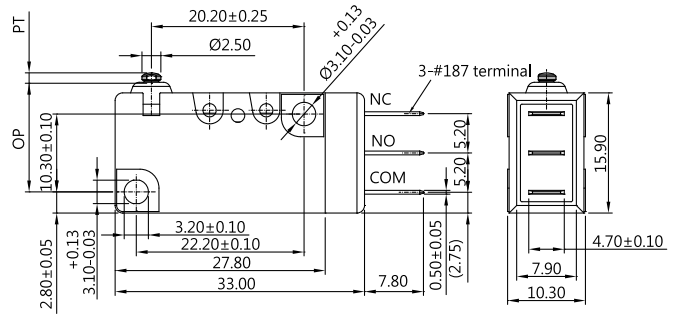


# WATER PROOF SWITCHES

## DIMENSIONS

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



## VW1 SERIES

### SPECIFICATIONS

#### Contact Resistance (initial)

Max. 300m $\Omega$

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. 1,000,000 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

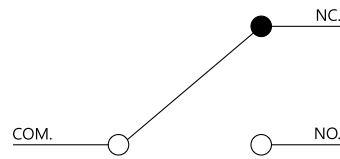
Alarm device, Home security, Time recorder, Air conditioner, Food processor, Juice maker, Lawnmower, Mixer, Central water heater, Industrial apparatus, Special forklifts, Special vehicles

### THE SELECTION OF RATING & FORCE

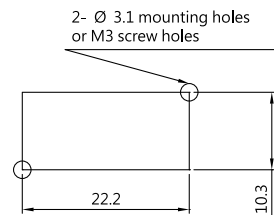
MODEL	Rating	D	J	L	S	H
VW1	0.1A	*	*	*	*	*
	3A	*	*	*	*	*
	6A	*	*	*	*	*
	10A				*	*

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

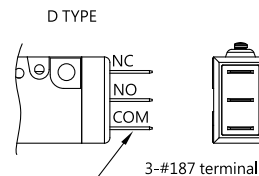
### CONTACT CONFIGURATION



### MOUNTING HOLES



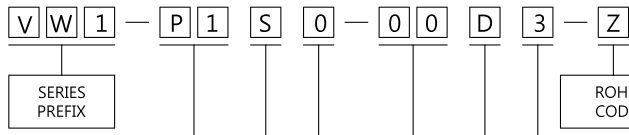
### TERMINAL TYPES



### CERTIFICATE INFORMATION

Model Name	UL	ENEC
VW1-P1	0.1RA 30VDC $\mu$ T85 1E4	0.1A 30VDC $\mu$ T85 1E4
	0.1RA 125/250VAC $\mu$ T85 1E4	0.1A 125/250VAC $\mu$ T85 1E4
VW1-03	3RA 30VDC $\mu$ T85 1E4	3A 30VDC $\mu$ T85 1E4
	3RA 125/250VAC $\mu$ T85 1E4	3A 125/250VAC $\mu$ T85 1E4
VW1-06	5RA 30VDC $\mu$ T85 1E4	5A 30VDC $\mu$ T85 1E4
	6RA 125/250VAC $\mu$ T85 1E4	6A 125/250VAC $\mu$ T85 1E4
VW1-10	5RA 30VDC $\mu$ T85 1E4	5A 30VDC $\mu$ T85 1E4
	10RA 125/250VAC $\mu$ T85 1E4	10A 125/250VAC $\mu$ T85 1E4


ORDERING INFORMATION






RATING CURRENT		
CODE	P1	03
RATING	0.1A 125/250VAC	3A 125/250VAC
CODE	06	10
RATING	6A 125/250VAC	10A 125/250VAC







CIRCUIT ARRANGEMENT			
CODE	3	4	5
CIRCUIT	S.P.D.T	S.P.S.T NO	S.P.S.T NC

OPERATING FORCE				
CODE	H	S	L	J
FORCE	HEAVIER	STANDARD	LIGHT	SLIGHT
CODE	D			
FORCE	LIGHTNESS			

TERMINAL TYPE			
CODE	D		
IMAGE			

ACTUATOR LEVER FIXED				
CODE	0	1	2	
IMAGE				

# NOTE		
ITEM	RATING CURRENT	OPERATING FORCE
1	Code:P1	H,S,L,J,D
2	Code:03	H,S,L,J,D
3	Code:06	H,S,L,J,D
4	Code:10	H,S

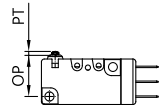
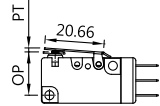
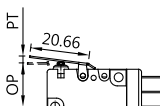
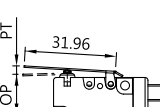
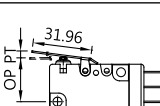
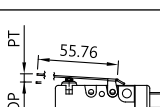
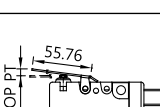
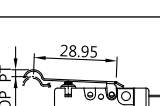
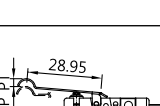
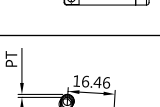
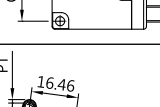
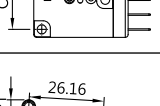
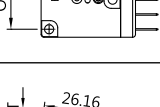
ACTUATOR TYPE				
CODE	00	01	02	03
IMAGE	NO LEVER			
CODE	04	05	06	
IMAGE				

CAUTIONS



Scan the QR code or download [https://www.zippy.com/ecmodelcautions/micro\\_switch\\_cautions.pdf](https://www.zippy.com/ecmodelcautions/micro_switch_cautions.pdf)

OPERATING CHARACTERISTICS

SWITCH TYPE	PART SUFFIX	OF Max. (gf)					OP (mm)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)
		D	J	L	S	H				
VW1- □□□ 0-00 □□ -Z		50	100	150	200	300	14.7 ± 0.4	1.2	1.0	0.4
VW1- □□□ 1-01 □□ -Z		45	85	125	160	255	15.1 ± 0.6	2.6	1.1	0.6
VW1- □□□ 2-01 □□ -Z		25	55	75	90	145	15.0 ± 1.1	5.1	1.2	1.1
VW1- □□□ 1-02 □□ -Z		30	60	85	110	160	14.8 ± 0.8	4.0	1.5	0.9
VW1- □□□ 2-02 □□ -Z		20	40	60	75	110	14.5 ± 1.6	8	2.4	1.8
VW1- □□□ 1-03 □□ -Z		20	40	55	70	100	H force:			
							12.4 ± 2.0	7.0	-	2.5
VW1- □□□ 2-03 □□ -Z		15	28	40	50	70	D, J, L, S force:			
							13.4 ± 2.0	7.0	-	2.0
VW1- □□□ 1-04 □□ -Z		36	65	95	125	185	H force:			
							11.9 ± 3.3	16.5	-	3.0
VW1- □□□ 2-04 □□ -Z		20	45	60	75	110	D, J, L, S force:			
							12.9 ± 3.3	17.5	-	3.0
VW1- □□□ 1-05 □□ -Z		55	100	150	200	300	20.6 ± 0.5	2.1	1.0	0.5
VW1- □□□ 2-05 □□ -Z		30	65	98	150	175	20.4 ± 0.9	4.2	1.2	0.9
VW1- □□□ 1-06 □□ -Z		40	70	105	130	195	20.4 ± 0.7	3.3	1.3	0.7
VW1- □□□ 2-06 □□ -Z		25	43	60	70	105	20.2 ± 1.2	6.5	1.5	1.4

\* There is another series of VW1 with MD reduced to 63%.