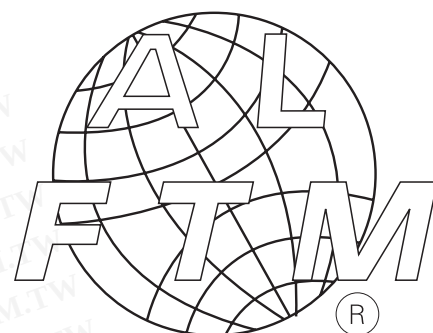
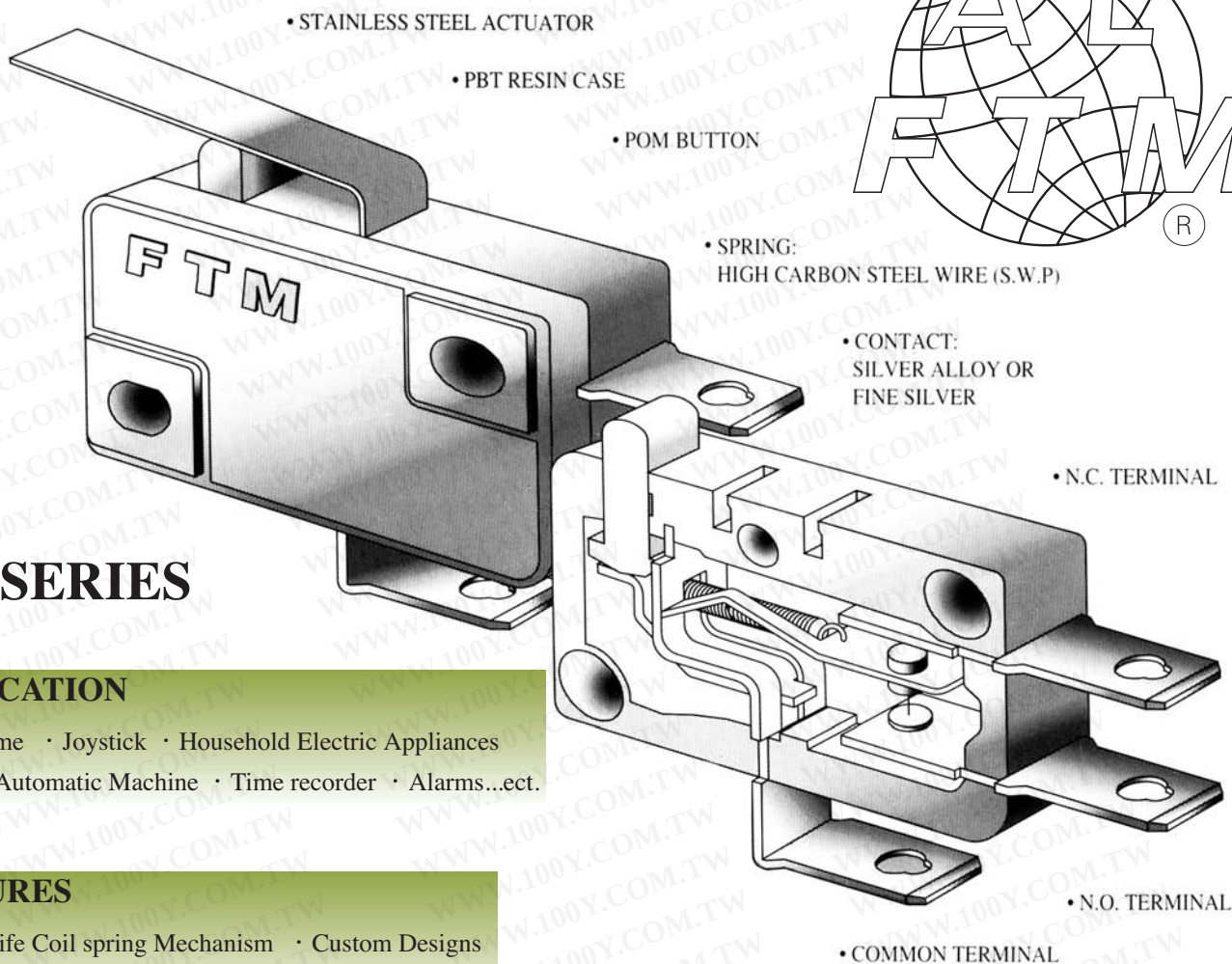




MN SERIES

APPLICATION

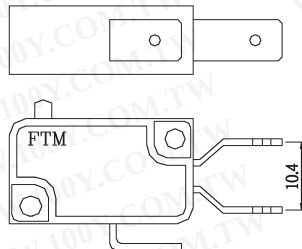
- TV Game • Joystick • Household Electric Appliances
- Office Automatic Machine • Time recorder • Alarms...ect.

FEATURES

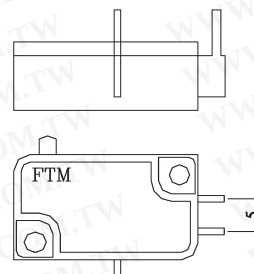
- Long Life Coil spring Mechanism • Custom Designs
- Integral Hinged Actuator • Rock Wipe Contact Action

TERMINALS

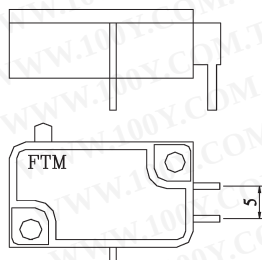
(E) Quick connect terminal
250 series



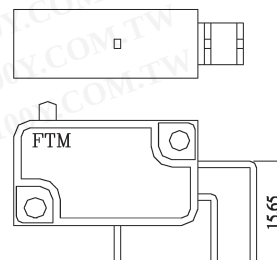
(F) P.C.B terminal



(G) P.C.B terminal



(P) P.C.B terminal

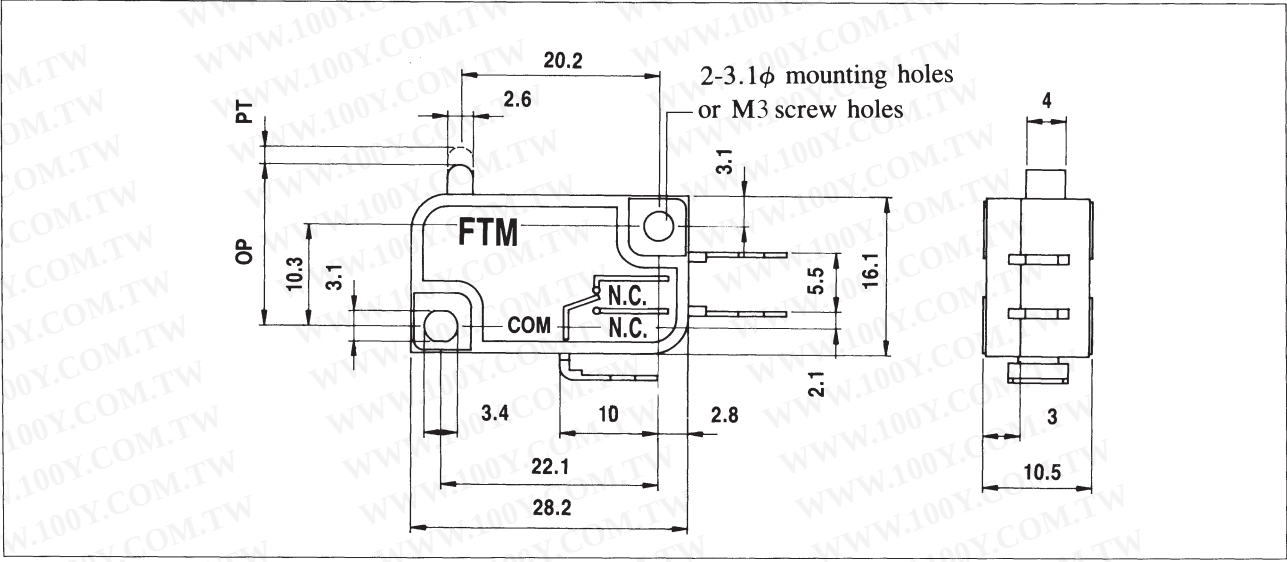


MICRO SWITCH MN SERIES

Accurate for your application



DIMENSION (OUTLINE DRAWING)



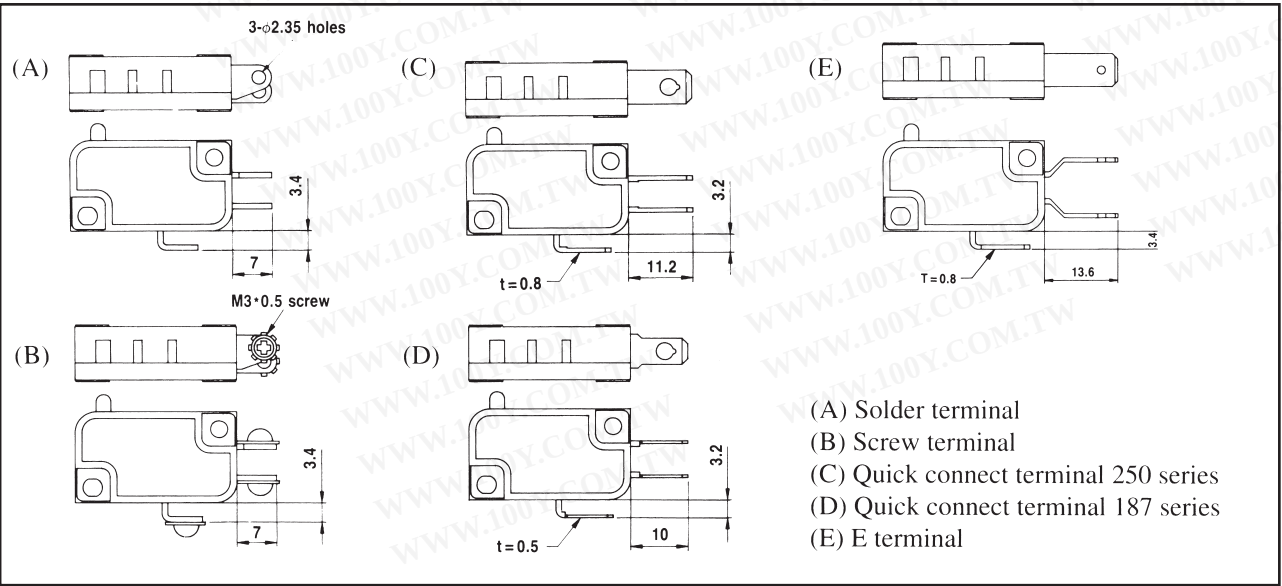
ORDERING INFORMATION

MN	3	0 3	0 0	D	O
NEW MINIATURE MICRO SWITCH	OPERATING FORCE	RATING CURRENT	ACTUATOR TYPE	TERMINAL SHAPE	CIRCUITRY (S.P.D.T)

RATING

CODE	RATED CURRENT FOR RESISTIVE LOAD	RATED VOLTAGE
01, 03, 05, 10, 15	1A, 3A, 5A, 10A, 15A	125/250 (VAC)

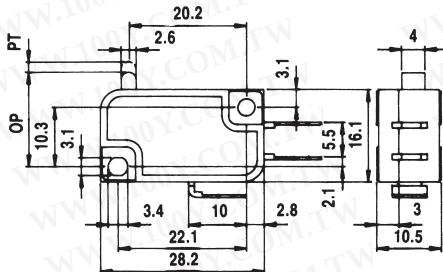
TERMINALS

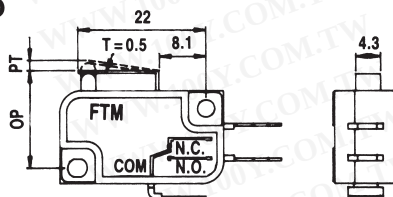


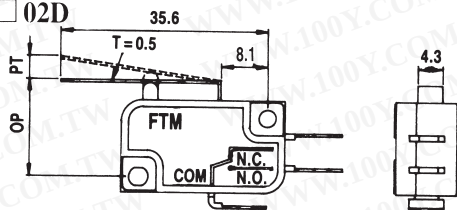
MICRO SWITCH MN SERIES

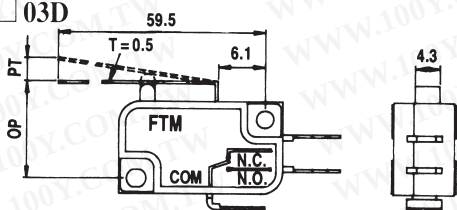


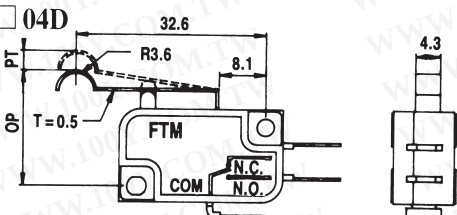
DIMENSIONS (Unless otherwise specified, a tolerance of $\pm 0.4\text{mm}$ applies to all dimensions.)

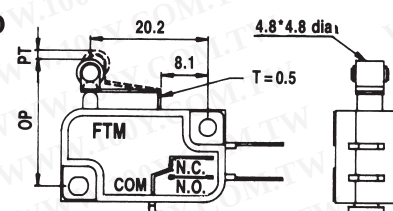
MN□-□□00D		OF max (g)		RF min (g)	OP (mm)	PT max. (mm)	OT min. (mm)	MD max. (mm)
		1	50	10	14.7	1.2	0.8	0.4
		2	100	20				
		3	200	50				
		4	400	100				

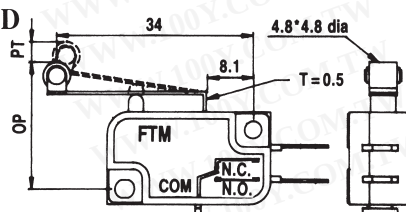
MN□-□□01D		OF max (g)		RF min (g)	OP (mm)	PT max. (mm)	OT min. (mm)	MD max. (mm)
		1	50	10	15.3	1.5	0.6	0.5
		2	100	20				
		3	200	40				
		4	400	100				

MN□-□□02D		OF max (g)		RF min (g)	OP (mm)	PT max. (mm)	OT min. (mm)	MD max. (mm)
		1	30	3	15.3	3.3	1.6	1.2
		2	60	10				
		3	120	15				
		4	220	30				

MN□-□□03D		OF max (g)		RF min (g)	OP (mm)	PT max. (mm)	OT min. (mm)	MD max. (mm)
		1	15	2	15.3	7.6	3.0	2.2
		2	30	3				
		3	60	10				
		4	120	20				

MN□-□□04D		OF max (g)		RF min (g)	OP (mm)	PT max. (mm)	OT min. (mm)	MD max. (mm)
		1	30	3	18.7	3.3	1.6	1.2
		2	60	10				
		3	120	15				
		4	220	30				

MN□-□□05D		OF max (g)		RF min (g)	OP (mm)	PT max. (mm)	OT min. (mm)	MD max. (mm)
		1	50	10	20.7	1.5	0.6	0.5
		2	100	20				
		3	200	50				
		4	400	100				

MN□-□□06D		OF max (g)		RF min (g)	OP (mm)	PT max. (mm)	OT min. (mm)	MD max. (mm)
		1	30	3	20.7	3.3	1.6	1.2
		2	60	10				
		3	120	15				
		4	220	30				

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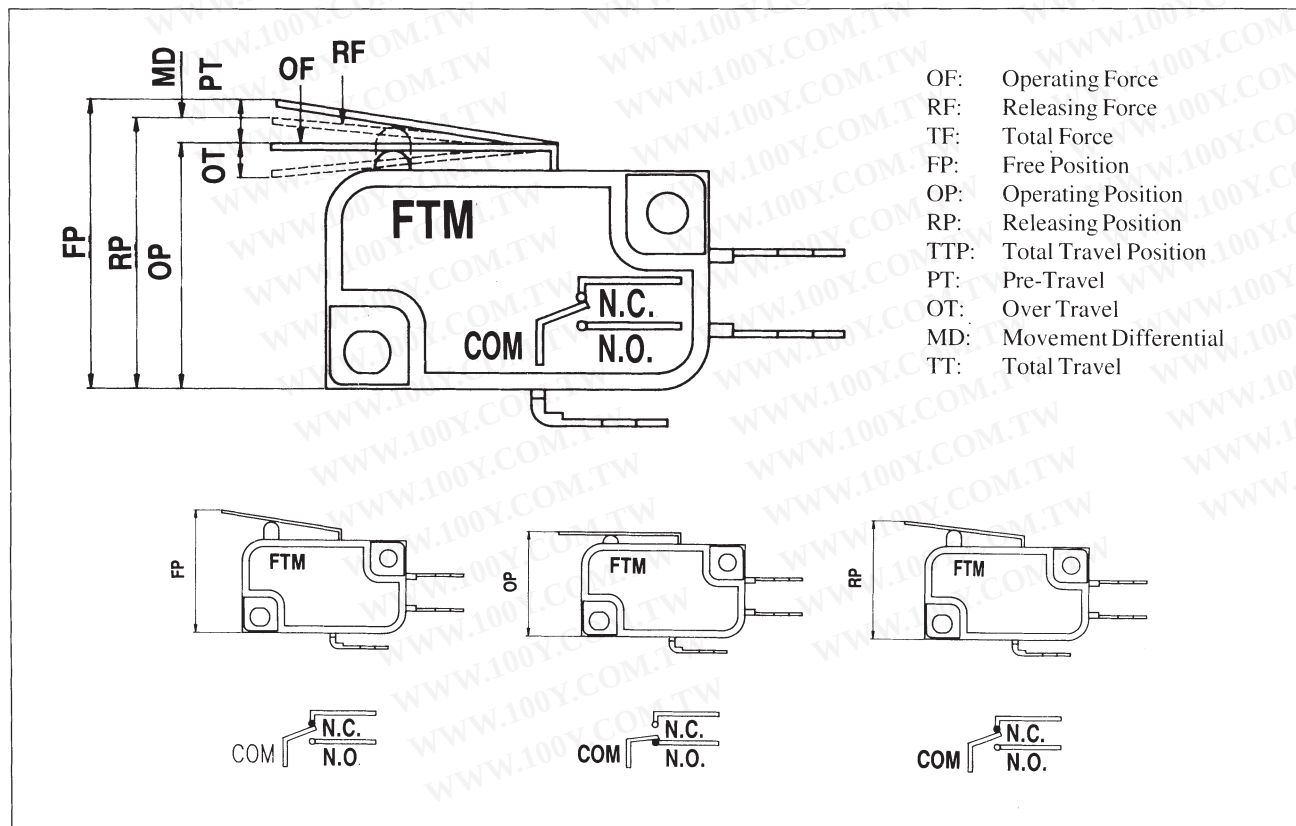
CHARACTERISTICS

- Operating speed 0.1mm/sec to 1m/sec
- Insulation Resistance 100MΩ min. (at 500VDC)
- Contact Resistance 15mΩ (initial)
- Ambient Temperature -25°C to +80°C
- Ambient Humidity Under 80% RH max.
- Service Life
 - Mechanical Over 5,000,000 Times
 - Electrical (at rate load) Over 200,000 Times
- Operating Frequency Less Than 600 operations/min

TERMINAL SYMBOL AND CONTACT FORM

	Terminal Symbol	CODE	Contact Form
COM.	Common Terminal	0	Single Pole Double Throw (SPDT)
N.O.	Normally Open Terminal	1	Single Pole Single Throw Normally Open (SPST-NO)
N.C.	Normally Closed Terminal	2	Single Pole Single Throw Normally Closed (SPST-NC)

GENERAL INFORMATION



SUBMINIATURE Micro Switch



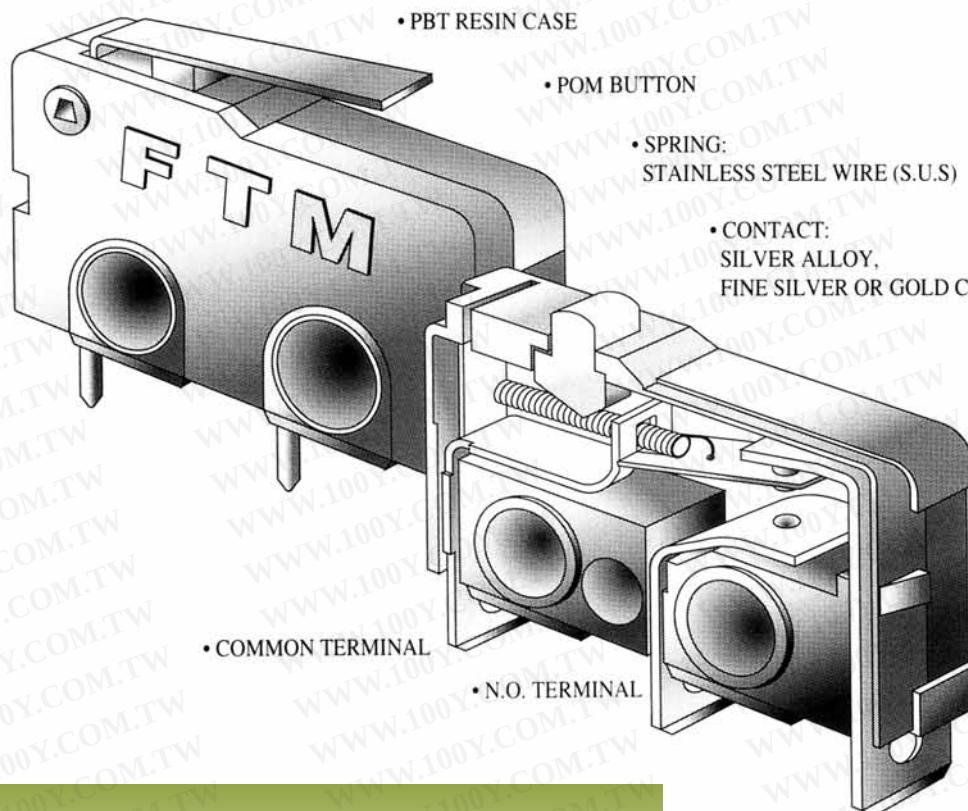
• STAINLESS STEEL ACTUATOR

• PBT RESIN CASE

• POM BUTTON

• SPRING:
STAINLESS STEEL WIRE (S.U.S)

• CONTACT:
SILVER ALLOY,
FINE SILVER OR GOLD CONTACT



• COMMON TERMINAL

• N.O. TERMINAL

• N.C. TERMINAL

SM SERIES

APPLICATION

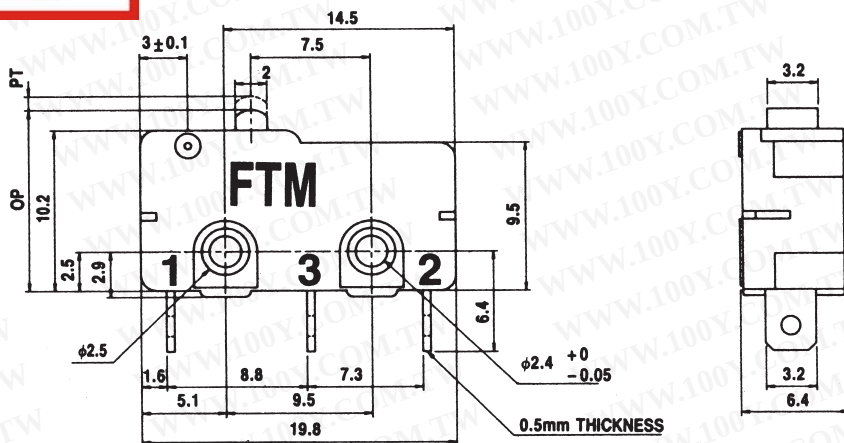
- Telephone • Household Electric Appliances • Joystick • Desk & Table Lighting Sets
- Computer • Alarms • Humidity • Video Cassette Rewinder
- Fax Machine • Money Clip • Electronic Toy • Gas Detector ...etc.

FEATURES

- Small Compact Size • Custom Designs • Rock Wipe Contact Action
- Integral Hinged Actuator • Long Life Coil spring Mechanism

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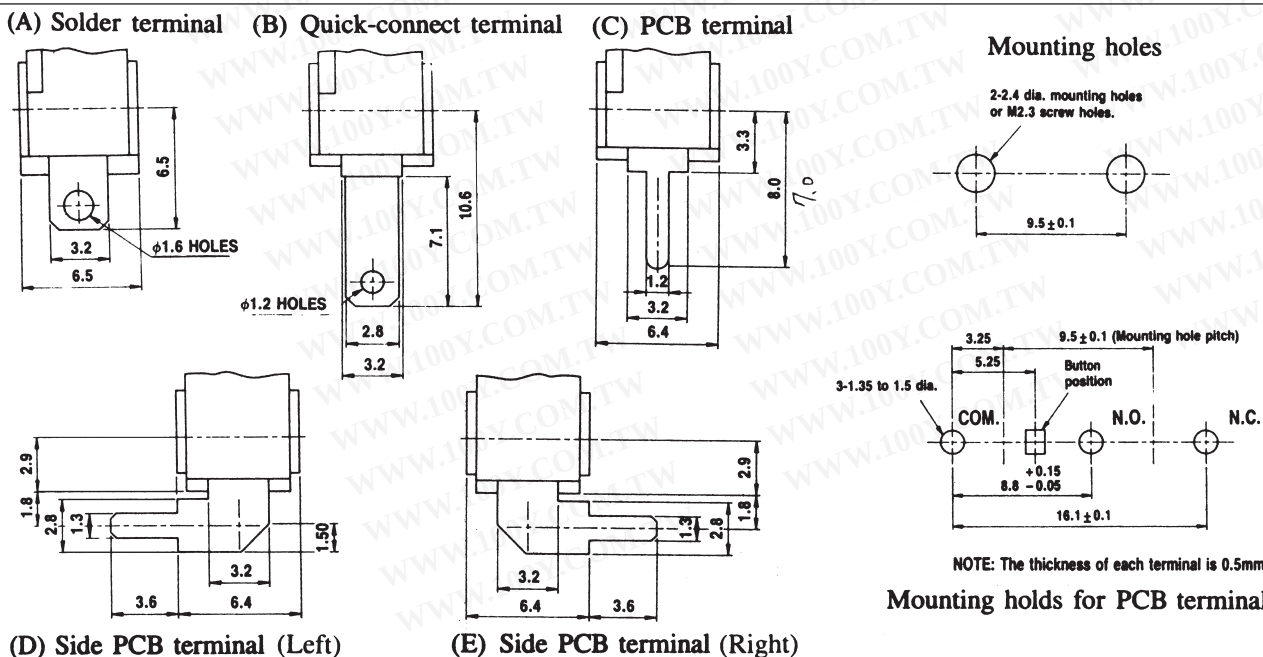


SM SUBMINIATURE MICRO SWITCH
3 OPERATING FORCE
—
0 3 RATING CURRENT
0 0 ACTUATOR TYPE
A TERMINAL SHAPE

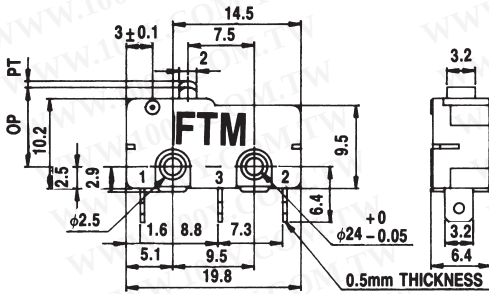
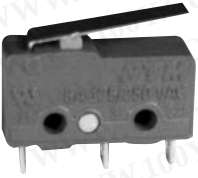
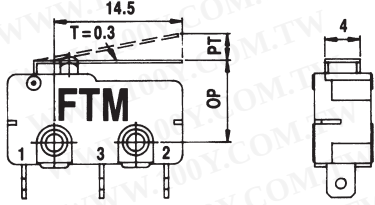
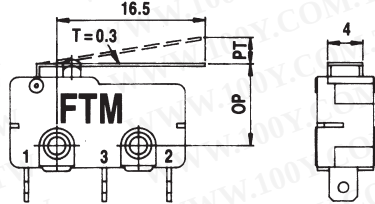
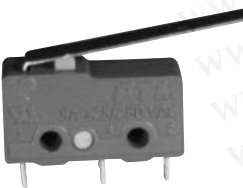
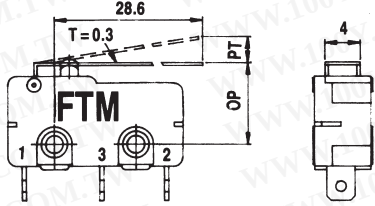
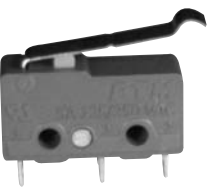
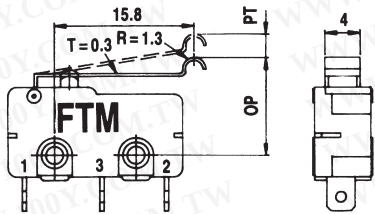
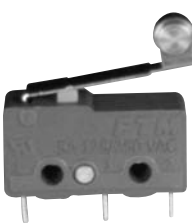
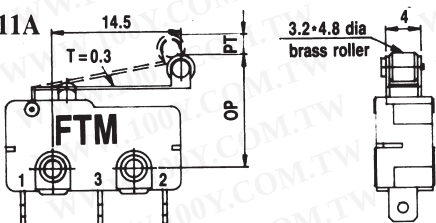
RATING

CODE	RATED CURRENT FOR RESISTIVE LOAD	RATED VOLTAGE
01	1A	125/250 (VAC)
03	3A	
05	5A	
10	10A	

TERMINALS



DIMENSIONS (Unless otherwise specified, a tolerance of $\pm 0.4\text{mm}$ applies to all dimensions.)

SM□-□□00A		OF max (g)		RF min (g)	OP (mm)	PT max. (mm)	OT min. (mm)	MD max. (mm)	FP max. (mm)
		1.	90	30	8.4 ±0.5	0.6	0.6	0.2	9.6
		2	150	55					
		3	210	95					
SM□-□□01A		1	25	6	8.8 ±0.8		1.4	0.8	13.5
		2	45	12					
		3	60	20					
SM□-□□02A		1	25	6	8.8 ±0.8		1.4	0.8	13.9
		2	45	12					
		3	55	20					
SM□-□□03A		1	20	5	8.8 ±1.2		1.6	1.0	14.7
		2	40	12					
		3	42	20					
SM□-□□07A		1	27	5	10.7 ±0.8		1.4	0.8	15.4
		2	45	12					
		3	60	20					
SM□-□□11A		1	25	5	14.5 ±0.8		1.4	0.8	19.2
		2	45	12					
		3	60	20					

- Many special forms and lengths of actuators are available
- Customer design are welcome

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CHARACTERISTICS

- Operating speed 0.1mm/sec to 1 m/sec
- Insulation Resistance 100 MΩ min.(at 500 VDC)
- Contact Resistance 30 mΩ max.
- Ambient Temperature -25°C to +80°C
- Ambient Humidity 85% RH max.
- Service Life
 - Mechanical 10,000,000 Min.
 - Electrical (at rate load) 500,000 Min.
- Max. Operating Frequency 300 operations/min

TERMINAL SYMBOL

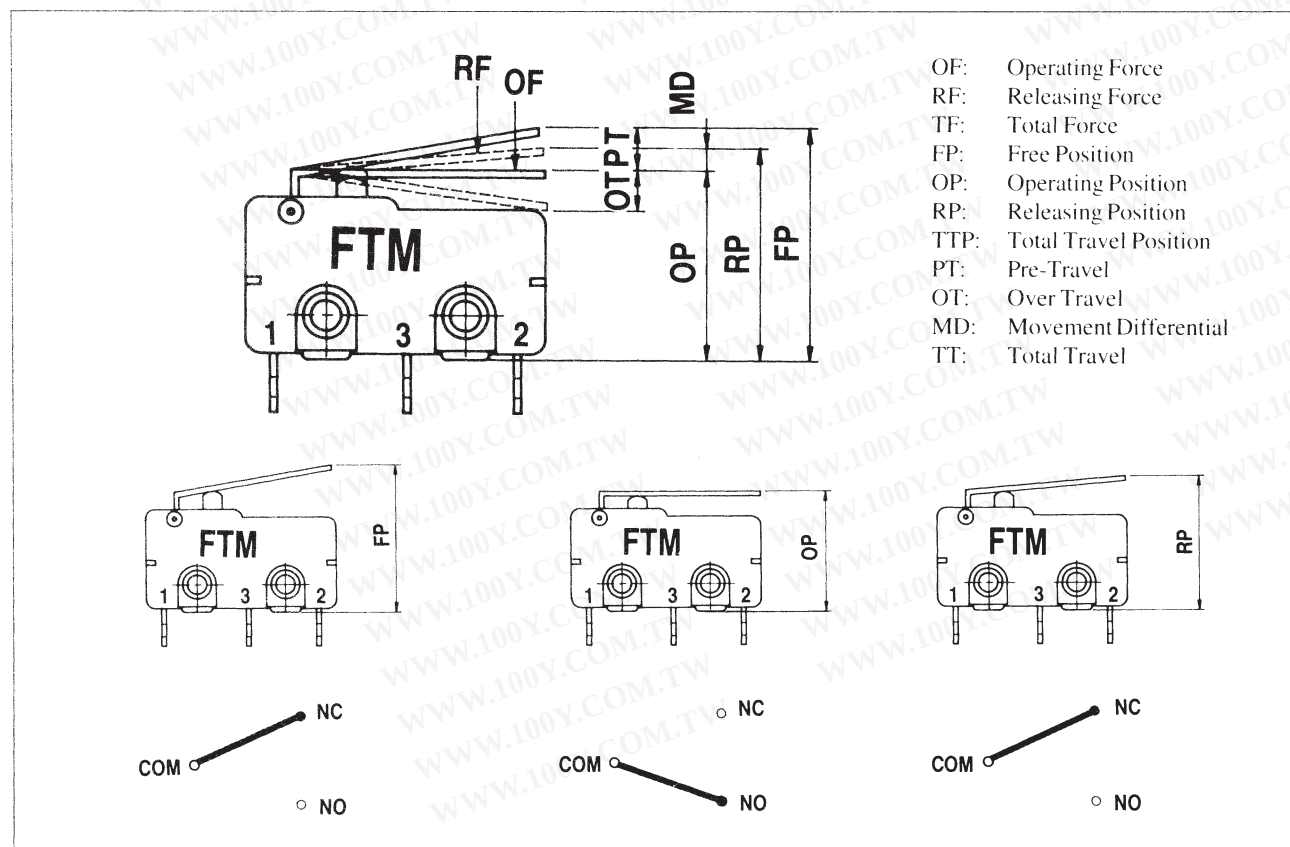
	Terminal Symbol
COM.	Common Terminal
N.O.	Normally Open Terminal
N.C.	Normally Closed Terminal

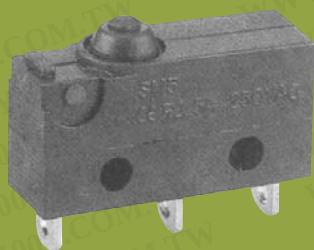
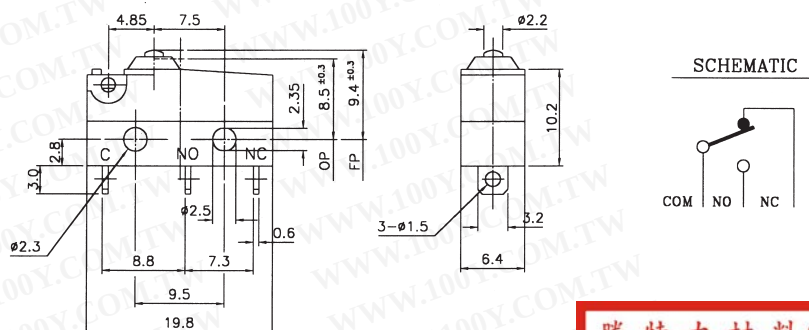
CONTACT CONFIGURATION

Single Pole Double Throw
(SPDT)

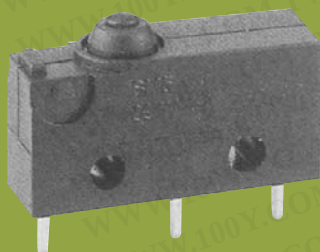
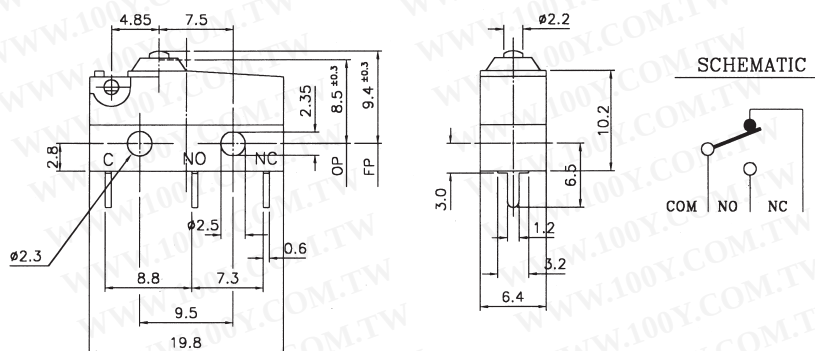


GENERAL INFORMATION

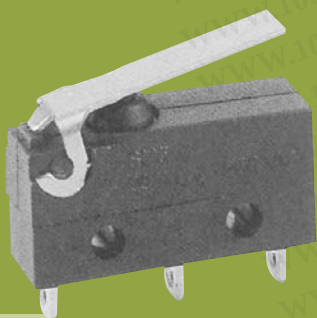
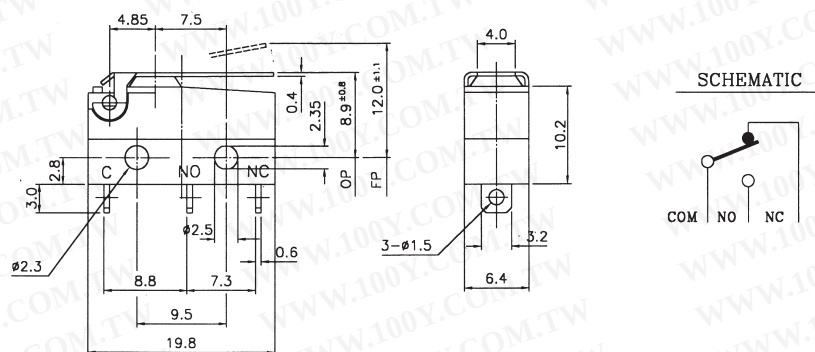
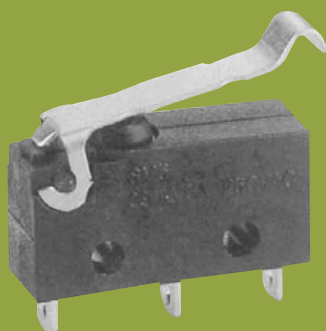
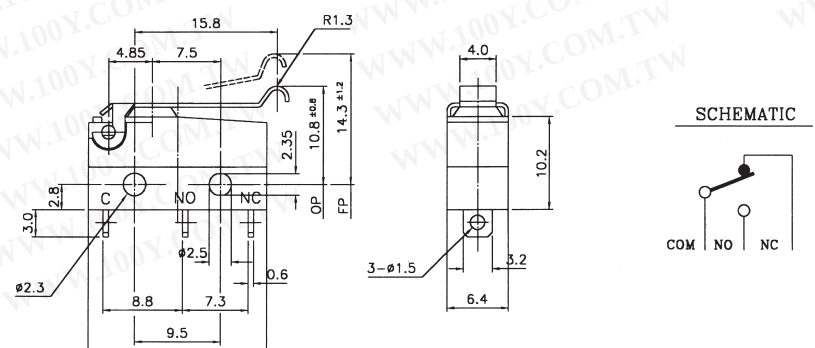


SW5-00N

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SW5-00P

SW5-01N

**SW5-04N**

Micro Switch

DM



Features

- Large over travel.
- Small compact size.
- Insert molding in the contact prevent flux build-up during soldering and permits auto dipping.
- Long life Be-Cu spring Mechanism.

Applications

- Telecommunication equipment.
- Office Applications.
- Other various Applications.

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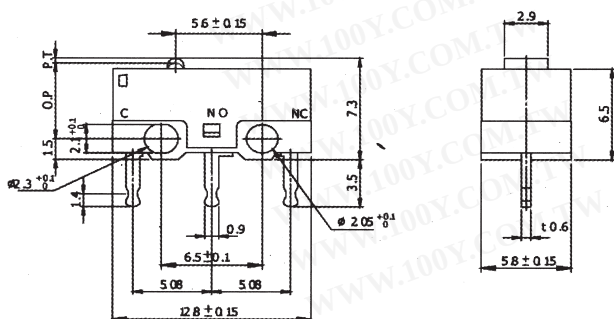
Specification

Maximum ratings	See ordering guide.	Insulation resistance	100M Min (at DC500V)
Contact resistance	50mΩ Max. (initial)	Dielectric withstanding Voltage	1,000VAC(50 or 60Hz) 1min.
Type of actuation	Momentary	Operating temperature	-25°C~+80°C
Contact arrangement	S.P.S.T.	Ambient humidity	85% RH Max
Operating force (Without lever)	125g ± 25gf(DM-00), 70g ± 20gf(DML-00)	Operating speed	1mm/sec to 500mm/sec.
Operating travel	5.5 ± 0.2mmf(DM-00), 6.8 ± 0.5mm(DM-01)	Operating frequency	120 operations/min.
Mechanical life	1,000,000 operations.	Soldering temperature	255°C Max.(3sec)
Electrical life	300,000 operations.	Weight	About 0.6g

Ordering Guide

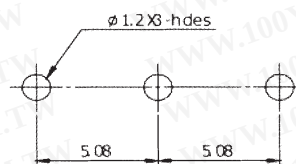
DM		L		00	
Code	Current Ratings	Code	Operating Force(g f.)	Code	Hinged Type
DM	3A 125VAC	L	125 ± 25	00	
DMB	1A 125VAC		70 ± 20	01	
DMC	0.1A 5VDC			02	
Code	CLOTHED			04	
2	Ag			04A	
	Au				

Outline Drawing

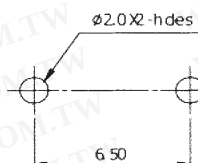


Technical Drawing

P.C.B. Mounting Hole Dimensions



Mounting Holes



Contact Configuration

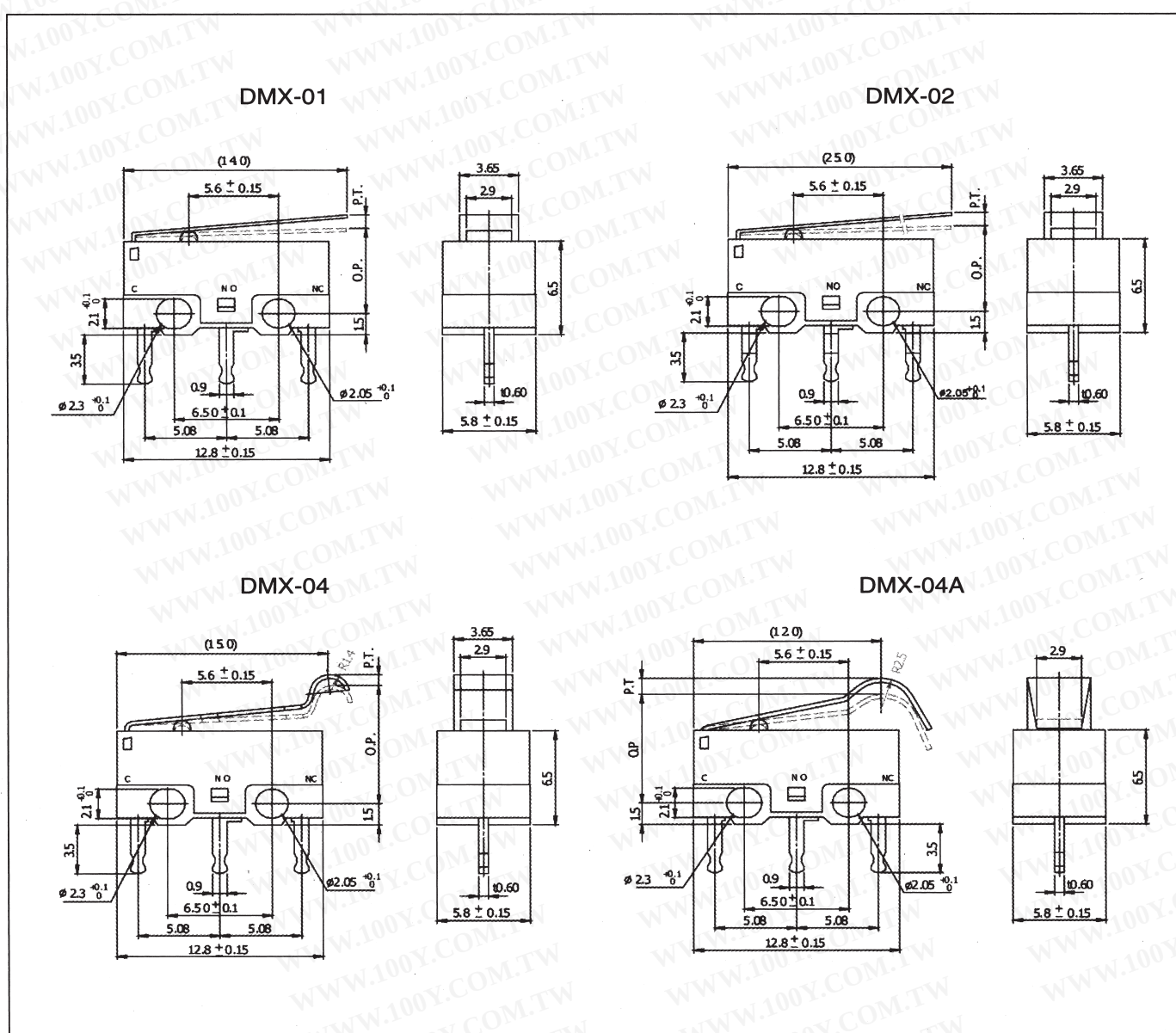


Micro Switch

DM

Outline Drawing

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SSM Series

Specification

1. Rating: 30VDC 500mA
2. Operating force: 50gf(Max)
3. Life: 100,000 cycles Min
4. Operating position: $6.7\text{mm} \pm 0.5\text{mm}$
5. Contact resistance: 100m ohms Max(initial)
6. Insulation resistance: 100M ohms Min(at 250VDC)
7. Dielectric withstanding voltage: 500VAC 1 minute
8. Operating temperature: $-15^{\circ}\text{C} \sim +70^{\circ}\text{C}$
9. Ambient humidity: 35%~85%RH
10. Malfunction durability: 10 to 55 Hz 1.5mm double amplitude during 2 hours

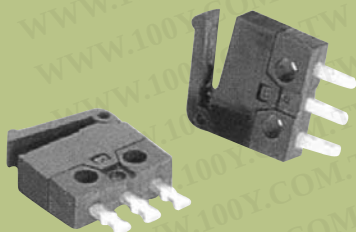
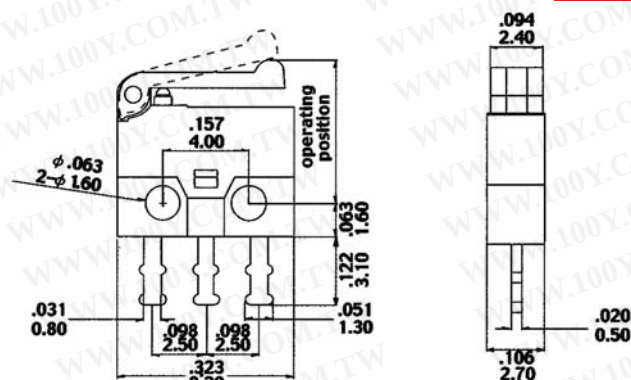
Miniature Micro Switches

Material

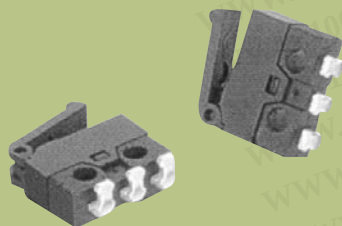
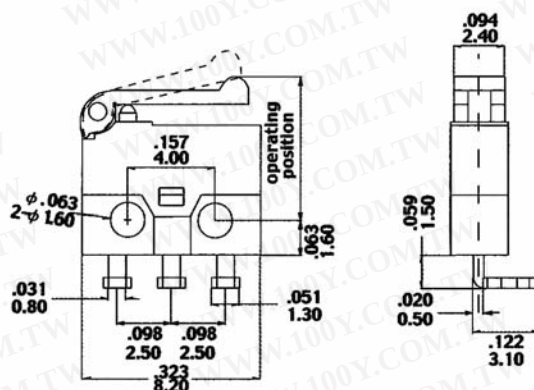
1. TERMINAL: BRASS SILVER PLATED
2. Body: PBT
3. Cover: POM
4. Level: PBT
5. Pin: POM
6. Connect: BeCu
7. Contact: Silver

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SSM-001



SSM-001R



SSM-001L

