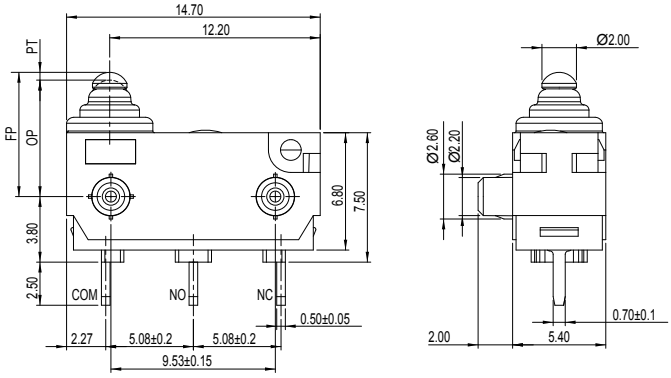
WATER PROOF SWITCHES

DIMENSIONS

Unless otherwise specified, a tolerance of ±0.4mm applies to all dimensions.



DW51 SERIES

SPECIFICATIONS

Contact Resistance(initial)

Max. 100 mΩ

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

Insulation Resistance (at 500VDC/minute)

Min. 100MΩ

Dielectric Strength

Min. 400VAC(50-60HZ)/minute between Live parts.

Min. 1300VAC(50-60HZ)/minute between Live parts and dead metal parts

Operating Temperature Range

-40℃ to 85℃ (with no icing)

Vibration

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

Electrical Service Life

0.1A - Min. 100,000 operations

3A - Min. 10,000 operations

Electrical Operating Frequency

10~30 operations per minute

Mechanical Service Life

Min. 500,000 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

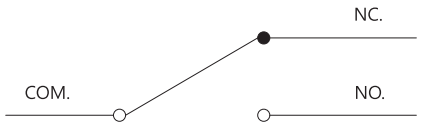
Degree of Protection

IP67 (excluding the terminals on terminal models)

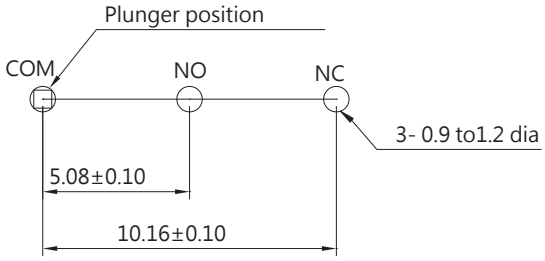
APPLICATIONS

Automotive (Seat Belt, Door Latch, Engine Hood, Door Trunk), Air Conditioner,Communication, Security System, Electric Tooth Brush, Toy

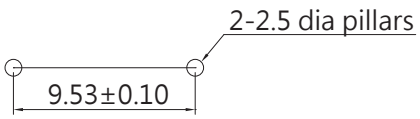
CONTACT CONFIGURATION



MOUNTING HOLES FOR PCB TERMINAL



PILLAR PITCH

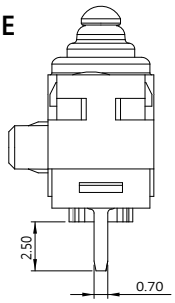


CERTIFICATE INFORMATION

Model Name	UL, cUL	ENEC
DW51-P1 or G1	0.1RA 12 VDC, μ T55 1E5 0.1RA 125 VAC, μ T55 1E4	0.1A 12 VDC, μ T55 1E5 0.1A 125 VAC, μ T55 1E4
DW51-03 or G3	3RA 12 VDC, μ T55 1E5 3GPA 125 VAC, μ T55 1E4	3A 12 VDC, μ T55 1E5 3A 125 VAC, μ T55 1E4

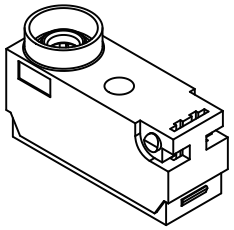
TERMINAL TYPES (THE thickness of each terminal is 0.5mm)

P TYPE

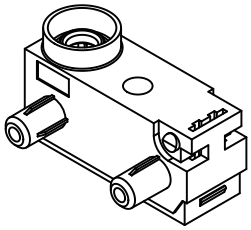


COVER TYPES (PILLAR & TRAVEL TYPES)

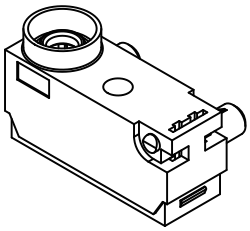
A TYPE



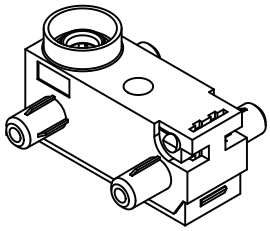
B TYPE



C TYPE



D TYPE



ORDERING INFORMATION

D W 5 1 — 0 3 S — 0 1 P 0 A — 0 A — Z

SERIES PREFIX

CODE	RATING CURRENT
G1	0.1A 125VAC Contact plated gold
P1	0.1A 125VAC
G3	3A 125VAC Contact plated gold
03	3A 125VAC

CODE	OPERATING FORCE
S	STANDARD

CODE	ACTUATOR TYPE (for DW51)
00	
01	

CODE	TERMINAL TYPE
P	

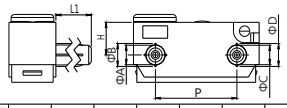
CODE	CIRCUIT ARRANGE-MENT
0	S.P.D.T
1	S.P.S.T NO
2	S.P.S.T NC

CODE	PILLAR TYPE
A	
B	
C	
D	

SPECIAL CODE

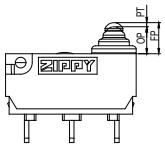
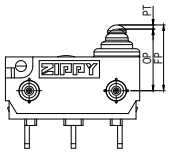
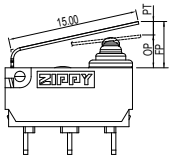
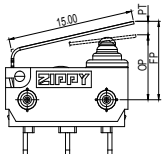
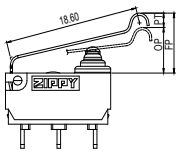
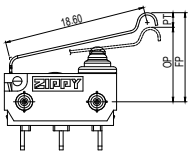
ROHS CODE

DIMENSIONS



CODE	L1	H	ΦA	ΦB	ΦC	ΦD	P
	5.0	3.7	2.2	2.6	2.2	2.6	9.53
A	2.0	3.7	2.2	2.6	2.2	2.6	9.53
B	3.5	3.7	2.2	2.6	2.2	2.6	9.53

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)
DW51- □□ S-00 □□ -Z		S	130	3.05±0.2	0.8	0.8	0.3	3.65	35
				6.75±0.2				7.35	
DW51- □□ S-01 □□ -Z		S	195	3.7±0.5	3.85	1.35	0.5	7.0	55
				7.4±0.5				10.7	
DW51- □□ S-04 □□ -Z		S	160	6.2±0.8	4.8	1.65	0.7	10.1	45
				9.9±0.8				13.8	

CAUTIONS:
注意事項

1. Do not handle the switch in a way that may cause damage to the sealed rubber & switch sealing.
使用開關時，請勿損壞開關防水矽膠罩及開關防水膠。

2. To ensure the best performance of the switch, when handling/installing the switch, please do not apply uneven pressure to the direction indicated by the arrow in Figure 1. Any uneven pressure or pressure direction other than the operating direction might be harmful or damage the switch performance.
為確保開關正常運作，安裝及取用開關時，請勿直接施加壓力在圖-1中箭頭所指示的方向。如圖所示，任何不對稱的壓力或作動方向以外的壓力都不適用在開關按柄上。

3. Do not exceed the end position (EP) and over travel (OT).This could cause operation failure.(Figure-2)
圖示設計按壓位置，請勿超過開關下死點及超出行程，以避免開關失效。(圖2)

4. Avoid applying any grease/oil and chemicals on the switch rubber.
請避免沾附任何油脂或者化學物質在開關的矽膠防水罩上。

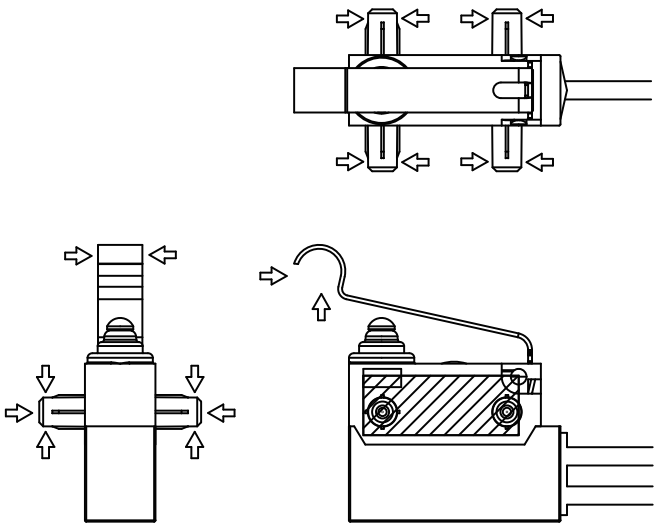


Figure-1

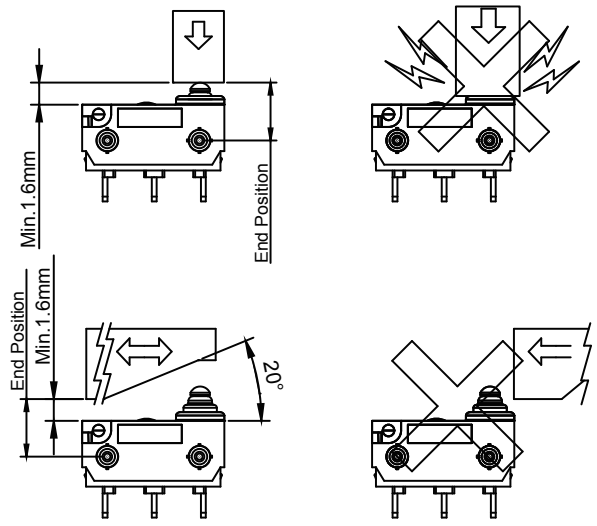


Figure-2