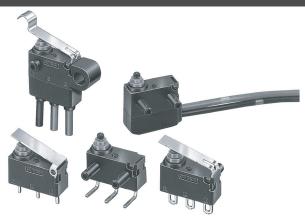
Sealed Subminiature Snap Action Switch

Smallest Sealed Snap-Action Switch in the Industry With a Long Stroke For Reliable ON/OFF Action

- Conforms to IP67
- · Case dimensions 22% smaller than conventional models
- Extra-long stroke even without levers (OT: 1.4 mm)
- All models are lead-free, including lead wire models
- RoHS Compliant



Ordering Information

Add "S" to the end of the model number for the UL/CSA-approved version. Consult your OMRON sales representative for details.

■ PCB-Mounted Models

Actuator	Terminals		Contact form	Model		
				With posts on right	With posts on left	Without posts
Pin plunger	For PCB	Straight	SPDT			D2HW-A201D
		Angled		D2HW-BR201DR	D2HW-BL201DL	
Hinge lever]	Straight				D2HW-A211D
~·		Angled		D2HW-BR211DR	D2HW-BL211DL	
Long hinge lever		Straight				D2HW-A221D
<u> </u>		Angled		D2HW-BR221DR	D2HW-BL221DL	
Simulated roller lever		Straight	1			D2HW-A231D
		Angled		D2HW-BR231DR	D2HW-BL231DL	

■ Models with Solder Terminals or Lead Wire Terminals

Actuator	Terminals	Terminals		Model	Model		
				With posts on right	With posts on left	M3-screw mounting	
					20		
Pin plunger	Solder		SPDT	D2HW-BR201H	D2HW-BL201H	D2HW-C201H	
	Lead wire	Downwards	SPDT	D2HW-BR201M	D2HW-BL201M	D2HW-C201M	
			SPST-NC	D2HW-BR202M	D2HW-BL202M	D2HW-C202M	
			SPST-NO	D2HW-BR203M	D2HW-BL203M	D2HW-C203M	

(This table continues on the next page.)

Ordering Information - continued from previous page

Actuator	Terminals		Contact form	Model		
				With posts on right	With posts on left	M3-screw mounting
					20	
Pin plunger	Lead wire	Right-side	SPST-NC	D2HW-BR202MR	D2HW-BL202MR	D2HW-C202MR
			SPST-NO	D2HW-BR203MR	D2HW-BL203MR	D2HW-C203MR
		Left-side	SPST-NC	D2HW-BR202ML	D2HW-BL202ML	—
			SPST-NO	D2HW-BR203ML	D2HW-BL203ML	—
Hinge lever	Solder		SPDT	D2HW-BR211H	D2HW-BL211H	D2HW-C211H
~	Lead wire	Downwards	SPDT	D2HW-BR211M	D2HW-BL211M	D2HW-C211M
			SPST-NC	D2HW-BR212M	D2HW-BL212M	D2HW-C212M
			SPST-NO	D2HW-BR213M	D2HW-BL213M	D2HW-C213M
		Right-side	SPST-NC	D2HW-BR212MR	D2HW-BL212MR	D2HW-C212MR
			SPST-NO	D2HW-BR213MR	D2HW-BL213MR	D2HW-C213MR
		Left-side	SPST-NC	D2HW-BR212ML	D2HW-BL212ML	—
			SPST-NO	D2HW-BR213ML	D2HW-BL213ML	—
Long hinge	Solder		SPDT	D2HW-BR221H	D2HW-BL221H	D2HW-C221H
lever	Lead wire	Downwards	SPDT	D2HW-BR221M	D2HW-BL221M	D2HW-C221M
			SPST-NC	D2HW-BR222M	D2HW-BL222M	D2HW-C222M
			SPST-NO	D2HW-BR223M	D2HW-BL223M	D2HW-C223M
		Right-side	SPST-NC	D2HW-BR222MR	D2HW-BL222MR	D2HW-C222MR
			SPST-NO	D2HW-BR223MR	D2HW-BL223MR	D2HW-C223MR
		Left-side	SPST-NC	D2HW-BR222ML	D2HW-BL222ML	—
			SPST-NO	D2HW-BR223ML	D2HW-BL223ML	—
Simulated roller	Solder		SPDT	D2HW-BR231H	D2HW-BL231H	D2HW-C231H
hinge lever	Lead wire	Downwards	SPDT	D2HW-BR231M	D2HW-BL231M	D2HW-C231M
			SPST-NC	D2HW-BR232M	D2HW-BL232M	D2HW-C232M
			SPST-NO	D2HW-BR233M	D2HW-BL233M	D2HW-C233M
		Right-side	SPST-NC	D2HW-BR232MR	D2HW-BL232MR	D2HW-C232MR
			SPST-NO	D2HW-BR233MR	D2HW-BL233MR	D2HW-C233MR
		Left-side	SPST-NC	D2HW-BR232ML	D2HW-BL232ML	—
			SPST-NO	D2HW-BR233ML	D2HW-BL233ML	—
Hinge roller leve	r Solder		SPDT	D2HW-BR241H	D2HW-BL241H	D2HW-C241H
ଜ	Lead wire	Downwards	SPDT	D2HW-BR241M	D2HW-BL241M	D2HW-C241M
<u> </u>			SPST-NC	D2HW-BR242M	D2HW-BL242M	D2HW-C242M
			SPST-NO	D2HW-BR243M	D2HW-BL243M	D2HW-C243M
		Right-side	SPST-NC	D2HW-BR242MR	D2HW-BL242MR	D2HW-C242MR
			SPST-NO	D2HW-BR243MR	D2HW-BL243MR	D2HW-C243MR
		Left-side	SPST-NC	D2HW-BR242ML	D2HW-BL242ML	
			SPST-NO	D2HW-BR243ML	D2HW-BL243ML	
Leaf lever	Solder		SPDT	D2HW-BR261H	D2HW-BL261H	D2HW-C261H
<u> </u>	Lead wire	Downwards	SPDT	D2HW-BR261M	D2HW-BL261M	D2HW-C261M
			SPST-NC	D2HW-BR262M	D2HW-BL262M	D2HW-C262M
			SPST-NO	D2HW-BR263M	D2HW-BL263M	D2HW-C263M
		Right-side	SPST-NC	D2HW-BR262MR	D2HW-BL262MR	D2HW-C262MR
			SPST-NO	D2HW-BR263MR	D2HW-BL263MR	D2HW-C263MR
		Left-side	SPST-NC	D2HW-BR262ML	D2HW-BL262ML	—
			SPST-NO	D2HW-BR263ML	D2HW-BL263ML	—

Add "S" to the end of the model number for the UL/CSA-approved version. Consult your OMRON sales representative for details.

(This table continues on the next page.)

Ordering Information - continued from previous page

Actuator	Terminals		Contact form	Model			
				With posts on right	With posts on left	M3-screw mounting	
Simulated roller	Solder		SPDT	D2HW-BR271H	D2HW-BL271H	D2HW-C271H	
leaf lever	Lead wire	Downwards	SPDT	D2HW-BR271M	D2HW-BL271M	D2HW-C271M	
<u> </u>			SPST-NC	D2HW-BR272M	D2HW-BL272M	D2HW-C272M	
			SPST-NO	D2HW-BR273M	D2HW-BL273M	D2HW-C273M	
		Right-side	SPST-NC	D2HW-BR272MR	D2HW-BL272MR	D2HW-C272MR	
			SPST-NO	D2HW-BR273MR	D2HW-BL273MR	D2HW-C273MR	
		Left-side	SPST-NC	D2HW-BR272ML	D2HW-BL272ML	-	
			SPST-NO	D2HW-BR273ML	D2HW-BL273ML	-	
Long leaf lever	Lead wire	Downwards	SPDT	D2HW-BR281M	D2HW-BL281M	D2HW-C281M	
Λ			SPST-NC	D2HW-BR282M	D2HW-BL282M	D2HW-C282M	
			SPST-NO	D2HW-BR283M	D2HW-BL283M	D2HW-C283M	
		Right-side	SPST-NC	—	—	D2HW-C282MR	
			SPST-NO	—	—	D2HW-C283MR	

Note: 1. The length of standard lead wires (AVSS 0.5 = standard with UL1007 AWG 24 used on UL/CSA models.) for lead wire models is 30 cm (12 in).
2. Add "S" to the end of the model number for the UL/CSA-approved version. Consult your OMRON sales representative for details.

Specifications

Characteristics

Item	Specification
Operating speed	1 mm to 500 mm/s (for pin plunger models)
Operating frequency	30 operations/min.
Insulation resistance	100 MΩ min. (at 500 VDC)
Contact resistance (initial value)	100 m Ω max. (lead wire models: 150 m Ω max.)
Dielectric strength	600 VAC, 50/60 Hz for 1 min. between terminals of the same polarity 1,500 VAC,50/60 Hz for 1 min. between current-carrying metal parts and ground, and between each terminal and non-current-carrying metal parts
Vibration resistance (See note 2)	Malfunction: 10 to 55 Hz, 1.5-mm double amplitude
Shock resistance (See note 2)	Destruction: 1,000 m/s ² max. Malfunction: 300 m/s ² max.
Life expectancy (Consult Omron for test conditions)	Mechanical: 1,000,000 operations min. (30 operations/min.) Electrical: 100,000 operations min. (20 operations/min.)
Degree of protection	IP67 (excluding the terminals on terminal models)
Degree of protection against electric shock	Class I
Proof tracking index (PTI)	175
Ambient operating temperature	-40 to 85°C (with no icing)
Ambient operating humidity	95% max. (in temperature range 5° to 35°C)
Weight	Approx. 0.7 g (for pin plunger models with terminals)

Note: 1. The data given above are initial values.

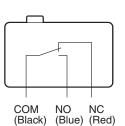
2. For the pin plunger models, the above values apply for use at the free position, operating position, and total travel position. For the lever models, they apply at the total travel position. The values shown apply for malfunctions of 1 ms max.

Ratings

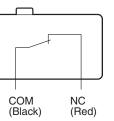
Rated voltage (V)	Resistive load
125 VAC	0.1 A
12 VDC	2 A
24 VDC	1 A
42 VDC	0.5 A

Note: The ratings apply under the following test conditions: Ambient Temperature = 20±2°C, Ambient Humidity = 65±5%, Operating frequency = 30 operations/min.

Contact Form SPDT



SPST-NC (Lead Wire Models Only)



Note: Lead wire colors are indicated in parentheses.

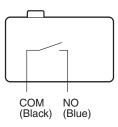
Approved Standards

Consult your OMRON sales representative for specific models with standard approvals.

UL1054 (File No. E41515)/CSA C22.2 No. 55 (UL approval)

Rated voltage	D2HW
125 VAC	0.1 A
12 VDC	2 A

SPST-NO (Lead Wire Models Only)



■ Contact Specifications

Item	Specification
Specification	Crossbar
Material	Gold alloy
Gap (standard value)	0.5 mm
Minimum applicable load (see note)	1 mA at 5 VDC

Note: Minimum applicable loads are indicated by N standard reference values. This value represents the failure rate at a 60% (λ_{60}) reliability level (JIS C5003).

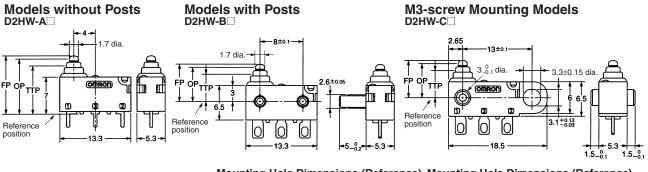
The equation $\lambda_{60}{=}0.5$ x 10⁻⁶/operations indicates that a failure rate of 1/2,000,000 operations can be expected at a reliability level of 60%.

Dimensions

Mounting Structure and Reference Positions for Operating Characteristics

Note: 1. All units are in millimeters unless otherwise indicated.

- 2. Dimensions not indicated in the diagrams have a tolerance of ±0.2 mm
- 3. The reference positions used for FP, OP, and TTP values are as shown below for each type of mounting.

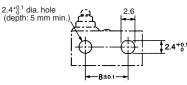


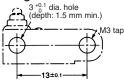
Mounting Hole Dimensions (Reference) Mounting Hole Dimensions (Reference)

1.8

(12)

(5)





Solder Terminals

3.5

Three-2

0.5

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4 38 4 38

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Lead Wires Downwards

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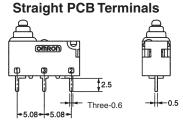
COM AVSS 0.5

NO AVSS 0.5 (Blue)

NC AVSS 0.5 (Red) See Note

(Black)

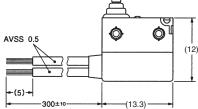
Terminals

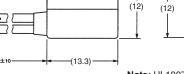


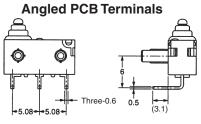
PCB Cutout Dimensions (Reference)



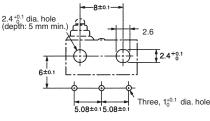
Lead Wires on Left-side



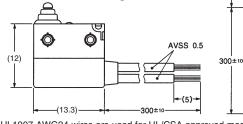




PCB Cutout Dimensions (Reference)



Lead Wires on Right-side





Angled terminal directions are shown below.





Left-angled terminal

Dimensions and Operating Characteristics

Note: 1. All units are in millimeters unless otherwise indicated.

2. Dimensions not indicated in the diagrams below have a tolerance of ± 0.2 mm.

34+

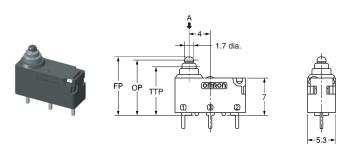
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3. The operating characteristics are for operation in the A direction (\blacksquare).

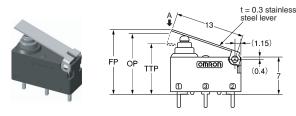
Pin Plunger Models

D2HW-02000



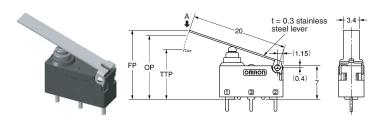
Characteristic	Models without posts	Models with posts and M3-mounting models
OF max.	0.75 N {76 gf}	
RF min.	0.10 N {10 gf}	
OT ref.	1.4 mm (reference value)	
MD max.	0.25 mm	
FP max.	11.2 mm	7.2 mm
OP	10.4±0.2 mm	6.4±0.2 mm
TTP max.	9.1 mm	5.1 mm

Hinge Lever Models



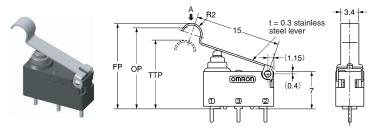
Characteristic	Models without posts	Models with posts and M3-mounting models
OF max. RF min.	0.75 N {76 gf} 0.07 N {7 gf}	
OT ref.	1.6 mm (reference value)	
MD max.	0.5 mm	
FP max.	12.8 mm	8.8 mm
OP	11.5±0.5 mm	7.5±0.5 mm
TTP max.	10 mm	6 mm

Long Hinge Lever Models D2HW-D22D



Models with posts Models without and M3-mounting Characteristic posts models OF max. 0.5 N {50 gf} RF min. 0.03 N {3 gf} OT ref. 2.5 mm (reference value) MD max. 0.8 mm FP max. 15.5 mm 11.5 mm OP 13.3±0.8 mm 9.3±0.8 mm TTP max. 11 mm 7 mm

Simulated Roller Hinge Lever Models D2HW-223



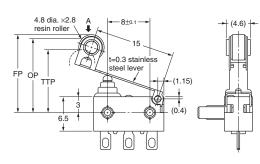
Characteristic	Models without posts	Models with posts and M3-mounting models
OF max. RF min.	0.65 N {66 gf} 0.05 N {5 gf}	
OT ref.	1.9 mm (reference value)	
MD max.	0.5 mm	
FP max.	16.5 mm	12.5 mm
OP	15.2±0.5 mm	11.2±0.5 mm
TTP max.	13.5 mm	9.5 mm

Note: 1. All units are in millimeters unless otherwise indicated.

- 2. Dimensions not indicated in the diagrams below have a tolerance of ± 0.2 mm.
- 3. The operating characteristics are for operation in the A direction (\blacksquare).

Hinge Roller Lever Models D2HW-D24D

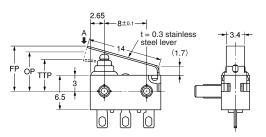




Characteristic	Models with posts and M3-mounting models
OF max.	0.65 N {66 gf}
RF min.	0.03 N {3 gf}
OT ref.	1.9 mm (reference value)
MD max.	0.6 mm
FP max.	15.3 mm
OP	14±0.6 mm
TTP max.	12.3 mm

Leaf Lever Models



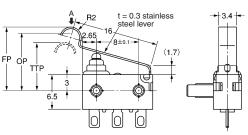


Characteristic	Models with posts and M3-mounting models
OF max.	1.8 N {183 gf}
RF min.	0.20 N {20 gf}
OT ref.	1.8 mm (reference value)
MD max.	0.5 mm
FP max.	9.3 mm
OP	7.4±0.5 mm
TTP max.	5.8 mm

Simulated Roller Leaf Lever Models

D2HW-27



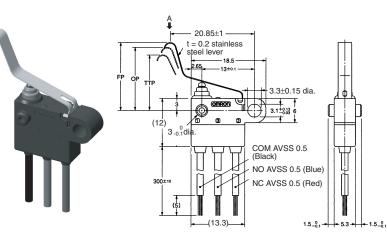


Characteristic	Models with posts and M3-mounting models
OF max.	1.8 N {183 gf}
RF min.	0.20 N {20 gf}
OT ref.	2.0 mm (reference value)
MD max.	0.5 mm
FP max.	12.5 mm
OP	10.8±0.5 mm
TTP max.	8.9 mm

Characteristic	Models with posts and M3-mounting models
OF max.	0.9 N {92 gf}
RF min.	0.05 N {5 gf}
OT ref.	2.8 mm (reference value)
MD max.	0.7 mm
FP max.	19 mm
OP	15.4±1.5 mm
TTP max.	12.8 mm

Note: UL1007 AWG24 wires are used for UL/CSA approved models.

Long Leaf Lever Models



Precautions

Be sure to read the precautions and information common to all Snap Action and Detection Switches, contained in the Technical User's Guide, "Snap Action Switches, Technical Information" for correct use.

■ Cautions

Degree of Protection

IEC Publication 529, degree of protection IP67.

Do not use this product in water. Although molded lead wire models satisfy the test conditions for the standard given below, this test is to check the ingress of water into the switch enclosure after submerging the Switch in water for a given time. Satisfying this test condition does not mean that the Switch can be used in water.

Do not operate the Switch when it is exposed to water spray, or when water drops adhere to the Switch surface, or during sudden temperature changes, otherwise water may intrude into the interior of the Switch due to a suction effect.

Prevent the Switch from coming into contact with oil and chemicals. Otherwise, damage to or deterioration of Switch materials may result.

Do not use the Switch in areas where it is exposed to silicon adhesives, oil, or grease, otherwise faulty contact may result due to the generation of silicon oxide.

Terminal Connection

When soldering the lead wire to the terminal, first insert the lead wire conductor through the terminal hole and then conduct soldering.

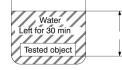
Made sure that the capacity of the soldering iron is 30 W maximum. Do not take more than 3 s to solder the switch terminal. Improper soldering involving an excessively high temperature or excessive soldering time may deteriorate the characteristics of the Switch.

When soldering the lead wire to the PCB terminal, pay careful attention so that the flux and solder liquid level does not exceed the PCB level.

Side-actuated (Cam/Dog) Operation

When using a cam or dog to operate the Switch, factors such as the operating speed, operating frequency, push-button indentation, and material and shape of the cam or dog will affect the durability of the Switch. Confirm performance specifications under actual operation conditions before using the Switch in applications.

IEC Publication 529, degree of protection IP67.



Correct Use

Mounting

Turn OFF the power supply before mounting or removing the Switch, wiring, or performing maintenance or inspection. Failure to do so may result in electric shock or burning.

For M3-screw mounting models, use M3 mounting screws with plane washers or spring washers to securely mount the Switch. Tighten the screws to a torque of 0.27 to 0.29 N·m. Exceeding the specified torque may result in deterioration of the sealing or damage.

For models with posts, secure the posts by thermal caulking or by pressing into an attached device. When pressed into an attached device, provide guides on the opposite ends of the posts to ensure that they do not fall out or rattle.

Mount the Switch onto a flat surface. Mounting on an uneven surface may cause deformation of the Switch, resulting in faulty operation or damage.

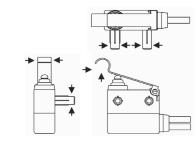
Operating Body

Use an operating body with low frictional resistance and of a shape that will not interfere with the sealing rubber, otherwise the plunger may be damaged or the sealing may deteriorate.

Handling

Do not handle the Switch in a way that may cause damage to the sealing rubber.

When handling the Switch, ensure that pressure is not applied to the posts in the directions shown in the following diagram. Also, ensure that uneven pressure or pressure in a direction other than the operating direction is not applied to the Actuator as shown in the following diagram. Otherwise, the post, Actuator, or Switch may be damaged, or the service life may be reduced.



Wiring Molded Lead Wire Models

When wiring molded lead wire models, ensure that there is no weight on the wire or that there are no sharp bends near the parts where the wire is drawn out. Otherwise, damage to the Switch or deterioration in the sealing may result.

Using Micro Loads

Even when using micro load models within the operating range, inrush currents or surges may decrease the life expectancy of the Switch. Therefore, insert a contact protection circuit where necessary.

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