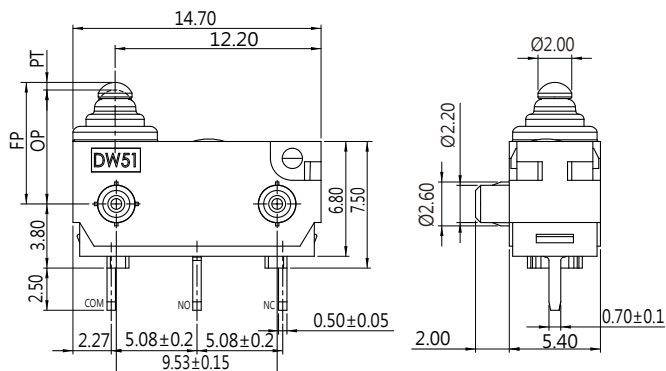


WATER PROOF SWITCHES



DIMENSIONS

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



DW51 SERIES

SPECIFICATIONS

Contact Resistance(initial)

Max. 100 m Ω

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

Insulation Resistance (at 500VDC/minute)

Min. 100M Ω

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°C to 85°C (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

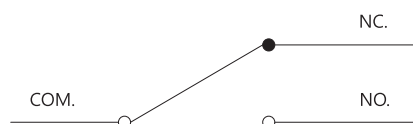
Operating application of the switch

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

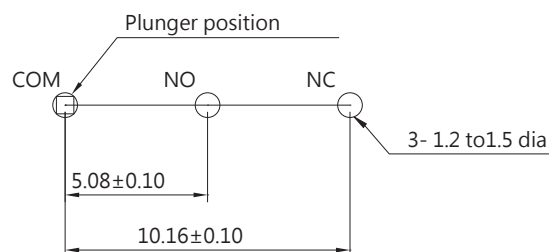
APPLICATIONS

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

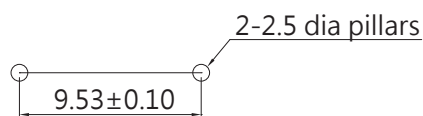
CONTACT CONFIGURATION



MOUNTING HOLES FOR PCB TERMINAL



PILLAR PITCH

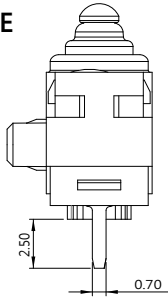


CERTIFICATE INFORMATION

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

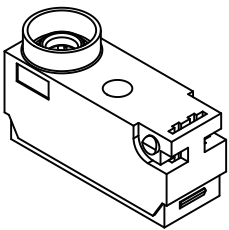
TERMINAL TYPES (THE thickness of each terminal is 0.5mm)

P TYPE

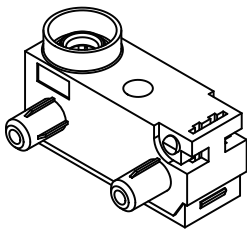


COVER TYPES (PILLAR & TRAVEL TYPES)

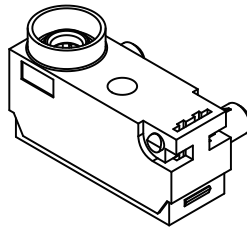
A TYPE



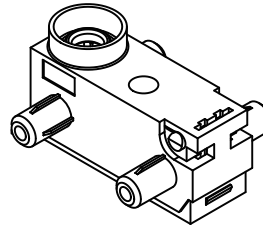
B TYPE



C TYPE



D TYPE



ORDERING INFORMATION

D W 5 1
SERIES PREFIX

CODE	RATING CURRENT
G1	0.1A 125VAC Contact plated gold
P1	0.1A 125VAC
G3	3A 125VAC Contact plated gold
O3	3A 125VAC

CODE	OPERATING FORCE
S	STANDARD

CODE	ACTUATOR TYPE (for DW51)
00	
01	

CODE	TERMINAL TYPE
P	

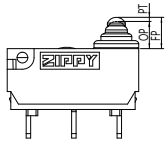
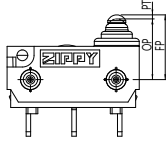
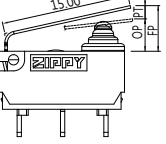
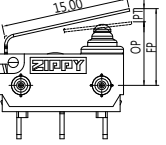
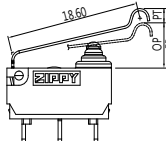
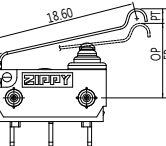
CODE	CIRCUIT ARRANGEMENT
0	S.P.D.T
1	S.P.S.T NO
2	S.P.S.T NC

CODE	PILLAR TYPE
A	
B	
C	
D	

0 A Z
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	