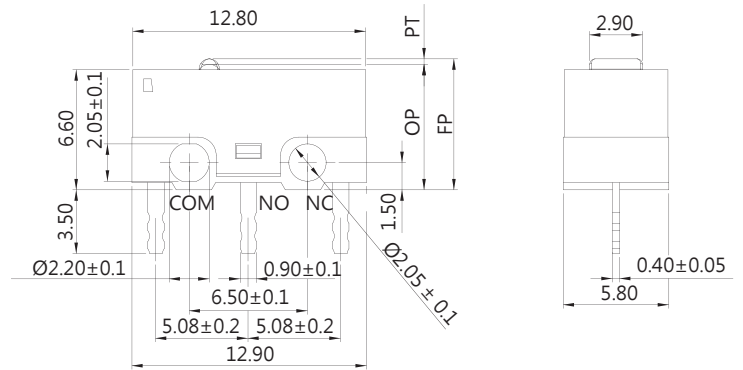


# MICRO SWITCHES



## DIMENSIONS

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



## DF3 SERIES

### SPECIFICATIONS

#### Contact Resistance (initial)

Max. 100m $\Omega$

Measured by ohm meter - open voltage < 1VDC, driver current -100 mA

#### Insulation Resistance (at 500VDC/minute)

Min. 100M $\Omega$

#### Dielectric Strength

Min. 500VAC(50-60HZ)/minute between Live parts.

Min. 1500VAC(50-60HZ)/minute between Live parts and dead metal parts

#### Operating Temperature Range

-40°C to 85°C ( with no icing )

#### Vibration

10~55Hz, displacement 0.75 mm (p-p)

#### Electrical Service Life

Min. 10,000 operations

#### Electrical Operating Frequency

10~30 operations per minute

#### Mechanical Service Life

Min. 5,000,000 operations

#### Mechanical Operating Frequency

120 operations per minute

#### Operating application of the switch

Set the switch pushing distance from 60% to 90% of the specified OT value

### APPLICATIONS

Mouses, Joysticks, Small home appliances, Central heating control

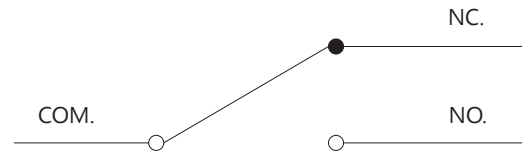
### CERTIFICATE INFORMATION

Model Name	UL · cUL	ENEC
DF3-03	3RA 125/250VAC $\mu$ T55 1E4 3RA 24VDC $\mu$ T55 1E4	3A 125/250VAC $\mu$ T55 1E4 3A 24VDC $\mu$ T55 1E4
DF3-S3	3RA 125VAC $\mu$ T55 5E4 3RA 250VAC $\mu$ T55 3E4 3RA 250VAC $\mu$ T55 3E4	3A 125VAC $\mu$ T55 5E4 3A 250VAC $\mu$ T55 3E4 3A 24VDC $\mu$ T55 1E4
DF3-05	5RA 125/250VAC $\mu$ T85 1E4 3RA 24VDC $\mu$ T85 1E4	5A 125/250VAC $\mu$ T85 1E4 3A 24VDC $\mu$ T85 1E4

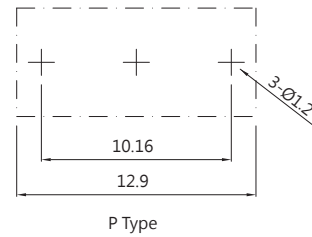
### SPECIAL APPLICATIONS FOR GAMING MOUSE

DF3-0.1A, Min. 20,000,000 operations

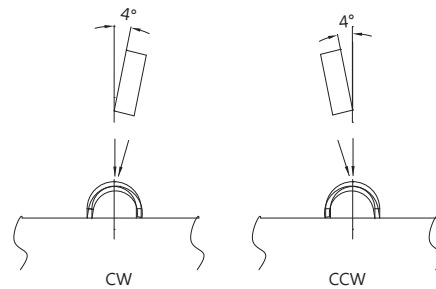
### CONTACT CONFIGURATION



### MOUNTING HOLES



PRESSING DIRECTION IS SUGGESTED TO BE VERTICAL AND WITH +/-4



Available for the model that mouse has stoppers added more than Min.0.1mm

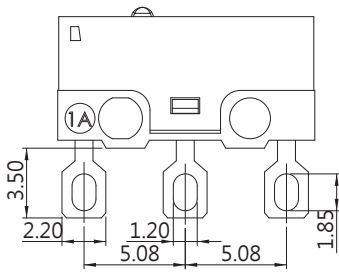
### THE SELECTION OF RATING & FORCE

Model	Rating	L	S
DF3-03	3A	*	*
DF3-S3	3A	*	*
DF3-05	5A	*	*

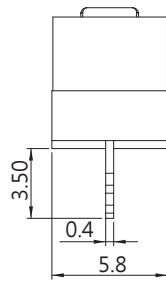
NOTE : The Symbol " \* " to represent the result is accepted

## TERMINAL TYPES

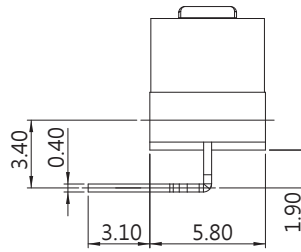
E type



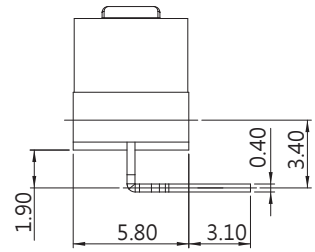
P type



C type

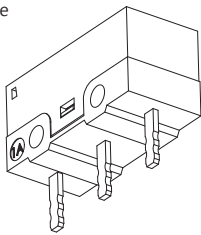


D type

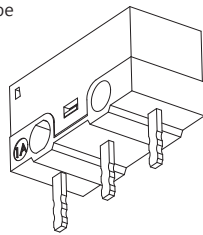


## PILLAR TYPES

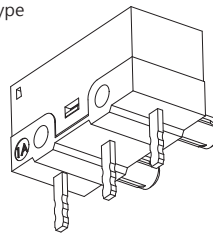
A0 type



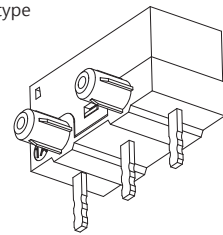
B0 type



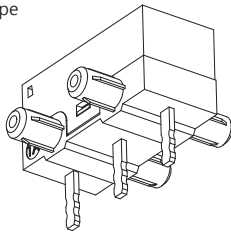
C1 type



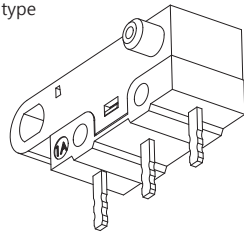
C2 type



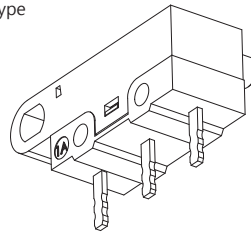
C3 type



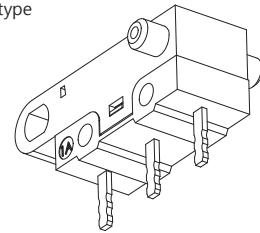
D4 type



D5 type



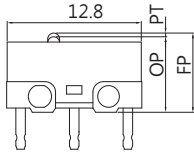
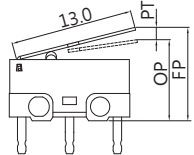
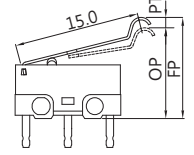
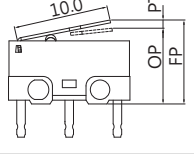
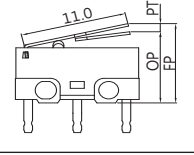
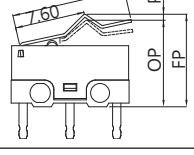
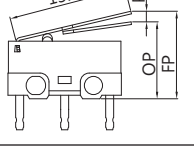
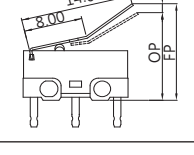
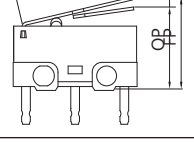
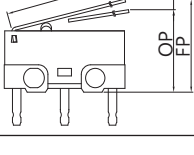
D6 type



## ORDERING INFORMATION

D	F	3	-	0	3	S	0	-	0	1	P	0	C	1	-	0	A	-	Z																
SERIES PREFIX	CODE	RATING CURRENT	CODE	OPERATING FORCE	CODE	STRUCTURE TYPE	CODE	ACTUATOR TYPE	CODE	TERMINAL TYPE	CODE	CIRCUIT ARRANGEMENT	CODE	PILLAR & MOUNTING HOLES TYPE	CODE	PILLAR TYPE	SPECIAL CODE	ROHS CODE																	
	03	3A 125/250VAC	S	STANDARD	0	SINGLE BLADE	00		C		0	S.P.D.T	A		0	WITHOUT PILLAR	DIMENSIONS FOR C1 / C2 / C3 TYPE																		
	05	5A 125/250VAC	L	LIGHT			01		D		1	S.P.S.T NO	B		1		<table border="1"> <tr> <th>CODE</th> <th>L1</th> <th>H</th> <th>ØA</th> <th>ØB</th> <th>ØC</th> <th>ØD</th> <th>P</th> </tr> <tr> <td>A</td> <td>3.15</td> <td>5.10</td> <td>2.05</td> <td>2.45</td> <td>2.05</td> <td>2.45</td> <td>6.50</td> </tr> </table>			CODE	L1	H	ØA	ØB	ØC	ØD	P	A	3.15	5.10	2.05	2.45	2.05	2.45	6.50
CODE	L1	H	ØA	ØB	ØC	ØD	P																												
A	3.15	5.10	2.05	2.45	2.05	2.45	6.50																												
	S3	3A 125/250VAC (High Life)					02		E		2	S.P.S.T NC	C		2		DIMENSIONS FOR D4 / D5 / D6 TYPE																		
							03		P		3				3		<table border="1"> <tr> <th>CODE</th> <th>L1</th> <th>H1</th> <th>H2</th> <th>ØA</th> <th>ØB</th> <th>P</th> </tr> <tr> <td>A</td> <td>1.95</td> <td>1.85</td> <td>2.05</td> <td>2.05</td> <td>2.55</td> <td>13.05</td> </tr> </table>			CODE	L1	H1	H2	ØA	ØB	P	A	1.95	1.85	2.05	2.05	2.55	13.05		
CODE	L1	H1	H2	ØA	ØB	P																													
A	1.95	1.85	2.05	2.05	2.55	13.05																													
							04				4		D		4																				
											5				5																				
											6				6																				

OPERATING CHARACTERISTICS

SWITCH TYPE	PART SUFFIX	OF Max. (gf)		OP (mm)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	RF Min. (gf)
		L	S						
DF3- □□□ -0 □ -Z		L	80	7.0±0.2	0.5	0.2	0.12	7.50	21
		S	150						35
DF3- □□□ -1 □ -Z		L	30	8.2±0.8	3.4	0.6	0.8	10.1	5
		S	56						8
DF3- □□□ -2 □ -Z		L	25	10.2±0.8	3.5	0.7	0.92	14.2	5
		S	43						7
DF3- □□□ -3 □ -Z		L	35	7.9±0.5	2.1	0.3	0.4	9.3	5
		S	57						12
DF3- □□□ -4 □ -Z		L	36	8.0±0.6	2.5	0.5	0.7	10.8	6
		S	60						10
DF3- □□□ -5 □ -Z		L	50	9.2±0.6	1.64	0.49	0.3	10.15	7
		S	75						11
DF3- □□□ -6 □ -Z		L	30	8.33±0.9	3.5	0.6	0.8	10.6	5
		S	50						8
DF3- □□□ -7 □ -Z		L	27	10.75±0.9	3.5	0.3	0.8	13.5	3
		S	48						8
DF3- □□□ -8 □ -Z		L	33	8.15±0.7	2.8	0.6	0.7	11.2	5
		S	54						9
DF3- □□□ -9 □ -Z		L	13	9.5±1.7	6.9	0.55	1.9	16.8	2
		S	21						3