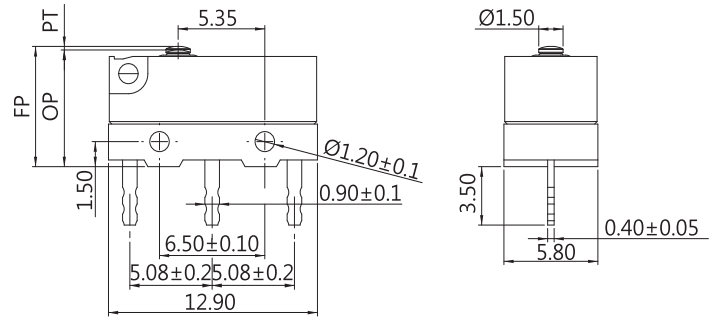


WATER PROOF SWITCHES

DIMENSIONS

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



DFW SERIES

SPECIFICATIONS

Contact Resistance (initial)

Max. 100m Ω

(Measured by ohm meter-Open Voltage < 1VDC, Driver current-100mA)

Insulation Resistance (at 500VDC/minute)

Min. 100M Ω

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

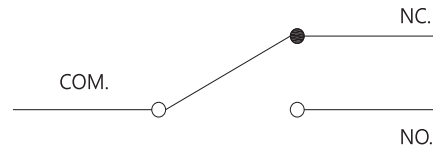
Mechanical Operating Frequency

120 operations per minute

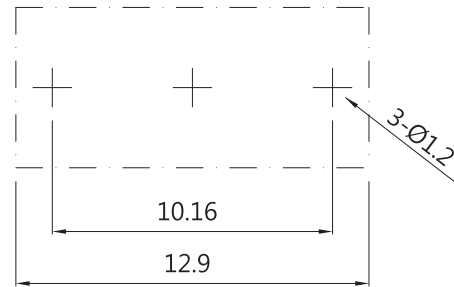
Operating application of the switch

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

CONTACT CONFIGURATION



MOUNTING HOLES



P Type

APPLICATIONS

Automotive (Operation system, Engine area Interior)

Air conditioner, communication, Electric tooth brush, Toy

CERTIFICATE INFORMATION

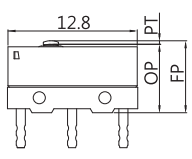
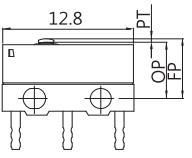
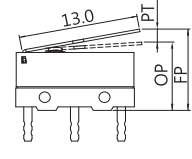
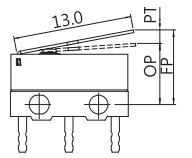
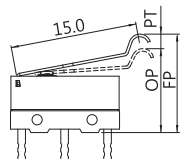
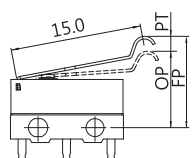
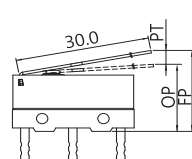
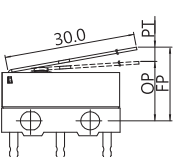
| Model Name | UL, cUL | ENEC |
|------------|---|---|
| DFW-P1 | 0.1RA 125/250VAC μ T85 1E4 3RA 24VDC μ T85 1E4 | 0.1A 125/250VAC μ T85 1E4 3A 24VDC μ T85 1E4 |
| DFW-05 | 5RA 125/250VAC μ T85 1E4 3RA 24VDC μ T85 1E4 | 5A 125/250VAC μ T85 1E4 3A 24VDC μ T85 1E4 |

THE SELECTION OF RATING & FORCE

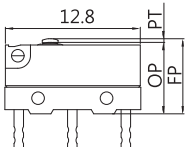
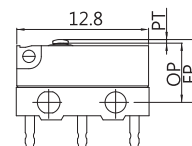
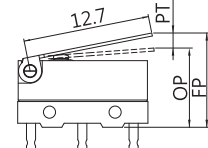
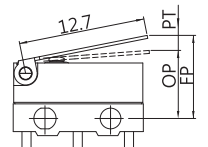
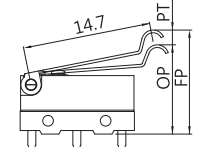
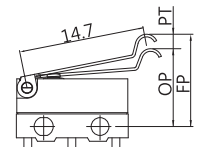
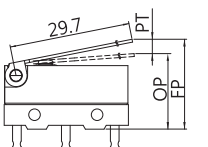
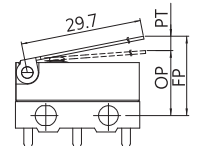
| Model | Rating | L | S |
|-------|--------|---|---|
| DFW | 0.1A | * | * |
| | 5A | * | * |

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

OPERATING CHARACTERISTICS (Internal snap-fit lever)

| 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 | | | | | | |
| DFW-□□□-A00□-Z |  | L | 100 | 7.0 ± 0.2 | 0.5 | 0.2 | 0.12 | 7.5 | 21 |
| | | S | 170 | | | | | | 35 |
| |  | L | 100 | 5.9 ± 0.2 | 0.5 | 0.2 | 0.12 | 6.4 | 21 |
| | | S | 170 | | | | | | 35 |
| DFW-□□□-A01□-Z |  | L | 32 | 8.2 ± 0.8 | 3.4 | 0.6 | 0.8 | 10.1 | 5 |
| | | S | 56 | | | | | | 8 |
| |  | L | 32 | 7.1 ± 0.8 | 3.4 | 0.6 | 0.8 | 9.0 | 5 |
| | | S | 56 | | | | | | 8 |
| DFW-□□□-A02□-Z |  | L | 28 | 10.2 ± 0.8 | 3.5 | 0.7 | 0.92 | 14.2 | 5 |
| | | S | 48 | | | | | | 7 |
| |  | L | 28 | 9.1 ± 0.8 | 3.5 | 0.7 | 0.92 | 13.1 | 5 |
| | | S | 48 | | | | | | 7 |
| DFW-□□□-A09□-Z |  | L | 15 | 9.5 ± 1.7 | 6.9 | 0.55 | 1.9 | 16.8 | 2 |
| | | S | 24 | | | | | | 3 |
| |  | L | 15 | 8.4 ± 1.7 | 6.9 | 0.55 | 1.9 | 15.7 | 2 |
| | | S | 24 | | | | | | 3 |

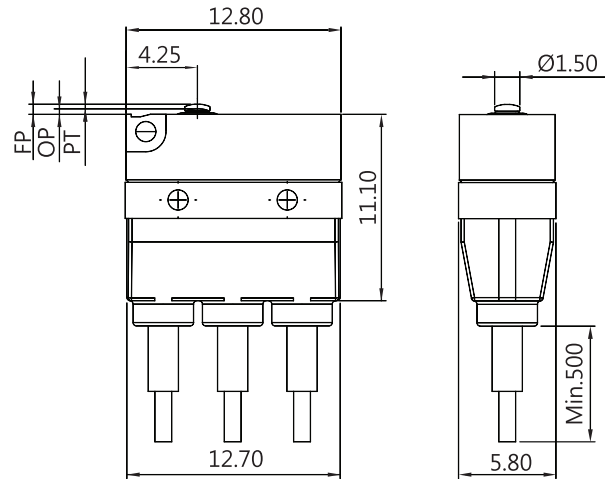
OPERATING CHARACTERISTICS (External snap-fit lever)

| 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 | | | | | | |
| DFW- □□□ -B00 □ -Z |  | L | 100 | 7.0 ± 0.2 | 0.5 | 0.2 | 0.12 | 7.5 | 21 |
| | | S | 170 | | | | | | 35 |
| |  | L | 100 | 5.9 ± 0.2 | 0.5 | 0.2 | 0.12 | 6.4 | 21 |
| | | S | 170 | | | | | | 35 |
| DFW- □□□ -B01 □ -Z |  | L | 32 | 8.2 ± 0.8 | 3.4 | 0.6 | 0.8 | 10.1 | 5 |
| | | S | 56 | | | | | | 8 |
| |  | L | 32 | 7.1 ± 0.8 | 3.4 | 0.6 | 0.8 | 9.0 | 5 |
| | | S | 56 | | | | | | 8 |
| DFW- □□□ -B02 □ -Z |  | L | 28 | 10.2 ± 0.8 | 3.5 | 0.7 | 0.92 | 14.2 | 5 |
| | | S | 48 | | | | | | 7 |
| |  | L | 28 | 9.1 ± 0.8 | 3.5 | 0.7 | 0.92 | 13.1 | 5 |
| | | S | 48 | | | | | | 7 |
| DFW- □□□ -B09 □ -Z |  | L | 15 | 9.5 ± 1.7 | 6.9 | 0.55 | 1.9 | 16.8 | 2 |
| | | S | 24 | | | | | | 3 |
| |  | L | 15 | 8.4 ± 1.7 | 6.9 | 0.55 | 1.9 | 15.7 | 2 |
| | | S | 24 | | | | | | 3 |

WATER PROOF SWITCHES

DIMENSIONS

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



DFW (IP67) SERIES

APPLICATIONS

Automotive (Operation system, Engine area Interior)
Air conditioner, communication, Electric tooth brush, toys

CERTIFICATE INFORMATION

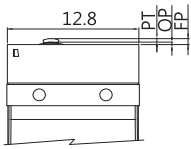
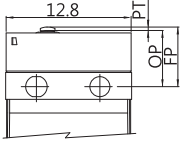
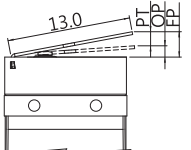
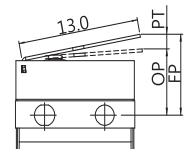
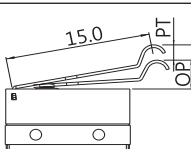
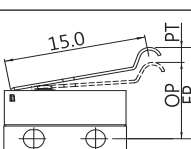
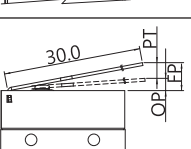
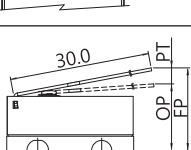
| Model Name | UL · cUL | ENEC |
|------------|---|---|
| DFW-P1 | 0.1RA 125/250VAC μ T85 1E4 3RA 24VDC μ T85 1E4 | 0.1A 125/250VAC μ T85 1E4 3A 24VDC μ T85 1E4 |
| DFW-05 | 5RA 125/250VAC μ T85 1E4 3RA 24VDC μ T85 1E4 | 5A 125/250VAC μ T85 1E4 3A 24VDC μ T85 1E4 |

ORDERING INFORMATION

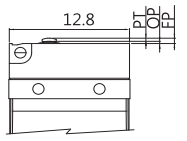
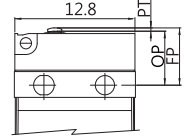
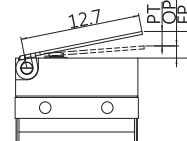
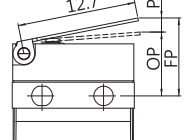
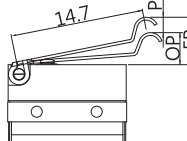
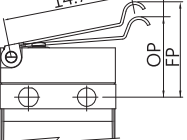
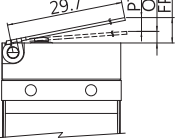
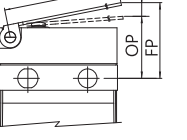
| SERIES PREFIX | CODE | RATING CURRENT | CODE | OPERATING FORCE | CODE | ACTUATOR TYPE | CODE | WIRE TYPE | CODE | CIRCUIT ARRANGEMENT | CODE | CASE & COVER TYPE | CODE | AWG TYPE | CODE | UL NUMBER | SERIAL CODE | ROHS CODE |
|---------------|------|--------------------|------|-----------------|------|---------------|------|-----------|------|---------------------|------|-------------------|------|----------|------|-----------|-------------|-----------|
| DFW | P1 | 0.1A 125/250VAC | S | STANDARD | A00 | | D | | 0 | S.P.D.T | A | | E | 20 AWG | A | UL1007 | 001 | Z |
| | 05 | 5A 125/250VAC | L | LIGHT | A01 | | R | | 1 | S.P.S.T NO | E | | F | 22 AWG | C | UL1430 | | |
| | | | | | A02 | | L | | 2 | S.P.S.T NC | | | G | 24 AWG | D | UL1061 | | |
| | | | | | B00 | | | | | | | | | | | | | |
| | | | | | B01 | | | | | | | | | | | | | |
| | | | | | B02 | | | | | | | | | | | | | |

WATER PROOF SWITCHES

OPERATING CHARACTERISTICS (Internal snap-fit lever)

| 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 | | | | | | |
| DFW- □□□ -A00 □ -Z |  | L | 100 | 0.4 ± 0.2 | 0.5 | 0.2 | 0.12 | 0.9 | 21 |
| | | S | 170 | | | | | | 35 |
| |  | L | 100 | 5.9 ± 0.2 | 0.5 | 0.2 | 0.12 | 6.4 | 21 |
| | | S | 170 | | | | | | 35 |
| DFW- □□□ -A01 □ -Z |  | L | 32 | 1.6 ± 0.8 | 3.4 | 0.6 | 0.8 | 3.5 | 5 |
| | | S | 56 | | | | | | 8 |
| |  | L | 32 | 7.1 ± 0.8 | 3.4 | 0.6 | 0.8 | 9.0 | 5 |
| | | S | 56 | | | | | | 8 |
| DFW- □□□ -A02 □ -Z |  | L | 28 | 3.6 ± 0.8 | 3.5 | 0.7 | 0.92 | 7.6 | 5 |
| | | S | 48 | | | | | | 7 |
| |  | L | 28 | 9.1 ± 0.8 | 3.5 | 0.7 | 0.92 | 13.1 | 5 |
| | | S | 48 | | | | | | 7 |
| DFW- □□□ -A09 □ -Z |  | L | 15 | 2.9 ± 1.7 | 6.9 | 0.55 | 1.9 | 10.2 | 2 |
| | | S | 24 | | | | | | 3 |
| |  | L | 15 | 8.4 ± 1.7 | 6.9 | 0.55 | 1.9 | 15.7 | 2 |
| | | S | 24 | | | | | | 3 |

OPERATING CHARACTERISTICS (External snap-fit lever)

| 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 | | | | | | |
| DFW- □□□ -B00 □ -Z |  | L | 100 | 0.4 ± 0.2 | 0.5 | 0.2 | 0.12 | 0.9 | 21 |
| | | S | 170 | | | | | | 35 |
| |  | L | 100 | 5.9 ± 0.2 | 0.5 | 0.2 | 0.12 | 6.4 | 21 |
| | | S | 170 | | | | | | 35 |
| DFW- □□□ -B01 □ -Z |  | L | 32 | 1.6 ± 0.8 | 3.4 | 0.6 | 0.8 | 3.5 | 5 |
| | | S | 56 | | | | | | 8 |
| |  | L | 32 | 7.1 ± 0.8 | 3.4 | 0.6 | 0.8 | 9.0 | 5 |
| | | S | 56 | | | | | | 8 |
| DFW- □□□ -B02 □ -Z |  | L | 28 | 3.6 ± 0.8 | 3.5 | 0.7 | 0.92 | 7.6 | 5 |
| | | S | 48 | | | | | | 7 |
| |  | L | 28 | 9.1 ± 0.8 | 3.5 | 0.7 | 0.92 | 13.1 | 5 |
| | | S | 48 | | | | | | 7 |
| DFW- □□□ -B09 □ -Z |  | L | 15 | 2.9 ± 1.7 | 6.9 | 0.55 | 1.9 | 10.2 | 2 |
| | | S | 24 | | | | | | 3 |
| |  | L | 15 | 8.4 ± 1.7 | 6.9 | 0.55 | 1.9 | 15.7 | 2 |
| | | S | 24 | | | | | | 3 |