1702	CM-1703 CM-1703M	CM-1704 CM-1704M	CM1705	CM-1743 CM-1743M
OF(Max.)	350g	300g	300g	350g	350g	350g	350g	350g	70g	160g	100g	160g	10g	160g
RF(Min.)	114g	50g	50g	114g	114g	114g	114g	114g	14g	28g	22g	42g	3g	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 ± 0.8	43.1 ± 0.8



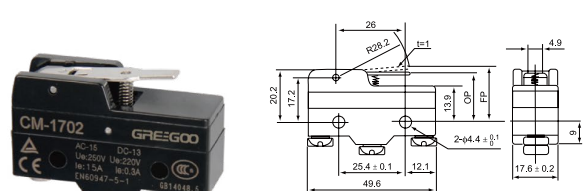
OF: Operating Force
 RF: Releasing Force
 TF: Total Force
 FP: Free Position
 OP: Operating Position
 RP: Releasing Position
 TTP: Total Travel Position
 PT: Pre Travel
 OT: Over Travel
 MD: Movement Differential
 TT: Total Travel

Appearance and Dimension

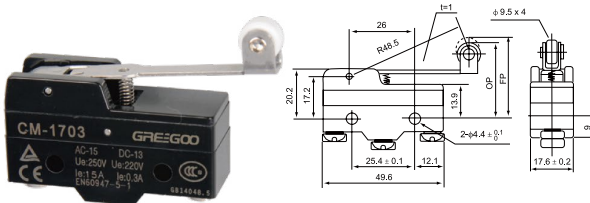
CM-1701



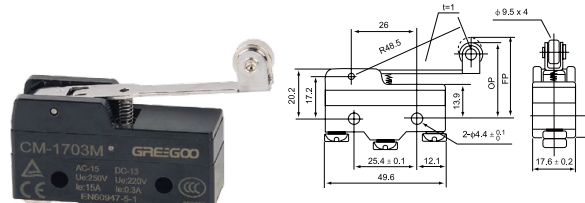
CM-1702



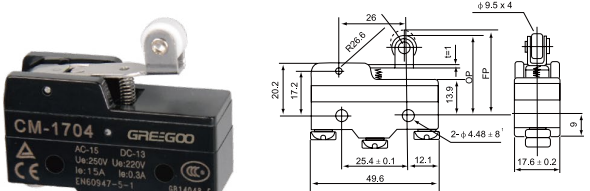
CM-1703



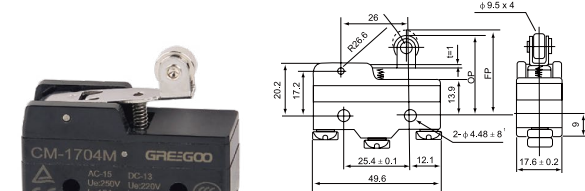
CM-1703M



CM-1704

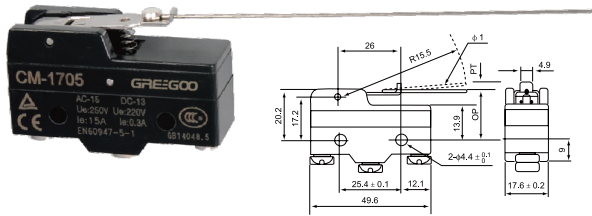


CM-1704M

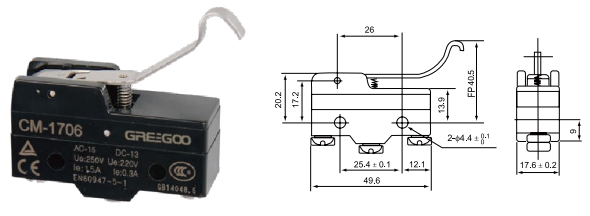


Appearance and Dimension

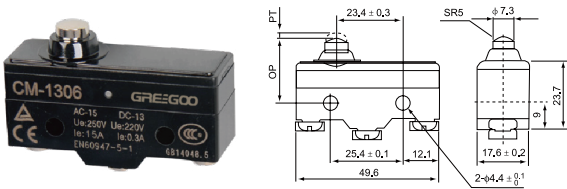
CM-1705



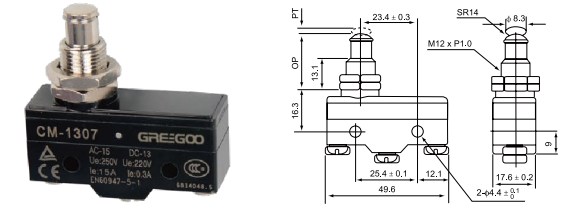
CM-1706



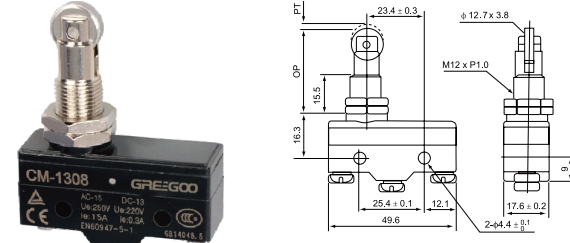
CM-1306



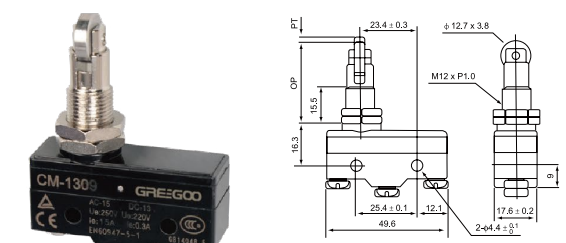
CM-1307



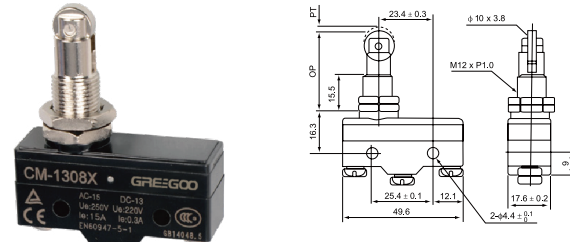
CM-1308



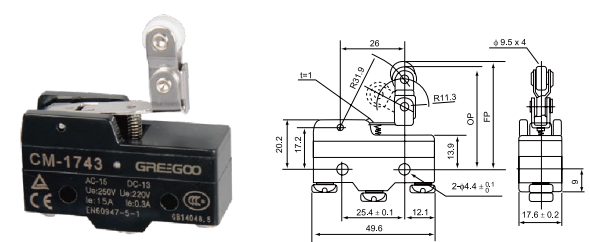
CM-1309



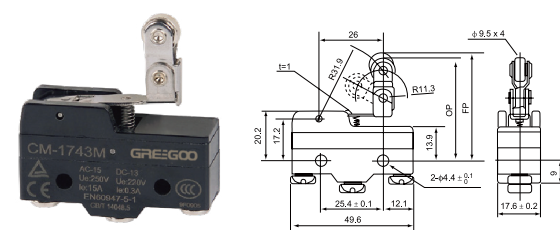
CM-1308X



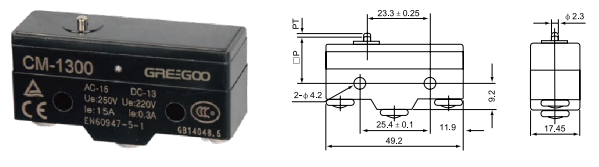
CM-1743



CM-1743M

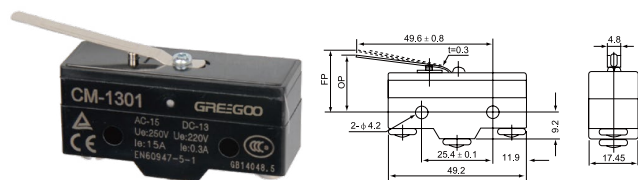


CM-1300

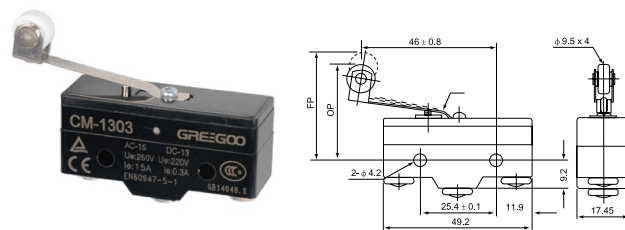


Appearance and Dimension

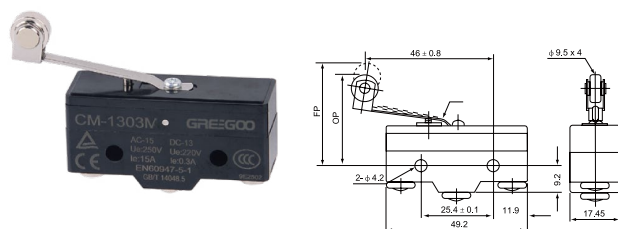
CM-1301



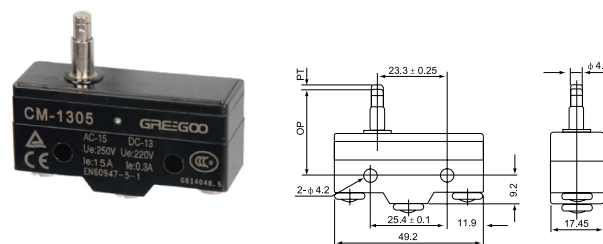
CM-1303



CM-1303M



CM-1305



Terminal Cover

CAP-Y



CAP-C



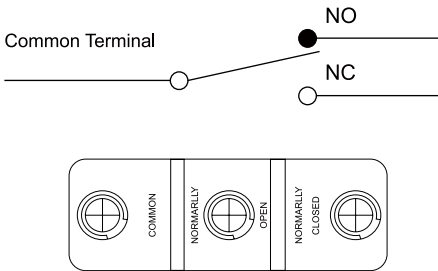
CAP-B



Features

- Engineering plastics shell for resistant construction
- Various actuators and some with adjustable operating position (such as CM1701N)
- High accuracy wide range of operation speed

Contact Form



Ratings

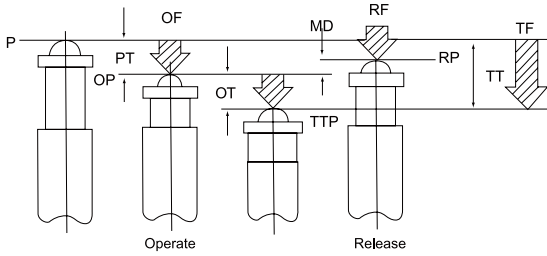
Rated Voltage	Noninductive Load (A)				Inductive Load (A)				Inrush Current	
	Resistance Load		Lamp Load		Inductive Load		Motor Load			
	NC	NO	NC	NO	NC	NO	NC	NO	NC	NO
125VAC	15		3	1.5	15		5	2.5	30 max.	15 max.
250VAC	15		2.5	1.25	15		3	1.5		
500VAC	3		1.5	0.75	2.5		1.5	0.75		
8VDC	15		3	1.5	15		5	2.5	30 max.	15 max.
14VDC	15		3	1.5	10		5	2.5		
30VDC	6(2)		3	1.5	5		5	2.5		
125VDC	0.4		0.4	0.4	0.05		0.05	0.05		
250VDC	0.2		0.2	0.2	0.03		0.03	0.03		

Specifications

Operation speed	0.05mm-1m/s
Operating frequency	Electrical: 20 operations/min.
Contact resistance	15mΩ max. (initial value)
Insulation resistance	100mΩ 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	(*10 to 20Hz): 1.5 Vibration amplitude action duration: 10 to 55Hz
Shock	Mechanical durable: 1, 000m/Sec ² (about 100G'S) Malfunction: 300m/Sec ² (about 30G'S)
Ambient temperature	Using: -20~+70℃ (With no icing)
Humidity	General purpose type: 85% RH max., Sealed type: 95% RH max.
Electrical life	500,000 operations above
Weight	About 22 to 58g

Operating Characteristics

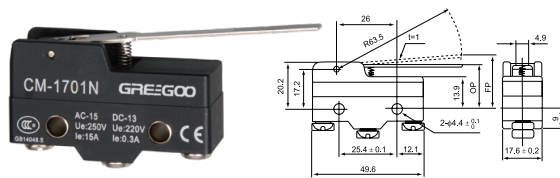
Models	CM1300N	CM1301N	CM1303N CM1303NM	CM1305N	CM1306N	CM1307N	CM1308N CM1308XN	CM1309N	CM1701N CM1706N	CM1702N	CM1703N CM1703NM	CM1704N CM1704NM	CM1705N	CM1743N CM1743NM
OF(Max.)	350g	300g	300g	350g	350g	350g	350g	350g	70g	160g	100g	160g	10g	160g
RF(Min.)	114g	50g	50g	114g	114g	114g	114g	114g	14g	28g	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	33.4 ± 1.2	33.4 ± 1.2	19 ± 0.8	19 ± 0.4	30.2 ± 0.8	30.2 ± 0.4	19 ± 0.8	43.1 ± 0.8



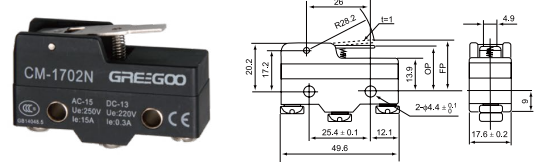
OF: Operating Force
RF: Releasing Force
TF: Total Force
FP: Free Position
OP: Operating Position
RP: Releasing Position
TTP: Total Tavel Position
PT: Pre Travel
OT: Over Travel
MD: Movement Differential
TT: Total Tavel

Appearance and Dimension

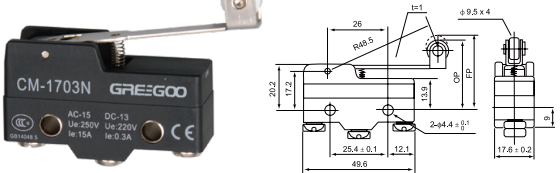
CM-1701N



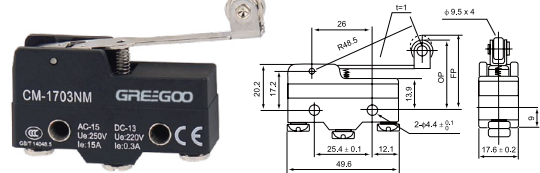
CM-1702N



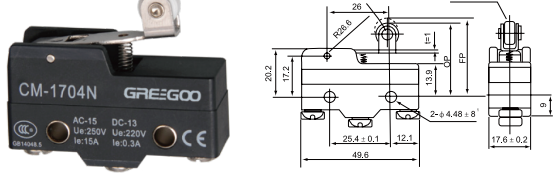
CM-1703N



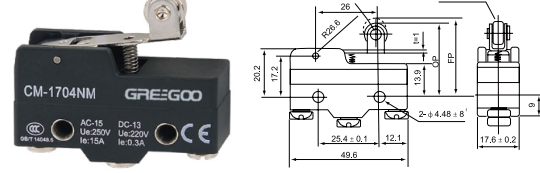
CM-1703NM



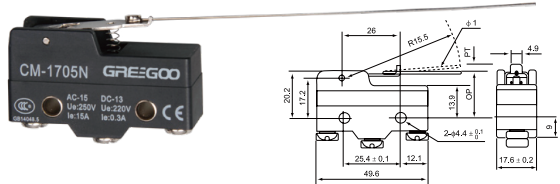
CM-1704N



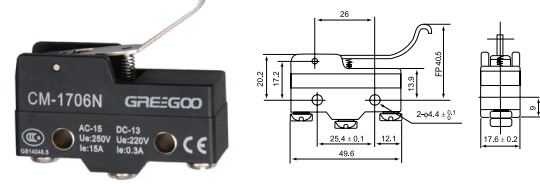
CM-1704NM



CM-1705N

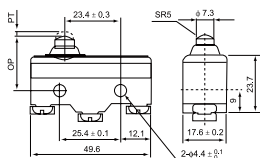


CM-1706N

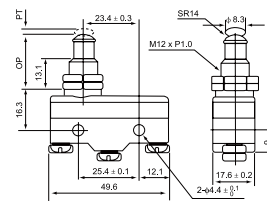


Appearance and Dimension

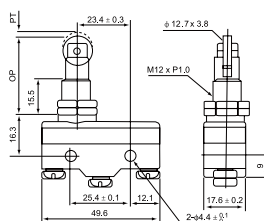
CM-1306N



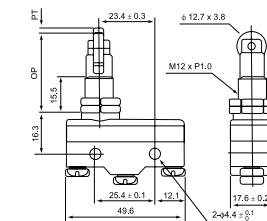
CM-1307N



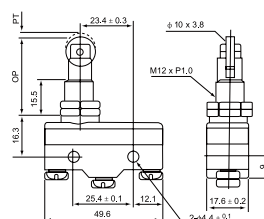
CM-1308N



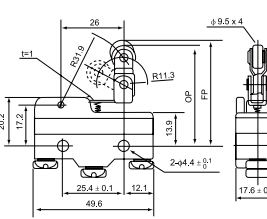
CM-1309N



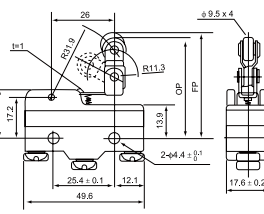
CM-1308XN



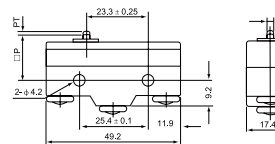
CM-1743N



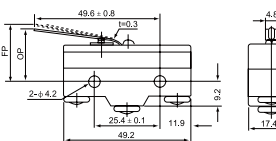
CM-1743NM



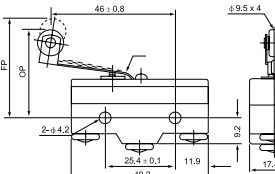
CM-1300N



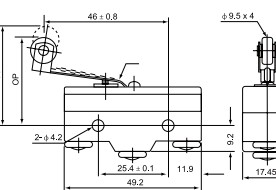
CM-1301N



CM-1303N



CM-1303NM



CM-1305N

