



TOGGLE SWITCH

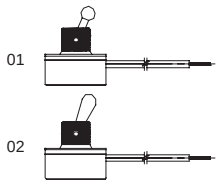
TOGGLE SWITCH TA SERIES

RATING

- 6A 125VAC, 3A 250VLAC (UL)
- 3A 125VAC "L" (UL)
- Electrical life: 6,000 cycles (UL)

FEATURES

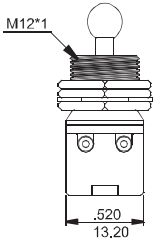
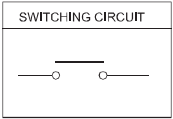
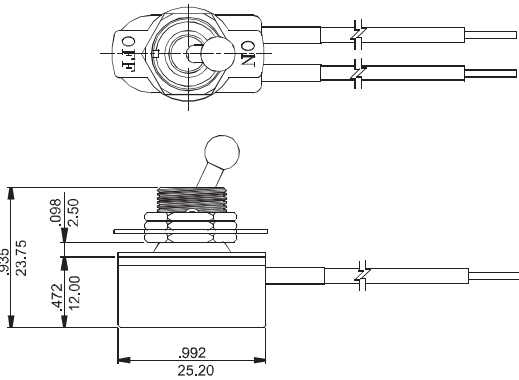
- Bat handle canopy switch.
- Safety approved internationally by UL in North America
- SPST, ON-OFF
- Bushing threaded M12*1.0, Indicator board and nut supplied
- Wire leads Awg#18 UL1015, standard length 165mm

TA	—	01	A	—	A
SERIES SYMBOL	MODEL NUMBER		INDICATOR BOARD	ACCESSORY & WIRE	
TA SERIES			A  B  NN ONE	SEE TABLE	

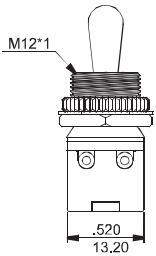
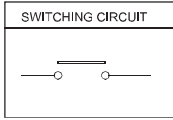
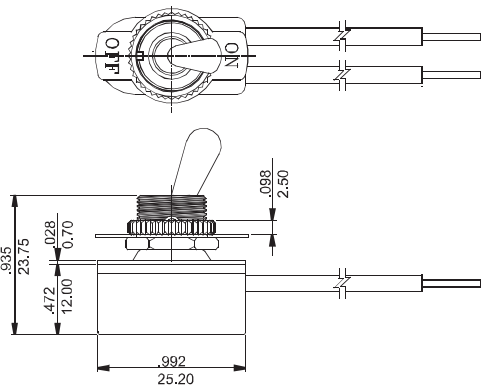
* NOTE: For accessories and wire spec, please consult our sales directly.



TA-01A-D



TA-02A-A



TOGGLE SWITCH

TB SERIES



RATING

- 12A 125VAC/250VAC, 1/2 HP 125VAC, 1HP 250VAC (cURus); 5A 125VL (cURus; for 3 positions)
- Contact resistance : 50m Ω max
- Dielectric Strength: 1500 Volts RMS
- Insulation Resistance: 50 M Ω
- Life: 50,000 cycles

FEATURES

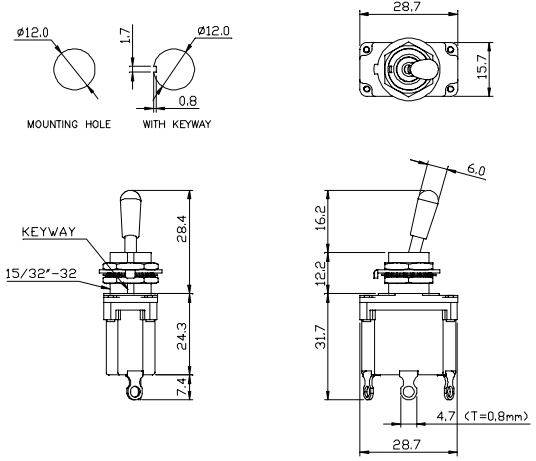
- IP68 protection level for entire switch (passing MIRDC's TAF laboratory test)
- SPST, SPDT, DPST, DPDT
- Metal bat or plastic toggle
- Solder, quick connect, screw type or binding terminals
- hex nut, gasket, and rubber boot accessories available upon request.

TB1	B	1	7
SERIES SYMBOL	LEVER TYPE	TERMINAL TYPE	POSITION & FUNCTION
TB1 SERIES (1 POLE, 3 POS.) TB2 SERIES (1 POLE, 2 POS.) TB3 SERIES (2 POLE, 3 POS.) TB4 SERIES (2 POLE, 2 POS.) *TB5 SERIES (4 POLE, 3 POS.)	P PLASTIC B BRASS	1 QC (.250) 2 QC (.187) 3 SOLDER TERMINAL 4 SCREW TERMINAL *5 BINDING TERMINAL	TWO POSITIONS TB2 (1 POLE) *2 OFF-ON *3 ON-ON 4 (OFF)-ON 6 (ON)-OFF 8 (ON)-ON TB4 (2 POLES) *2 OFF-ON *3 ON-ON 4 (OFF)-ON 6 (ON)-OFF 8 (ON)-ON THREE POSITIONS TB1 (1 POLE) 1 ON-OFF-ON 5 (ON)-OFF-ON 7 (ON)-OFF-(ON) 21 NONE-OFF-ON 31 NONE-ON-ON 61 (ON)-OFF-NONE TB3 (2 POLES) 1 ON-OFF-ON 5 (ON)-OFF-ON 7 (ON)-OFF-(ON) 21 NONE-OFF-ON 31 NONE-ON-ON 61 (ON)-OFF-NONE TB5 (4 POLE) *1 ON-OFF-ON *5 (ON)-OFF-ON *7 (ON)-OFF-(ON) *21 NONE-OFF-ON *31 NONE-ON-ON *61 (ON)-OFF-NONE

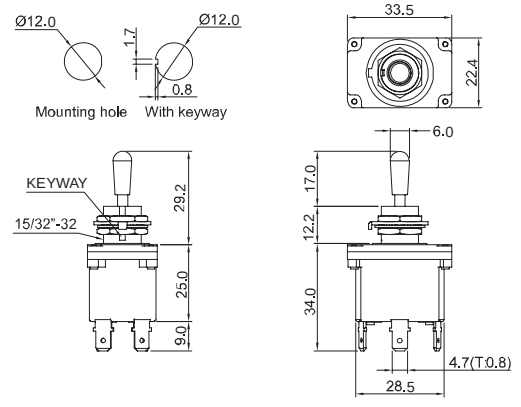
NOTE: "*" WITHOUT UL APPROVAL



TB2-B33
ON-ON



TB3-B27
(ON)-OFF-(ON)

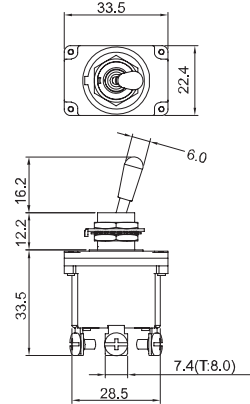
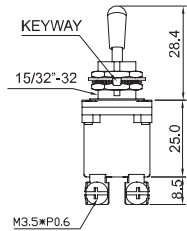
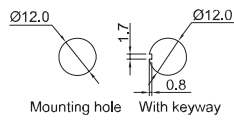


TOGGLE SWITCH

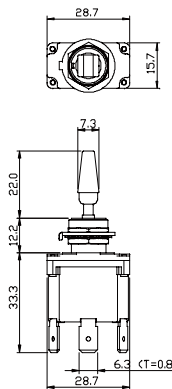
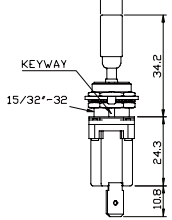
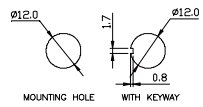
TB SERIES



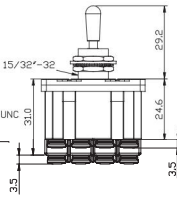
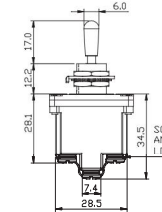
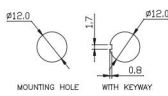
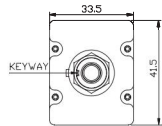
**TB4-B43
ON-ON**



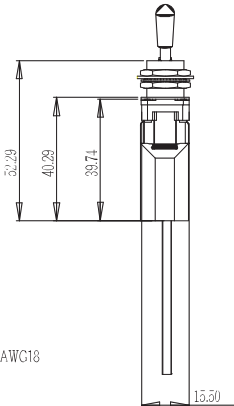
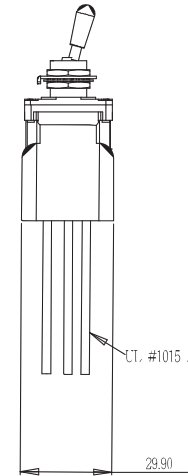
**TB1-P17
(ON)-OFF-(ON)**



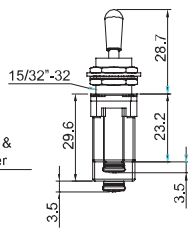
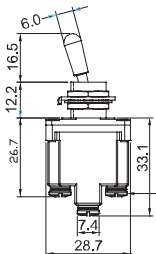
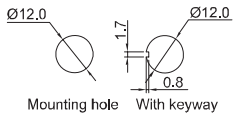
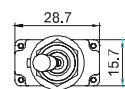
**TB5-B51
ON-OFF-ON**



**TB2-B18-FC
(ON)-ON
Sealed lead terminals**



**TB2-B53
ON-ON**



BOTTOM



RATING

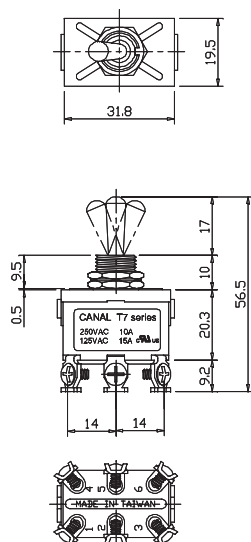
- 15A 125VAC, 10A 250VAC (cURus)
- Contact resistance: 20mΩ max.
- Withstand voltage: 1500VAC for 1 minute
- Insulation resistance: 500VDC 200MΩ min.

FEATURES

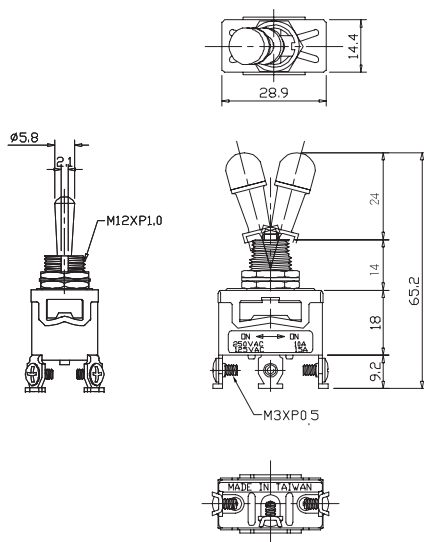
- Contacts: Silver alloy
- Bushing & Actuator: Brass
- Cover: Steel
- Nuts: Steel
- Housing: Phenolic
- Name plate available upon request

T7	A	1	1	A3	B2	H1	R
SERIES	RATING	POLE	FUNCTION	ACTUATOR	BUSHING	TERMINAL	ROHS
T7 SERIES	A 15A 125VAC 10A 250VAC B 20A 125VAC 15A 250VAC	1 - 1 POLE 2 - 2 POLES 3 - 3 POLES 4 - 4 POLES	1 ON-OFF 2 ON-ON 3 ON-OFF-ON 4 (ON)-OFF 5 (ON)-ON 6 (ON)-OFF-ON 7 (ON)-OFF-(ON)	A3 - STANDARD 	B1 8.5mm B2 9.5mm B3 11mm B4 12.5mm	H1 -	R - ROHS
				PL - PLASTIC 	B3 11mm	H2 - H3 -	
				PA - LOCKING * FUNCTION ONLY 1 ON-OFF 2 ON-ON 3 ON-OFF-ON 	B5 14mm	H4 - H5 -	

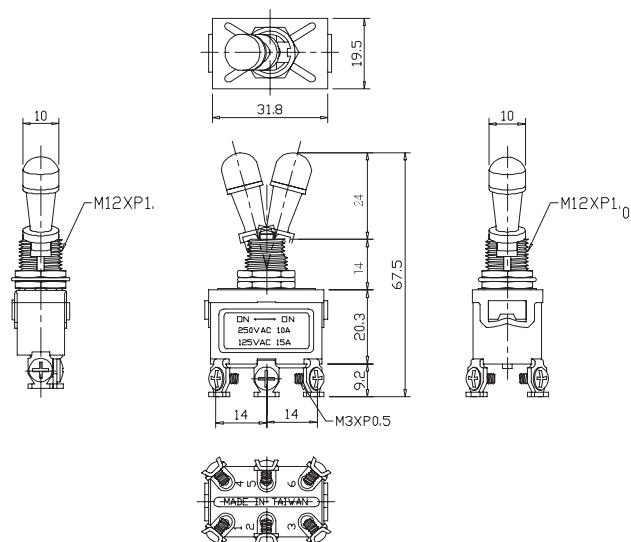
H1	H2	H3	H4	H5
				



T7A27A3B2H2R



T7A12PAB5H2R



T7A22PAB5H2R



TOGGLE SWITCH

A SERIES



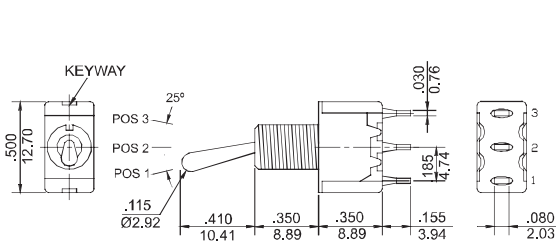
RATING

- 5A 120VAC, 2A 250VAC (cURus)
- 5A 28VDC (cURus)
- Electrical life: 6,000 (UL) cycles

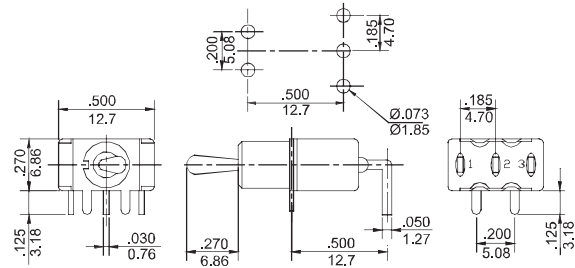
FEATURES

- Safety approved internationally by cURus in North America
- SPST, SPDT, DPST, DPDT, 3PDT, 4PDT
- Complete terminal options, solder, thro-hole and right angle PC terminal
- Hardware accessories supplied for threaded bushing type

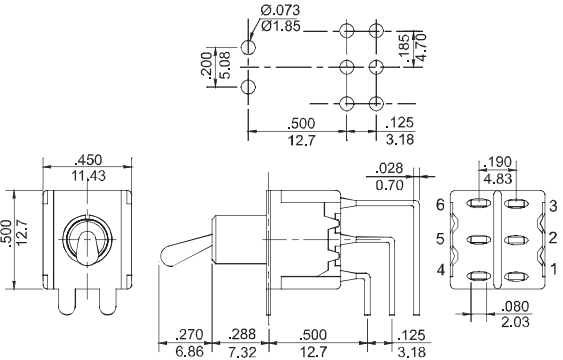
A1	1	0	—	T 0 1		
SERIES SYMBOL	SWITCHING FUNCTION	TERMINAL TYPE		HANDLE TYPE	CONTACT PLATING	EPOXY SEALED
A1 1 POLE A2 2 POLES A3 3 POLES A4 4 POLES	1 ON-ON 2 ON-OFF-ON 3 ON-OFF 4 ON-(ON) 5 (ON)-OFF-(ON) 6 ON-OFF-(ON) 7 OFF-(ON)	0 STANDARD 1 PRINTED CIRCUIT 3 RIGHT ANGLE (H) 4 RIGHT ANGLE (V) 5 VERTICAL BRACKET		T01 W/BUSHING T02 T03 T04	☐ STANDARD SILVER PLATED G ☐ GOLD PLATED OVER NICKEL	☐ NONE E ☐ EPOXY



A120-T01



A113-T03



A214-T03



TOGGLE SWITCH MA SERIES



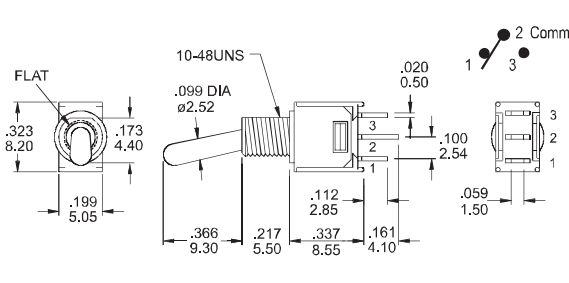
RATING

- 3A 120VAC, 1.5A 250VAC (UL)
- 3A 28VDC
- Electrical life: 6,000 (UL) cycles

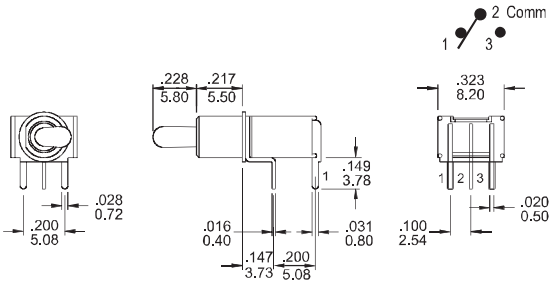
FEATURES

- Safety approved internationally by UL in North America
- SPST, SPDT, DPST, DPDT
- Complete terminals options, solder, pc thro-hole and right angle pc
- Hardware accessories supplied for threaded bushing type

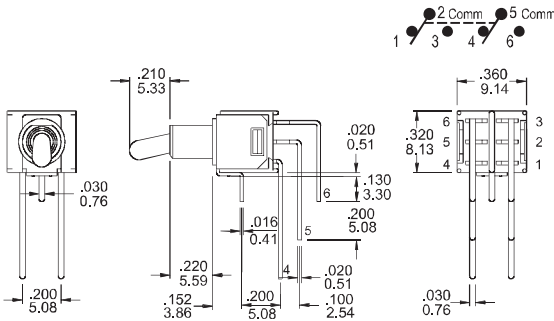
MA1	1	0	T 0 1		
SERIES SYMBOL	SWITCHING FUNCTION	TERMINAL TYPE	TOGGLE & BUSHING	CONTACT PLATING	EPOXY SEALED
MA1 1 POLE MA2 2 POLES	1 ON-ON 2 ON-OFF-ON 3 ON-(OFF) 4 ON-(ON) 7 OFF- (ON) 8 ON-OFF	0 STANDARD 1 PRINTED CIRCUIT 3 RIGHT ANGLE (H) 4 RIGHT ANGLE (V) 5 VERTICAL BRACKET	T01 T02 T03	☐ STANDARD SILVER PLATED ☐ G GOLD PLATED OVER NICKEL	☐ NONE ☐ E EPOXY



MA1-10-T01



MA1-13-T03



MA2-14-T03





SLIDE SWITCH

SLIDE SWITCH

SL13 & 13A SERIES

RATING

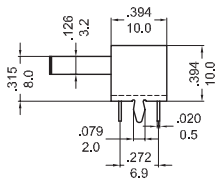
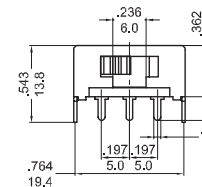
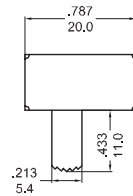
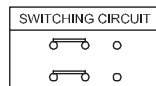
- 1A 125VDC
- Contact resistance: 50mΩ max.
- Insulation resistance: 100 M Ohms min., 500VDC
- Dielectric strength: 1,000 VAC for 1 minute.
- Electrical life: 6,000 cycles

FEATURES

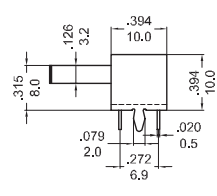
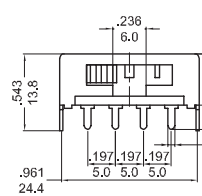
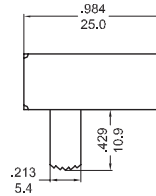
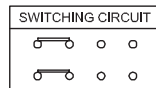
- Side actuator slide type
- Single or double pole, 2 or 3 throws
- PCB mounting



SL13-212C



SL13-213C



RATING

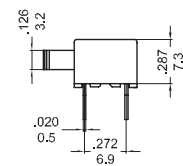
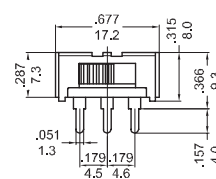
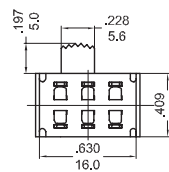
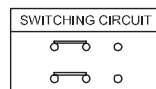
- 3A 125/250VAC
- Contact resistance: 50m Ohms initial max.
- Insulation resistance: 100 M Ohms min., 500VDC
- Dielectric strength: 1,000 VAC-1 minute.
- Electrical life: 6,000 cycles

FEATURES

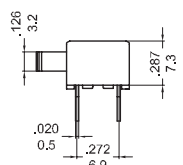
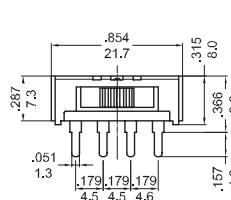
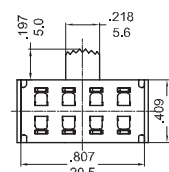
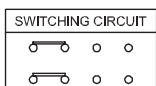
- Side actuator slide type
- Single or double pole, 2 or 3 throws
- PCB mounting



SL13A-221C



SL13A-231C



SLIDE SWITCH

SL13B SERIES

RATING

- 6A 125VAC, 3A 250VAC (cURus)

FEATURES

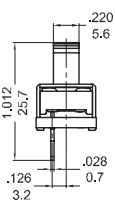
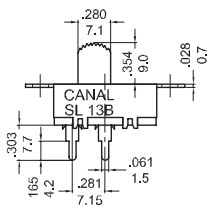
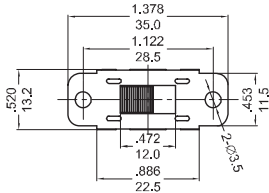
- Safety approved internationally by cURus in North America
- Single or double pole
- Screw and PCB mounting
- Optional actuator type
- Solder, thro-hole and right angle PC terminals

SL13B	—	02	2	B
SERIES SYMBOL	POLE		FUNCTION	TERMINAL TYPE
SL13B SERIES	01 SINGLE POLE	02 DOUBLE POLE	1 SINGLE THROW 2 DOUBLE THROW	A FLAT B 9.0 mm HIGH C 5.8 mm HIGH D 7.0 mm HIGH

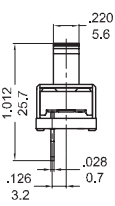
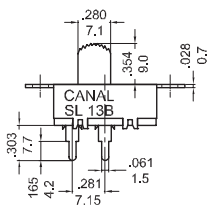
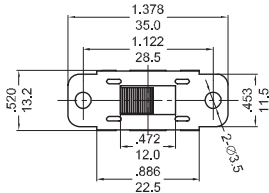
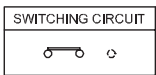
Note: The products options may be too many to be listed fully above, kindly consult our sales directly for more information.



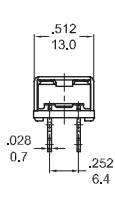
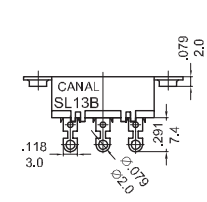
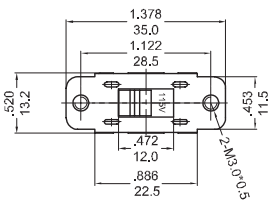
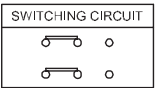
SL13B-011(BHC1)0



SL13B-012(BMC0)0



SL13B-022(AMB0)0



SLIDE SWITCH SL14 SERIES



RATING

- 12A 125/250VAC (cURus)
- 4A 300VAC (cURus)
- 10(1)A~250VAC μ T85/55 1E3 (VDE & ENEC10)
- 4(2)A~250VAC μ T85/55 1E3 (VDE & ENEC10)
- 10A 250VAC 6E3 (CQC)
- 8(2)A 125/250V~T55,T85/55 1E4 (cURus/ENEC15)

FEATURES

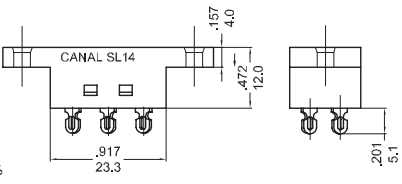
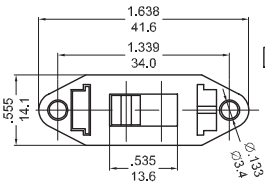
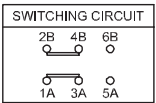
- Safety approved internationally by cURus in North America, VDE & ENEC10 in Europe, CQC in Asia
- SPST, SPDT, SP3T, DPST, DPDT, DP3T
- Screw and PCB mounting type; Solder and PC terminals
- Base material: PBT, Nylon

SL14	2	2	A	M	(1	A)
SERIES SYMBOL	POLE	FUNCTION	ACTUATOR TYPE	MOUNTING TYPE	ACTUATOR COLOR & MARKING	TERMINAL TYPE
SL14 SERIES	1 1 POLE 2 2 POLES	1 1 THROW 2 2 THROWS 3 3 THROWS	A FLAT B 9.0 mm HIGH C 5.8 mm HIGH	M L N	1 115 230 (RED) 2 110 220 (RED) 3 115 230 (BLACK) 4 110 220 (BLACK) 5 NO MARKING	A B C D E

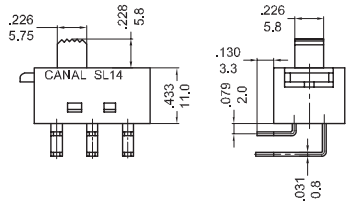
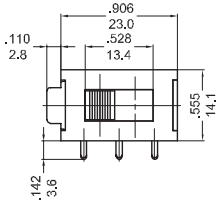
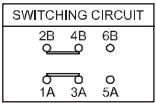
Note: The products options may be too many to be listed fully above, kindly consult our sales directly for more information.



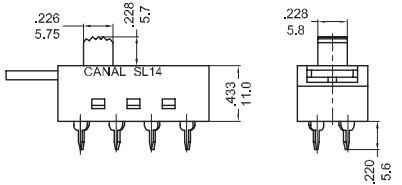
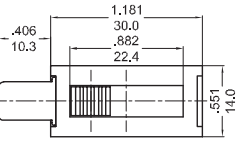
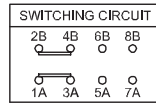
SL14-22AH(5A)N



SL14-22CN(0I)N



SL14-23CJ(0G)N



RATING

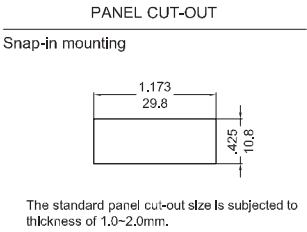
- UL61058 (cURus, ENEC15)
 - a. Max. 12(4)A 125/250V~ μ T55, μ T85/55
 - b. Max. 12A 24Vd.c μ T55, μ T85/55

FEATURES

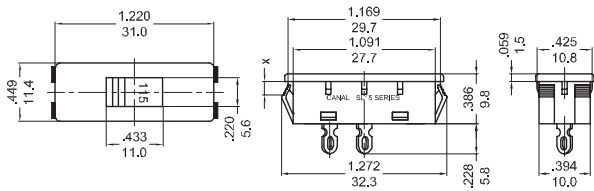
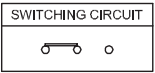
- Standard power switch for PC
- Safety approved internationally by UL, cURus in North America, ENEC10 in Europe, CQC in Asia
- SPST, SPDT
- Screw and Snap in mounting type
- Base material: PBT, Nylon & Phenolic

SL15	—	1	1	A	N	B	M	—	P
SERIES SYMBOL	POLE	THROW	TERMINAL TYPE	ACTUATOR TYPE	BASE MARKING	ACTUATOR MARKING	BASE & MOUNTING TYPE		BASE MATERIAL
SL15 SERIES	1 SINGLE POLE	1 SINGLE THROW 2 DOUBLE THROW	1 SOLDER TERMINAL A BENDING SOLDER TERMINAL	A FLAT	N NONE LETTER OR NUMBER (AVAILABLE FOR J BASE)	A B C NO MARKING	M PHENOLIC B PHENOLIC J NYLON S PHENOLIC		P PHENOLIC

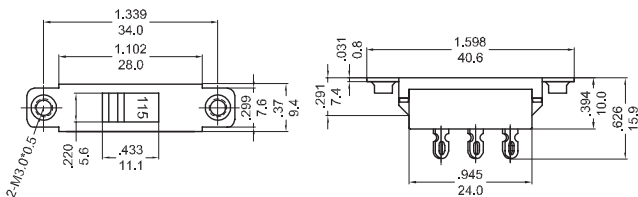
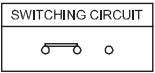
3	A	—	X
PLATING	RATING & TEMPERATURE	SUFFIXES COLOR	
0 ZINC (BLUE-TRIVALENCE-CHROME)	A 12(4)A 125/250VAC T55	BLANK NUMBER OR LETTERS (CUSTOM CODE)	
3 NONE	D 12A (6-24VDC) T55		
4 WHITE ZINC	1 12(4)A 125/250VAC T85		
5 NICKEL PLATING	4 12A (6-24VDC) T85		
B ZINC (BLACK-TRIVALENCE-CHROME)			



SL15-111AJBJ-P3A-1JNN



SL15-121ANBM-P0A-1MCN



SLIDE SWITCH

SL16 & SL19 SERIES



RATING

- 4A 125VAC, 2A 250VAC (cURus)

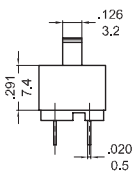
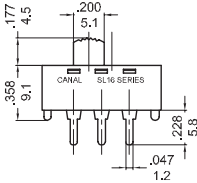
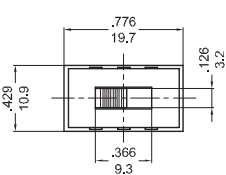
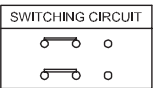
FEATURES

- Safety approved internationally by cURus in North America
- Single or double poles
- For instrumental usage

SL16	(2	4	A	N)	C
SERIES SYMBOL	POLE	SWITCH FUNCTION	ACTUATOR TYPE	MARKING	SPECIAL
SL16 SERIES	1 SINGLE POLE	1 ON-OPN(3PIN)	A 4.5mm HIGH	1 	B HALF EPOXY W/DATE CODE
	2 DOUBLE POLE	4 ON-ON(6PIN) 7 ON-OFF(4PIN)	B 6.0mm HIGH	N NO MARKING	C DATE CODE S LONG PIN W/DATE CODE



SL16-24AN



RATING

- 6A 120VAC, 3A 250VAC (UL)
- 6A 28VDC (UL)

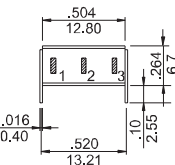
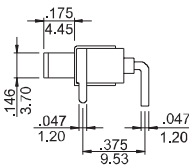
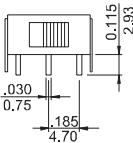
FEATURES

- Safety approved internationally by UL in North America
- SPST, SPDT, DPST, DPDT
- Screw or PCB mounting

SL19	1	2	3
SERIES SYMBOL	POLE	THROW	TERMINAL TYPE
SL19 SERIES	1 SINGLE POLE	1 SINGLE THROW	0 STANDARD
	2 DOUBLE POLE	2 DOUBLE THROW	3 RIGHT ANGLE (H)
			1 PRINTED CIRCUIT
			4 RIGHT ANGLE (V)



SL19-123



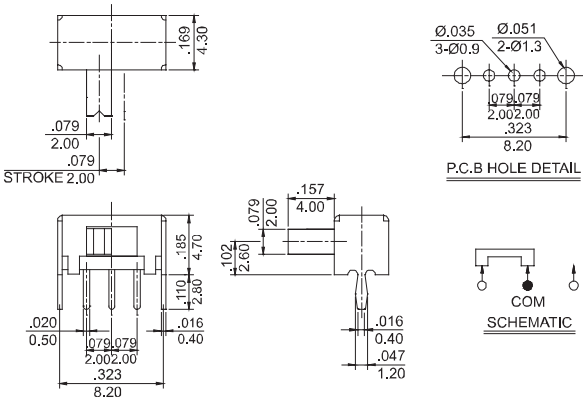
RATING

- 0.3A 30VDC

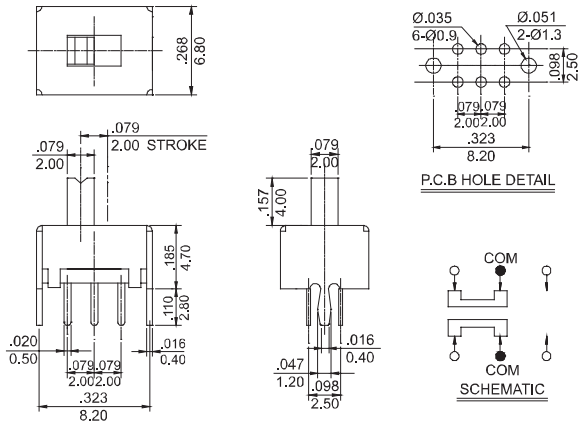
FEATURES

- Vertical and horizontal actuator
- Optional actuator height
- SPDT, DPDT

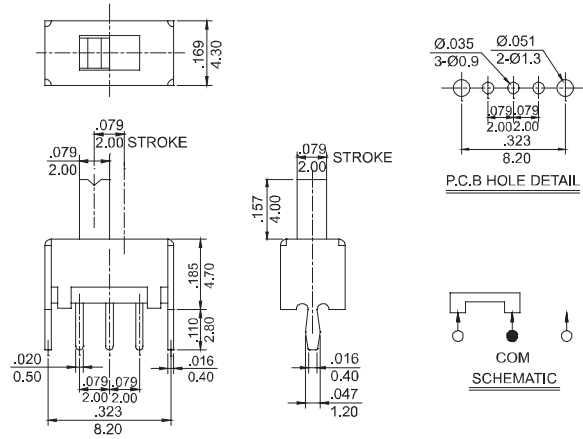
SS008		02P		12
SERIES SYMBOL	ACTUATOR	ACTUATOR HEIGHT		THROW
SS008 SERIES	☐ HORIZONTAL TYPE	01P	2.0 mm	12 SPDT
	☐ VERTICAL TYPE	02P	4.0 mm	22 DPDT
		03P	6.0 mm	



SS008-02P-12



SS008B-02P-22



SS008B-02P-12



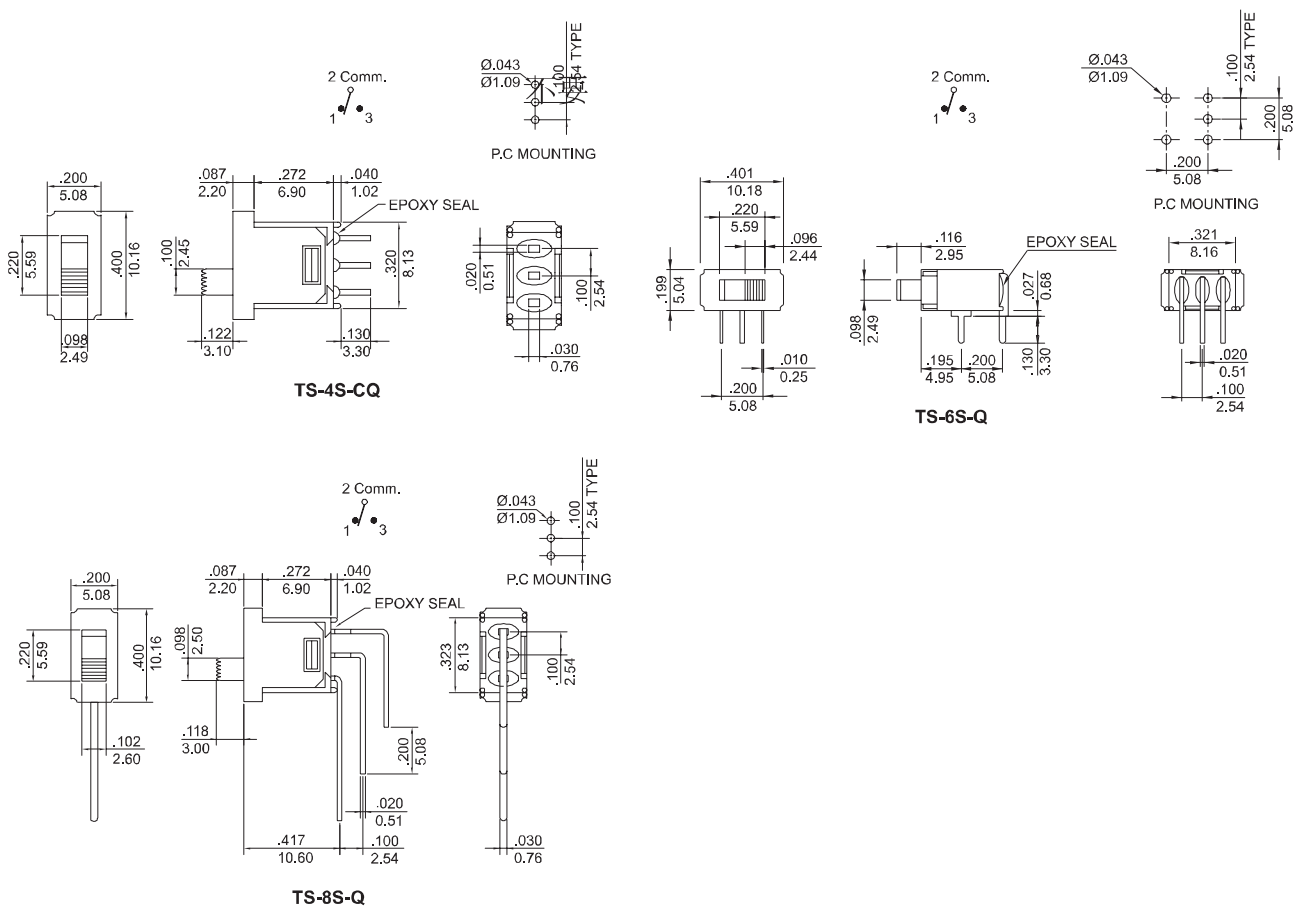
RATING

- 1.5A 250VAC (UL, CUL); 3A 125VAC

FEATURES

- Sub-miniature slide switch
- Gold-plated contact available for low current DC application
- Standard PC thro-hole terminal, PC right angle terminals
- SPDT ON-ON or ON-OFF-ON

TS-6AS	Q	E	H	
FUNCTION & TERMINAL DIRECTION	TERMINAL	CONTACT PLATING	SEALED	RoHS
PC thro-hole type TS-4S ON-ON TS-4AS ON-OFF-ON Horizontal right angle TS-6S ON-ON TS-6AS ON-OFF-ON Vertical right angle TS-8S ON-ON TS-8AS ON-OFF-ON	C PC PINS this code only for TS-4S	Q SILVER PLATED R GOLD PLATED G GOLD OVER SILVER	NONE E EPOXY SEALED	H ROHS





PULL CHAIN SWITCH

PULL CHAIN SWITCH

CS20/50 SERIES

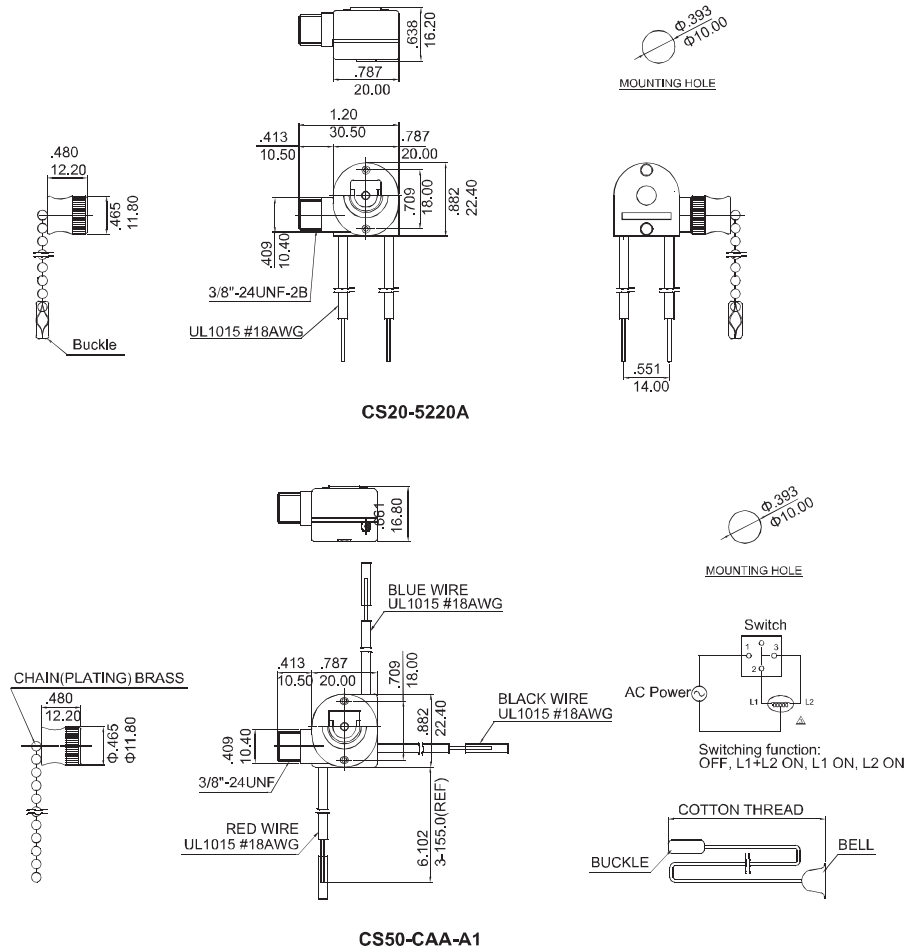


RATING

- CS20-5220: 6A 125VAC, 3A 250VAC 1A 125VL (UL)
- CS50: 6A 125VAC, 3A 250 VAC, 3A 125VAC (CUL)
- Electrical life: 6,000 cycles (CS20-5220)
12,000 cycles (CS50)

FEATURES

- #2 or 4 positioned pull chain switches for lamp industries
- L-rating for tungsten-filament testing
- Wire terminals





MICRO SWITCH

RATING

- 5A 125/250VAC (UL, CUL)
- 5(2) 125/250VAC 40T125 (NEMKO & ENEC17, CQC)
- 10.1 GPA 125/250VAC (cURus)
- 10(2)A 12/250V~μ40T125 1E4 (ENEC05,CQC)
- Contact resistance: 500m Ohms initial max.
- Insulation resistance: 500VDC 100M Ohms min.
- Dielectric strength: 1,000VAC for 1 minute.
- Electrical life: 50,000 cycles

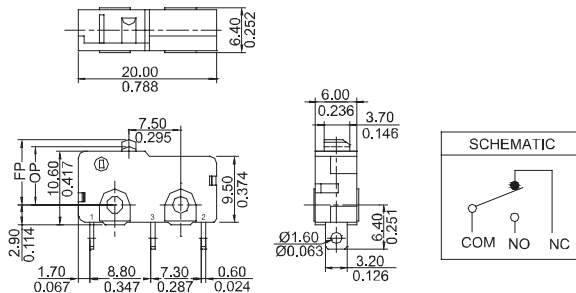
FEATURES

- Sub-Miniature Snap-Action
- Safety approved internationally by UL & CUL in North America, Nemko & ENEC17 in Europe, CQC in Asia
- SPDT, SPST NO, SPST NC
- With or without auxiliary actuator
- Solder, 187 quick-connect and PCB terminal
- Optional operating force
- Screw mounting

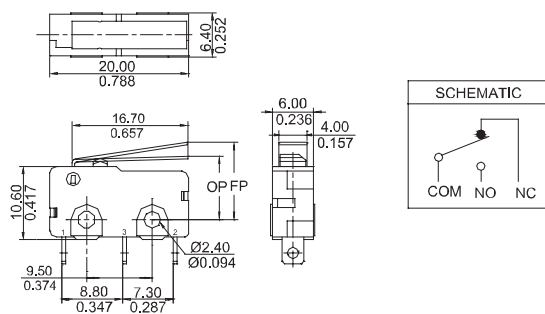
M140T01	A	C	05	01	A
SERIES SYMBOL	CIRCUITRY	OPERATING FORCE	RATING CURRENT	ACTUATOR TYPE	TERMINAL TYPE
M140T01 SERIES	A SPDT B SPST NORMALLY OPEN C SPST NORMALLY CLOSE	SEE CHART	05 5A 125/250 VAC	00 PIN PLUNGER 01 02 05 07 09	A SOLDER TERMINAL B QUICK-CONNECT TERMINAL C PCB TERMINAL

Operating Force Chart

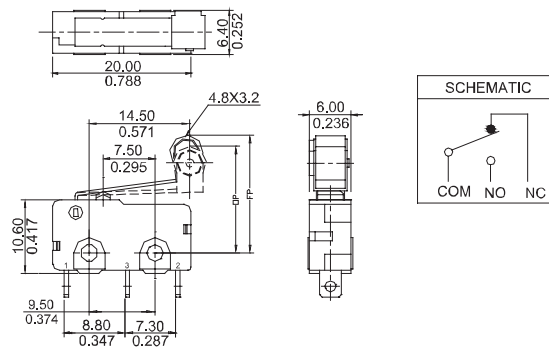
Code	B	C	D	E	OP(mm)	FP(Max.) mm
Actuator						
00	130±30	160±30	200±40	250±50	8.4±0.5	9.4
01	35±15	45±20	55±20	60±20	9.4±1.5	12.6
02	30±15	40±20	50±20	55±20	9.4±1.5	13.1
05	30±15	40±20	50±20	55±20	15.5±1.5	18.9
07	13±5	15±5	20±10	25±15	10.1±2.0	17.1
09	35±15	45±20	55±20	60±20	11.1±1.5	15.3



M140T01-A*05-00A



M140T01-A*05-01A



M140T01-A*05-05A



RATING

- 10A 125/250VAC (UL, CUL)
- 10(2) 125/250VAC 25T130 (NEMKO & ENEC17, CQC)
- 16A 125/250VAC (cURus)
- 1/2HP 125VAC, 3/4HP 250VAC (cURus)
- 16(4)A 12/250V~μ25T130 5E4 (ENEC17, CQC)
- Contact resistance: 500m Ohms initial max.
- Insulation resistance: 500VDC 100M Ohms min.
- Dielectric strength: 1,000VAC for 1 minute.
- Electrical life: 50,000 cycles

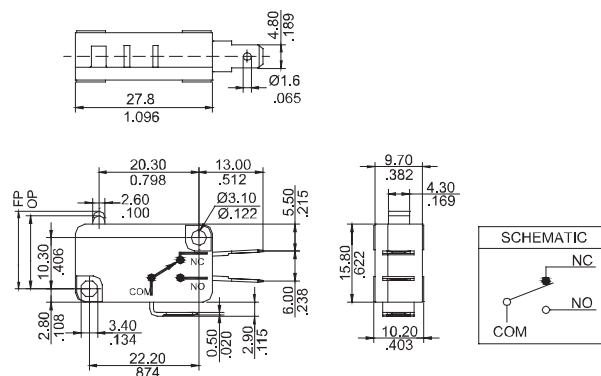
FEATURES

- Miniature Snap-Action
- Safety approved internationally by UL & CUL in North America, Nemko & ENEC17 in Europe, CQC in Asia
- SPDT, SPST NO, SPST NC
- With or without auxiliary actuator
- 187 & 250 quick-connect terminal
- Optional operating force
- Screw mounting

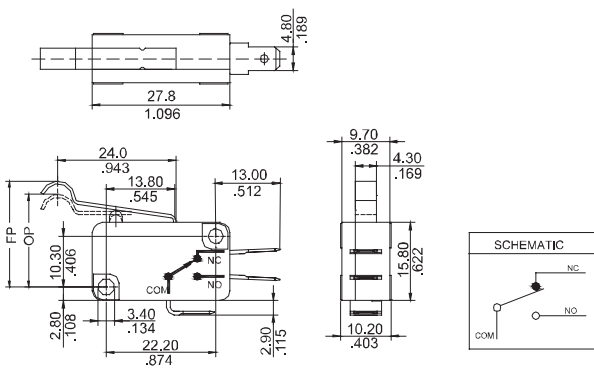
M141T02	A	C	03	02	D
SERIES SYMBOL	CIRCUITRY	OPERATING FORCE	RATING CURRENT	ACTUATOR TYPE	TERMINAL TYPE
M141T02 SERIES	A SPDT B SPST NORMALLY OPEN C SPST NORMALLY CLOSE	SEE BELOW CHART	03 10A 125/250VAC	00 04 01 24.0 02 52.50 03 27.3 04 13.5 05 25.3 06 12.0	C QUICK CONNECT 250 TERMINAL D QUICK CONNECT 187 TERMINAL

Operating Force list

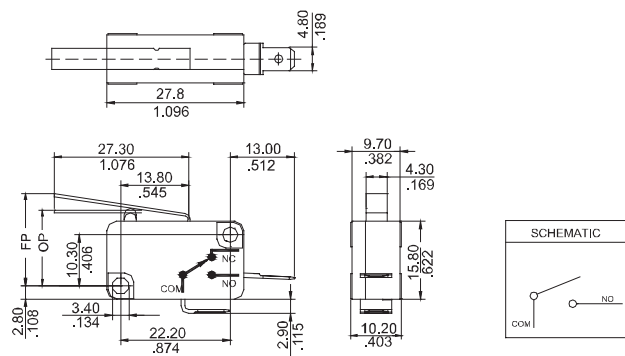
Code	A	B	C	D	OP(mm)	FP(Max.) mm
00	80±25	160±40	200±40	350±60	14.7±0.8	16.4
01	40±20	80±30	100±30	170±40	18.7±1.8	22.0
02	20±10	35±15	40±20	75±30	15.3±2.5	22.0
03	40±20	80±30	100±30	170±40	15.3±1.8	19
04	80±30	160±40	200±40	350±50	15.3±0.8	17
05	40±20	80±30	100±30	170±40	20.7±2.0	24.0
06	80±30	160±40	200±40	350±50	20.7±1.5	22.5



M141T02-AC03-00D



M141T02-AD03-01D



M141T02-BB03-03D



MICRO SWITCH

M142 SERIES



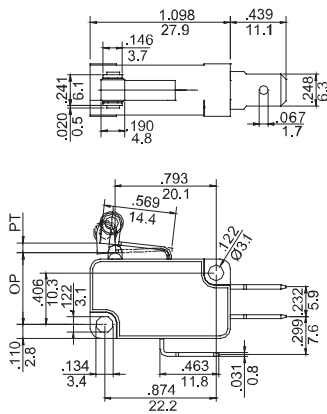
RATING

- 22.5A 125/250VAC (UL, CUL)
- 16A 125/250VAC (UL, CUL)
- 20(8)A 250VAC 5E4 (NEMKO & ENEC17)
- 16(8)A 250VAC ~T125 1E4 (NEMKO & ENEC17)
- 25(10)A 250VAC ~T125 1E4 (NEMKO & ENEC17)
- Electrical life: 6,000 cycles

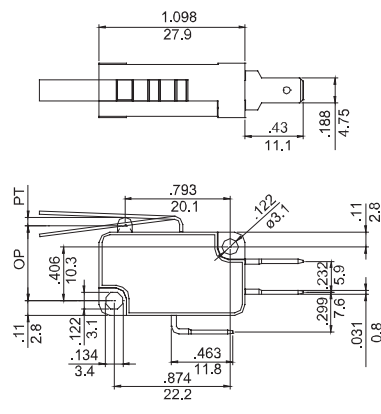
FEATURES

- Safety approved internationally by UL & CUL in North America, Nemko & ENEC17 in Europe
- SPDT, SPST NO, SPST NC
- With or without auxiliary actuator
- 187 & 250 quick-connect terminal
- Highest rating up to 25(10)A 250VAC
- Screw mouting

M142	A	A	0	1	B	B	4	C
SERIES	CIRCUITRY	RATING	TERMINAL	PLUNGER TYPE	ACTUATOR COLOR	BASE COLOR	OPERATING FORCE	SPECIAL
M142 SERIES	A SPDT B SPST NORMALLY OPEN C SPST NORMALLY CLOSE	A 22.5A 125/250VAC B 25A 125/250VAC	0 QUICK-CONNECT - 6.3mm (.250) 1 QUICK-CONNECT - 4.8mm (.187)	1 2 4 5	A GRAY B BLACK W WHITE	A GRAY B BLACK W WHITE	4 400 ± 100gf	C DATE CODE



M142-AA0-4BB-4C



M142-AA1-5BB-4C



MICRO

- 10.1GPA 125/250V~μ40T125/55 (cURus)
6GPA 125/250V~μ40T125/55
3GPA 125/250V~μ40T125/55
0.1GPA 125/250V~μ40T125/55
- 8(2.5)A 125/250V~μ40T125/55 2E4 (ENEC05)
6(2.5)A 125/250V~μ40T125/55 5E4
3(2.5)A 125/250V~μ40T125/55 5E4
0.1A 125/250V~μ40T125/55 5E4
- Initial contact resistance: 100m ohm (max.)
- Insulation resistance: 100M ohm (min.) at 500VDC
- Dielectric strength: 1,000VAC for 1 minute

- Safety approved internationally by cURus North America, ENEC in Europe, CQC in Asia
- IP67 protection level (cURus , ENEC, CQC)
- Mechanical life: up to 800,000 cycles
- Electrical life: 10,000 cycles
- Function: SPST-NC, SPST-NO or SPDT
- A wide range of temperature rating, confirming to 40T125/55
- Applications in automotive electronics, appliance and Industrial control

A	X
TERMINL TYPE	SUFFIXES
A SOLDER	BLANK OR
C PC	LETTER NUMBER

Operating Force Actuator Type	A	B	CD		OP (mm)	FP (Max (mm)
00	**	180±50gf	**	**	8.4±0.4	9.4
02	**	70±40gf	**	**	9.4±1.5	13.1

Technical drawing of the 2425-1000 relay, showing front, side, and detail views with dimensions in mm.

Front View Dimensions:

- Overall width: 6.4
- Mounting hole diameter: Ø1.6
- Base width: 6.4
- Base height: 2.8

Side View Dimensions:

- Overall height: 5.6
- Terminal pitch (PT): 2.54
- Terminal offset (OP): 0.10
- Terminal width: 0.65
- Internal width: 6.95
- Internal width: 6.75
- Internal width: 5.2
- Internal width: 8.9
- Internal width: 9.5
- Internal width: 19.9
- Internal width: 2.4
- Internal width: 0.6

Detail View Dimensions:

- Internal width: 5.2
- Internal width: 8.9
- Internal width: 9.5
- Internal width: 19.9
- Internal width: 2.4
- Internal width: 0.6

Terminal and Contact Labels:

- COM (Common)
- NO (Normally Open)
- NC (Normally Closed)
- C (Contact)
- Ø2.5 (Terminal diameter)

[illegible]

CHARACTERISTICS	
Operating Force	70±40gf max.
Release Force	5gf min.
Pre Travel	4.8mm
Over Travel	0.7mm min.
Differential Travel	0.8mm max.
Free Position	13.1mm max.
Operating Position	9.4±1.5mm

M16-BB06-02A



RATING

- 3A 125/250VAC 1.5A 250VAC (UL)
- 1A 125VAC (UL); DC5V 30mA
- Contact resistance: 100m Ohms initial max.
- Insulation resistance: 500VDC 100M Ohms min.
- Dielectric strength: 500VAC 1min.
- Electrical life: 10,000 cycles (UL)
500,000 (DC5V 30mA)

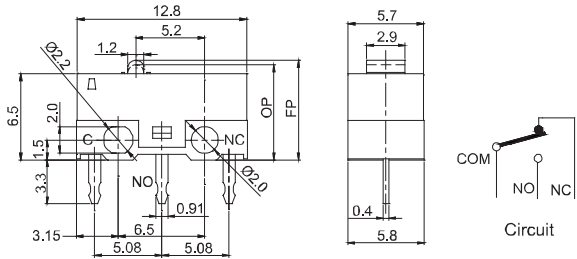
FEATURES

- Sub-Miniature Snap-Action, size 12.8x5.8x6.6mm
- Safety approved internationally by UL in North America
- SPDT circuit
- With or without auxiliary actuator
- Solder and PC terminals
- Optional operating force
- Screw mounting

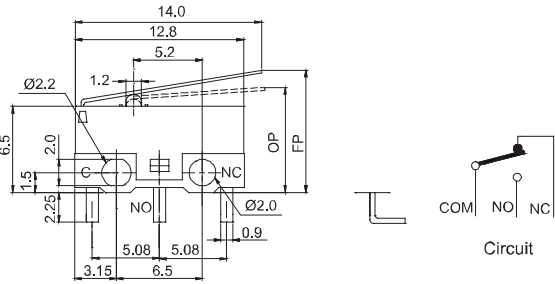
DM	1	—	01	P	—	30	—	3
SERIES SYMBOL	RATING		ACTUATOR TYPE		TERMINAL TYPE		OPERATING FORCE	BUTTON COLOR
DM SERIES	1	1A 125V	00	NONE	P	PC TERMINAL STRAIGHT	SEE CHART	3 WHITE -1A
	3	3A 125V	01		C			6 GRAY-3A
			02		D			
			03		N			

OPERATING FORCE

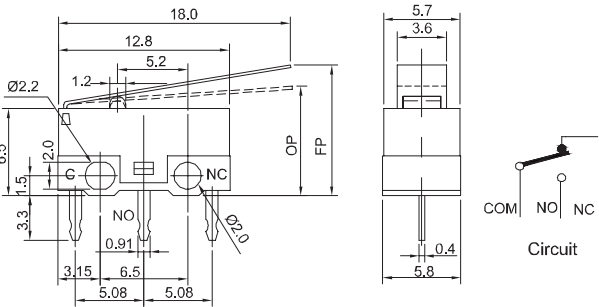
ACTUATOR	OPERATING FORCE(gf)				OP(mm)	FP(Max.) mm
00	60	90	110	130	7.0±0.2	7.35±0.2
01	20	25	30	40	8.8±0.8	10.4±0.8
02	20	25	30	40	8.8±0.8	10.4±0.8
03	15	20	25	35	8.8±0.8	10.4±0.8



DM1-00P



DM1-01D



DM1-03P



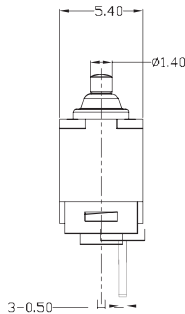
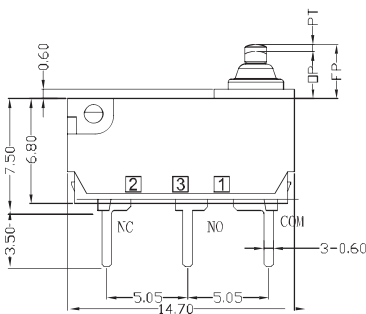
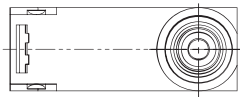
RATING

- 0.1A 125/250VAC 48VDC, 3A 12VDC (cURus)
- 0.1A 125/250VAC 48VDC, 3A 12VDC μ 40T85 1E5 (NEMKO & ENEC17, CQC)
- Contact resistance: 100m ohm max. (Without wire type)
- Insulation resistance: 500VDC 100M Ohms min.
- Dielectric strength: 500VAC for 1 minute.
- Electrical life: 6,000 cycles

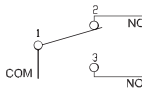
FEATURES

- IP67 protection level for wire type (NEMKO & ENEC17, CQC)
- SPST-NC, SPST-NO or SPDT
- Wide range of wiring terminals and levers
- Function: SPST-NC, SPST-NO or SPDT
- With or without posts, left side or right side posts
- Applications in automotive electronics, appliance and Industrial control a

G3	03	—	130	S	00	A
SERIES SYMBOL	RATING	OPERATING FORCE	TERMINAL TYPE	LEVER TYPE	CIRCUIT	
G3 SERIES	03 0.1A 125VAC 0.1A 250VAC 0.1A 48VDC 3A 12VDC	130 130gf MAX OTHER	SEE CHART(1)	00 PIN PLUNGER OTHERS PLEASE SEE CHART (2)	A SPDT  B SPST - NC  C SPST - NO 	
2	A	—				
SHAPE & POST	POST DIMENSION	AWG NO.	CABLE SPEC	CABLE LENGTH		
1 A TYPE NO POST 2 A TYPE LEFT SIZE POSTS 3 A TYPE RIGHT SIZE POSTS 4 B TYPE NO POST 5 B TYPE LEFT SIZE POSTS 6 B TYPE RIGHT SIZE POSTS 13 C TYPE NO POST 14 C TYPE LEFT SIZE POSTS 15 C TYPE RIGHT SIZE POSTS 16 D TYPE NO POST 17 D TYPE LEFT SIZE POSTS 18 D TYPE RIGHT SIZE POSTS A, B, C, D TYPE SEE CHART (3)	 Ø 2.6mm*5mm (STANDARD) A Ø2.2mm*0.9mm B Ø2.5mm*1.5mm ... OTHER	 NONE E #20 F #22 G #24 H #26 I #28 J #30 K #32 L #34	 NONE A UL 1007 C UL 1430 D UL 1061 E UL 1330 F AVSS H UL 1332	 300mm (STANDARD) ... OTHER		



Circuit Diagram



G303-130P00A1

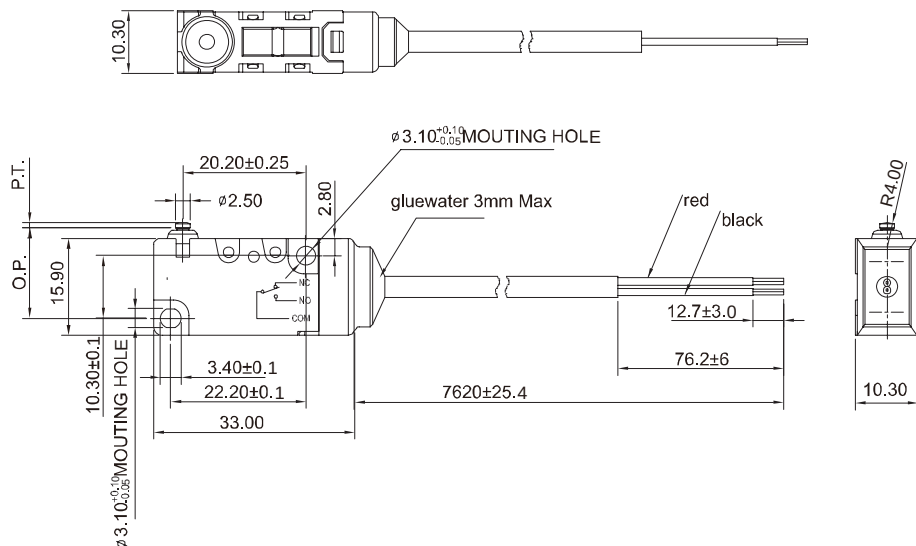
RATING

- W1 0.1A 48VDC, 0.1A 125/250VAC T85(cURus)
0.1A 48VDC, 0.1A 125/250VAC μ 40T85 5E4
(NEMKO & ENEC17, CQC)
- W2 5A 30VDC, 5A 125/250VAC T85(cURus)
5A 30VDC, 5A 125/250VAC μ 40T85 5E4
(NEMKO & ENEC17, CQC)
- W3 10.1A 1/10HP 125/250VAC, 0.5A 125VDC, 0.25A
125VDC T85(cURus); 10(2)A 125/250VAC, 0.5A
125VDC, 0.25A 250VDC μ 40T85 5E4 (NEMKO &
ENEC17, CQC)

FEATURES

- IP67 protection level for wire type (NEMKO & ENEC17, CQC)
- SPST-NC, SPST-NO or SPDT
- Wide range of wiring terminals and levers
- Applications in automotive electronics, appliance and Industrial control
- Contact resistance: 100m Ohms max.(Without wire type)
- Insulation resistance: 500VDC 100M Ohms min.
- Dielectric strength: 1,000VAC for 1 minute.
- Electrical life: 10,000 cycles

G5W11	W	Z	015	A	A	A
SERIES SYMBOL	TERMINAL TYPE	CIRCUIT	OPERATING FORCE	LEVER	LEVER TYPE	SPECIA;
G5W11 SERIES	E 4.7mm (187) QUICK-CONNECT W WIRE	Z SPDT P SPST-NO C SPST-NC	015 15gf 025 25gf 050 50gf 100 100gf 200 200gf	☐ PIN PLUNGER ONLY A WITH LEVER	☐ PIN PLUNGER OTHER PLEASE SEE TABLE	W1 RATING 1 UL 1015 #24 W2 RATING 2 UL 1015 # 20 W3 RATING 3 UL1015 #18 STANDARD WIRE LENGH 300mm



G5W11-WC100A01-W2

RATING

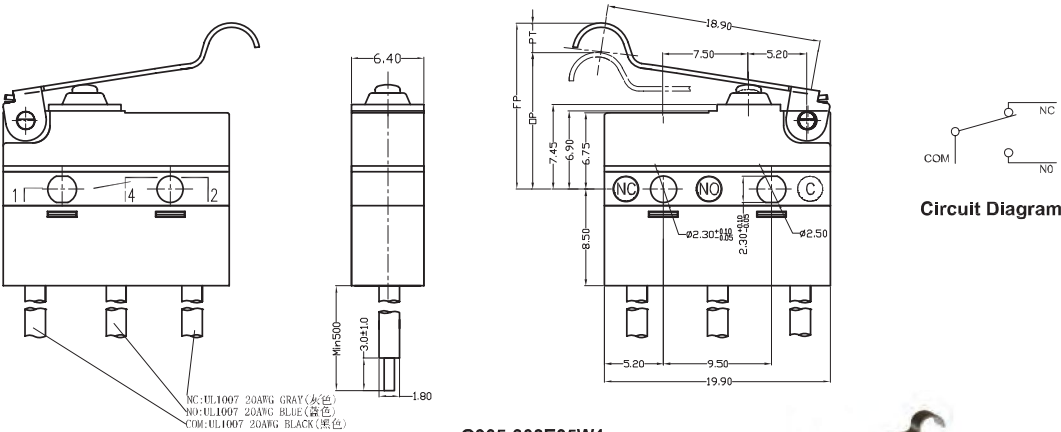
- G905: 5A 125/250VAC (cURus)
- 6A 125/250VAC μ 25T120 1E4 (NEMKO & ENEC17, CQC)
- G9P1: 0.1A 125/250VAC 48VDC (cURus)
- 0.1A 125/250VAC 48VDC μ 25T120 5E4 (NEMKO & ENEC17, CQC)
- Contact resistance: 100m ohm max.
- Insulation resistance: 500VDC 100M Ohms min.
- Dielectric strength: 1000VAC for 1 minute.
- Electrical life: 6,000 cycles

FEATURES

- IP67 protection level for wire type (NEMKO & ENEC17, CQC)
- SPST-NC, SPST-NO or SPDT
- Wide range of wiring terminals and levers
- With or without posts, left side or right side posts
- Applications in automotive electronics, appliance and Industrial control

G9	05	150	S	00	D
SERIES SYMBOL	RATING	OPERATING FORCE	TERMINAL TYPE	LEVER TYPE	CONSTRUCTION
G3 SERIES	P1 0.1A 125/250VAC 48VDC 05 6A 125/250VAC 5A 125/250VAC	150 150gf MAX 200 200gf MAX 300 300gf MAX	SEE CHART(1)	00 NONE 01 SHORT STRAIGHT LEVER 17.7mm 02 STD. STRAIGHT LEVER 19.7mm 03 LONG STRAIGHT LEVER 25.8mm 05 SIMULATED ROLLER LEVER 18.9mm 06 ROLLER LEVER 15.7mm	D DUST PROOF NO WIRE TYPE W WATER PROOF IP67. FOR WIRE TYPE

1				
CIRCUIT	SPECIAL	AWG NO.	CABLE SPEC	CABLE LENGTH
1 SPDT 2 SPST - NC 3 SPST - NO	☐ STANDARD GENERAL 25T120 A GOLD PLATED CONTACTS (G9P1) D DC RATING SPECIAL USE	☐ NONE E #20 F #22 G #24 H #26 I #28 J #30 K #32 L #34	☐ NONE A UL 1007 B UL 1569 C UL 1430 D UL 1061 E UL 1330 F AV/SS G UL 3266 H UL 1332 K UL 1015	☐ 500mm (STANDARD) ... OTHER



RATING

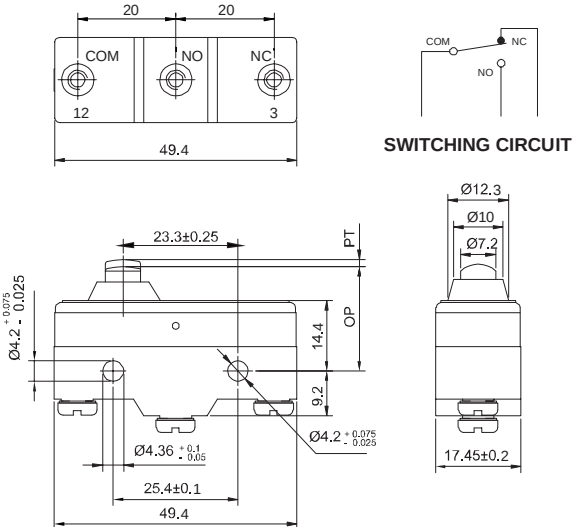
- 15A 125/250VAC (UL/CUL)
- 1/8HP 125VAC, 1/4HP 250VAC
- 1/2A 125VDC, 1/4A 250VDC
- Initail contact resistance: 15m ohm (max.)
- Insulation resistance : 100M ohm (min.) at 500VDC
- Dielectric strength : 1,000VAC for 1 minute

FEATURES

- Safety approved internationally by UL/CUL North America, CE in Europe, CQC/CCC in Asia
- Mechanical life: up to 20,000,000 cycles (pillar type),
- Electrical life: up to 500,000 cycles
- Ambient temperature & humidity: -25°C~80°C, 85%RH (Max.)
- Splash protected type available

RZ		15	G	W21					
SERIES SYMBOL	RATING		CONTACT GAP	ACTUATOR TYPE					
RZ SERIES	15 15A/250VAC		H 0.25mm (HIGH SENSITIVE) G 0.5mm (STANDARD) F 1.0mm (HIGH CAPACITY) E 1.8mm (HIGH CAPACITY)	D	SHORT PILLAR		W	LEVER	
				Q	THREAD PILLAR		W2	LEVER + ROLLER	
				Q21	THREAD PILLAR + ROLLER (CROSS)		W21	SHORT LEVER	
				Q22	THREAD PILLAR + ROLLER		W22	SHORT LEVER + ROLLER	

PROTECTION	TERMINAL TYPE
☐ NONE F SPLASH WATER TYPE AF SPLASH WATER TYPE (INCLUDING TERMINAL)	B CUP WASHER TYPE B3 NON-SLIP WASHER TYPE (STANDARD) B5 SPRING WASHER TYPE



PERFORMANCE ITEM	
OF	250~350gf
RF (Min.)	114gf
PT (Max.)	0.4mm
MD (Max.)	0.05mm
OT (Min.)	1.6mm
OP	21.5±0.5mm
Mechanical life	20,000K cycles
Electrical life	500K cycles



RZ-15GD-B3



RZ-15GQ21-B3



RZ-15GW21-B3

SSM SERIES

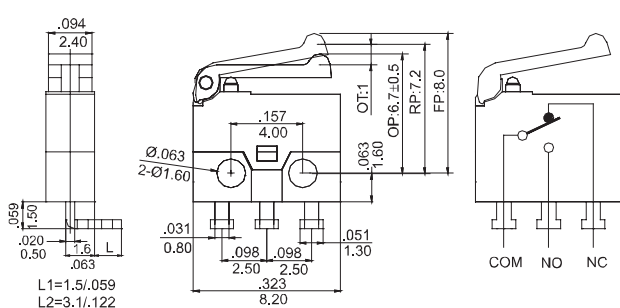
RATING

- 30VDC, 300mA
- Electrical life: 300,000 cycles

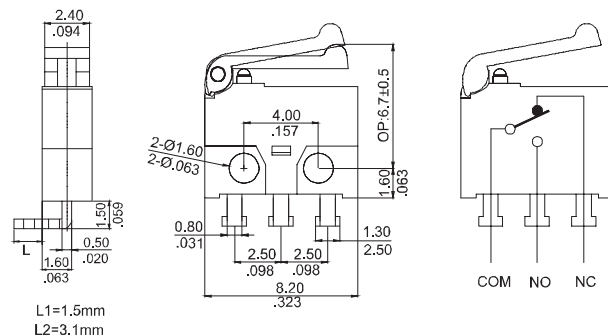
FEATURES

- Micro detector switch, size 8.2x2.7x6.0mm
- For low current and voltage
- Thru-hole, right angle, left angle PC terminal
- Screw mounting

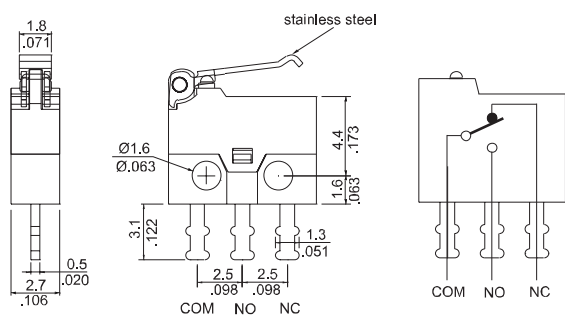
SSM	001	R	L1
SERIES SYMBOL	LEVER	TERMINAL TYPE	TERMINAL LENGTH
SSM SERIES	001 PLASTIC LEVER 002 NO LEVER 003 METAL LEVER 004 METAL LEVER (FLAT)	☐ THROUGH HOLE R RIGHT ANGLE L LEFT ANGLE	L1 L= 1.5mm L2 L= 3.1mm * THIS CODE FOR RIGHT ANGLE & LEFT ANGLE TERMINAL TYPE ONLY



SSM-001R-L*



SSM-001L-L*



SSM-003



RATING

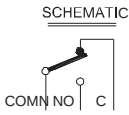
- 3A 125/250VAC μ 25T85, 1E4 (cURus)
- 2A 12VDC μ 25T85, 1E4 (cURus)
- 1A 24VDC μ 25T85, 1E4 (cURus)
- Initial contact resistance: 100m ohm (max.)
- Insulation resistance : 100M ohm (min.) at 500VDC
- Dielectric strength : 600VAC for 1 minute

FEATURES

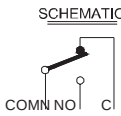
- Safety approved internationally by cURus North America,
- IP67 protection level (cURus)
- Mechanical life: up to 1,000,000 cycles
- Electrical life: 10,000 cycles
- Function: SPDT circuit
- Operating temperature range: -25°C ~ 85°C
- Applications in automotive electronics, appliance and Industrial control

SW3	CL	01	P	50
SERIES SYMBOL	CASE TYPE	ACTUATOR TYPE	TERMINAL TYPE	OPERATION FORCE
SW SERIES	A NO FIXING RODS B SCREW THREAD CL FIXING RODS ON THE LEFT SIDE CR FIXING RODS ON THE RIGHT SIDE	00 NO LEVER 01 STANDARD LEVER 20mm	P PC PINS - STRAIGHT N SOLDER B SOLDER - FLAT C PC PINS - LEFT ANGLE D PC PINS - RIGHT ANGLE	50 50gf 70 70gf -- -- gf

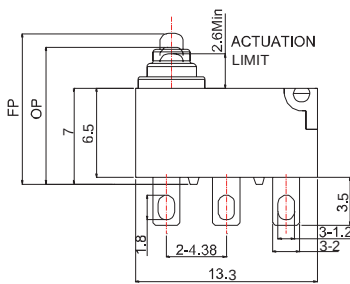
C3	CONTACT TYPE	WIRE NOTATION
C3	SILVER - PLATED CONTACT	☐ NONE WIRE M1 COM-BLACK WIRE NO-BLUE WIRE NC-RED WIRE M2 COM-BLACK WIRE NO-BLUE WIRE NC-RED WIRE (WITH PVC CASE)
G3	GOLD - PLATED CONTACT	



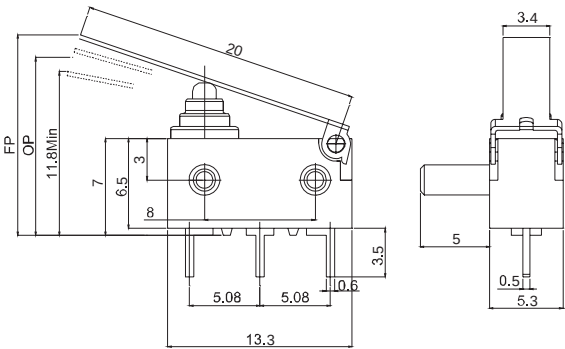
CHARACTERISTICS	
Operating Force	70gf±30gf
Free Position	11.5mm max.
Operating Position	10.5±0.3mm



CHARACTERISTICS	
Operating Force	60gf max
Free Position	15.0mm max.
Operating Position	13.4±0.8mm



SW3-A00N-70-C3



SW3-CL01P-50-C3

