














List of Models












●PCB-mounted Models

List of Models				Long post on right 	Short post on right 
Actuator	Terminals	Contact form			
Pin plunger 	For PCB	Straight	SPDT	-	-
		Angled		D2HW-BR201DR	D2HW-ER201DR
Hinge lever 		Straight		-	-
		Angled		D2HW-BR211DR	D2HW-ER211DR
Long hinge lever 		Straight		-	-
		Angled		D2HW-BR221DR	D2HW-ER221DR
Simulated roller hinge lever 		Straight		-	-
		Angled		D2HW-BR231DR	D2HW-ER231DR

List of Models				Long post on left 	Short post on left 	Without posts 
Actuator	Terminals	Contact form				
Pin plunger 	For PCB	Straight	SPDT	-	-	D2HW-A201D
		Angled		D2HW-BL201DL	D2HW-EL201DL	-
Hinge lever 		Straight		-	-	D2HW-A211D
		Angled		D2HW-BL211DL	D2HW-EL211DL	-
Long hinge lever 		Straight		-	-	D2HW-A221D
		Angled		D2HW-BL221DL	D2HW-EL221DL	-
Simulated roller hinge lever 		Straight		-	-	D2HW-A231D
		Angled		D2HW-BL231DL	D2HW-EL231DL	-

Note1. Angled terminals and posts are the same direction.
Note2. "S" is added to the end of the model number for the UL/cUL-approved version Consult your OMRON sales representative for details.






















●Models with Solder Terminals or Molded Lead Wires

List of Models			Long post on right 	Short post on right 	
Actuator	Terminals		Contact form		
Pin plunger 	Solder		SPDT	D2HW-BR201H	D2HW-ER201H
	Molded lead wires	Downwards	SPDT	D2HW-BR201M	D2HW-ER201M
			SPST-NC	D2HW-BR202M	D2HW-ER202M
			SPST-NO	D2HW-BR203M	D2HW-ER203M
		Right-side	SPST-NC	D2HW-BR202MR	D2HW-ER202MR
			SPST-NO	D2HW-BR203MR	D2HW-ER203MR
			Left-side	SPST-NC	D2HW-BR202ML
	SPST-NO	D2HW-BR203ML		D2HW-ER203ML	
Hinge lever 	Solder		SPDT	D2HW-BR211H	D2HW-ER211H
	Molded lead wires	Downwards	SPDT	D2HW-BR211M	D2HW-ER211M
			SPST-NC	D2HW-BR212M	D2HW-ER212M
			SPST-NO	D2HW-BR213M	D2HW-ER213M
		Right-side	SPST-NC	D2HW-BR212MR	D2HW-ER212MR
			SPST-NO	D2HW-BR213MR	D2HW-ER213MR
			Left-side	SPST-NC	D2HW-BR212ML
	SPST-NO	D2HW-BR213ML		D2HW-ER213ML	
Long hinge lever 	Solder		SPDT	D2HW-BR221H	D2HW-ER221H
	Molded lead wires	Downwards	SPDT	D2HW-BR221M	D2HW-ER221M
			SPST-NC	D2HW-BR222M	D2HW-ER222M
			SPST-NO	D2HW-BR223M	D2HW-ER223M
		Right-side	SPST-NC	D2HW-BR222MR	D2HW-ER222MR
			SPST-NO	D2HW-BR223MR	D2HW-ER223MR
			Left-side	SPST-NC	D2HW-BR222ML
	SPST-NO	D2HW-BR223ML		D2HW-ER223ML	
Simulated roller hinge lever 	Solder		SPDT	D2HW-BR231H	D2HW-ER231H
	Molded lead wires	Downwards	SPDT	D2HW-BR231M	D2HW-ER231M
			SPST-NC	D2HW-BR232M	D2HW-ER232M
			SPST-NO	D2HW-BR233M	D2HW-ER233M
		Right-side	SPST-NC	D2HW-BR232MR	D2HW-ER232MR
			SPST-NO	D2HW-BR233MR	D2HW-ER233MR
			Left-side	SPST-NC	D2HW-BR232ML
	SPST-NO	D2HW-BR233ML		D2HW-ER233ML	
Hinge roller lever 	Solder		SPDT	D2HW-BR241H	D2HW-ER241H
	Molded lead wires	Downwards	SPDT	D2HW-BR241M	D2HW-ER241M
			SPST-NC	D2HW-BR242M	D2HW-ER242M
			SPST-NO	D2HW-BR243M	D2HW-ER243M
		Right-side	SPST-NC	D2HW-BR242MR	D2HW-ER242MR
			SPST-NO	D2HW-BR243MR	D2HW-ER243MR
			Left-side	SPST-NC	D2HW-BR242ML
	SPST-NO	D2HW-BR243ML		D2HW-ER243ML	
Straight leaf lever 	Solder		SPDT	D2HW-BR251H	D2HW-ER251H
	Molded lead wires	Downwards	SPDT	D2HW-BR251M	D2HW-ER251M
			SPST-NC	D2HW-BR252M	D2HW-ER252M
			SPST-NO	D2HW-BR253M	D2HW-ER253M
		Right-side	SPST-NC	D2HW-BR252MR	D2HW-ER252MR
			SPST-NO	D2HW-BR253MR	D2HW-ER253MR
			Left-side	SPST-NC	D2HW-BR252ML
	SPST-NO	D2HW-BR253ML		D2HW-ER253ML	
Leaf lever 	Solder		SPDT	D2HW-BR261H	D2HW-ER261H
	Molded lead wires	Downwards	SPDT	D2HW-BR261M	D2HW-ER261M
			SPST-NC	D2HW-BR262M	D2HW-ER262M
			SPST-NO	D2HW-BR263M	D2HW-ER263M
		Right-side	SPST-NC	D2HW-BR262MR	D2HW-ER262MR
			SPST-NO	D2HW-BR263MR	D2HW-ER263MR
			Left-side	SPST-NC	D2HW-BR262ML
	SPST-NO	D2HW-BR263ML		D2HW-ER263ML	
Simulated roller leaf lever 	Solder		SPDT	D2HW-BR271H	D2HW-ER271H
	Molded lead wires	Downwards	SPDT	D2HW-BR271M	D2HW-ER271M
			SPST-NC	D2HW-BR272M	D2HW-ER272M
			SPST-NO	D2HW-BR273M	D2HW-ER273M
		Right-side	SPST-NC	D2HW-BR272MR	D2HW-ER272MR
			SPST-NO	D2HW-BR273MR	D2HW-ER273MR
			Left-side	SPST-NC	D2HW-BR272ML
	SPST-NO	D2HW-BR273ML		D2HW-ER273ML	
Long leaf lever 	Molded lead wires	Downwards	SPDT	D2HW-BR281M	D2HW-ER281M
			SPST-NC	D2HW-BR282M	D2HW-ER282M
			SPST-NO	D2HW-BR283M	D2HW-ER283M
		Right-side	SPST-NC	D2HW-BR282MR	D2HW-ER282MR
			SPST-NO	D2HW-BR283MR	D2HW-ER283MR
			Left-side	SPST-NC	D2HW-BR282ML
	SPST-NO	D2HW-BR283ML		D2HW-ER283ML	

Note1. The length of standard lead wires (AVSS 0.5) for molded lead wire models shown above is 30 cm.

Note2. "S" is added to the end of the model number for the UL/cUL-approved version The lead wire models are UL approved wires (AWG24, UL1007).
Consult your OMRON sales representative for details.

●Models with Solder Terminals or Molded Lead Wires

			List of Models	Long post on left 	Short post on left 	M3-screw mounting 	
Actuator	Terminals		Contact form				
	Solder		SPDT	D2HW-BL201H	D2HW-EL201H	D2HW-C201H	
		Downwards	SPDT	D2HW-BL201M	D2HW-EL201M	D2HW-C201M	
			SPST-NC	D2HW-BL202M	D2HW-EL202M	D2HW-C202M	
			SPST-NO	D2HW-BL203M	D2HW-EL203M	D2HW-C203M	
		Right-side	SPST-NC	D2HW-BL202MR	D2HW-EL202MR	D2HW-C202MR	
			SPST-NO	D2HW-BL203MR	D2HW-EL203MR	D2HW-C203MR	
			Left-side	SPST-NC	D2HW-BL202ML	D2HW-EL202ML	-
	SPST-NO	D2HW-BL203ML		D2HW-EL203ML	-		
	Solder		SPDT	D2HW-BL211H	D2HW-EL211H	D2HW-C211H	
		Downwards	SPDT	D2HW-BL211M	D2HW-EL211M	D2HW-C211M	
			SPST-NC	D2HW-BL212M	D2HW-EL212M	D2HW-C212M	
			SPST-NO	D2HW-BL213M	D2HW-EL213M	D2HW-C213M	
		Right-side	SPST-NC	D2HW-BL212MR	D2HW-EL212MR	D2HW-C212MR	
			SPST-NO	D2HW-BL213MR	D2HW-EL213MR	D2HW-C213MR	
			Left-side	SPST-NC	D2HW-BL212ML	D2HW-EL212ML	-
	SPST-NO	D2HW-BL213ML		D2HW-EL213ML	-		
	Solder		SPDT	D2HW-BL221H	D2HW-EL221H	D2HW-C221H	
		Downwards	SPDT	D2HW-BL221M	D2HW-EL221M	D2HW-C221M	
			SPST-NC	D2HW-BL222M	D2HW-EL222M	D2HW-C222M	
			SPST-NO	D2HW-BL223M	D2HW-EL223M	D2HW-C223M	
		Right-side	SPST-NC	D2HW-BL222MR	D2HW-EL222MR	D2HW-C222MR	
			SPST-NO	D2HW-BL223MR	D2HW-EL223MR	D2HW-C223MR	
			Left-side	SPST-NC	D2HW-BL222ML	D2HW-EL222ML	-
	SPST-NO	D2HW-BL223ML		D2HW-EL223ML	-		
	Solder		SPDT	D2HW-BL231H	D2HW-EL231H	D2HW-C231H	
		Downwards	SPDT	D2HW-BL231M	D2HW-EL231M	D2HW-C231M	
			SPST-NC	D2HW-BL232M	D2HW-EL232M	D2HW-C232M	
			SPST-NO	D2HW-BL233M	D2HW-EL233M	D2HW-C233M	
		Right-side	SPST-NC	D2HW-BL232MR	D2HW-EL232MR	D2HW-C232MR	
			SPST-NO	D2HW-BL233MR	D2HW-EL233MR	D2HW-C233MR	
			Left-side	SPST-NC	D2HW-BL232ML	D2HW-EL232ML	-
	SPST-NO	D2HW-BL233ML		D2HW-EL233ML	-		
	Solder		SPDT	D2HW-BL241H	D2HW-EL241H	D2HW-C241H	
		Downwards	SPDT	D2HW-BL241M	D2HW-EL241M	D2HW-C241M	
			SPST-NC	D2HW-BL242M	D2HW-EL242M	D2HW-C242M	
			SPST-NO	D2HW-BL243M	D2HW-EL243M	D2HW-C243M	
		Right-side	SPST-NC	D2HW-BL242MR	D2HW-EL242MR	D2HW-C242MR	
			SPST-NO	D2HW-BL243MR	D2HW-EL243MR	D2HW-C243MR	
			Left-side	SPST-NC	D2HW-BL242ML	D2HW-EL242ML	-
	SPST-NO	D2HW-BL243ML		D2HW-EL243ML	-		
	Solder		SPDT	D2HW-BL251H	D2HW-EL251H	D2HW-C251H	
		Downwards	SPDT	D2HW-BL251M	D2HW-EL251M	D2HW-C251M	
			SPST-NC	D2HW-BL252M	D2HW-EL252M	D2HW-C252M	
			SPST-NO	D2HW-BL253M	D2HW-EL253M	D2HW-C253M	
		Right-side	SPST-NC	D2HW-BL252MR	D2HW-EL252MR	D2HW-C252MR	
			SPST-NO	D2HW-BL253MR	D2HW-EL253MR	D2HW-C253MR	
			Left-side	SPST-NC	D2HW-BL252ML	D2HW-EL252ML	-
	SPST-NO	D2HW-BL253ML		D2HW-EL253ML	-		
	Solder		SPDT	D2HW-BL261H	D2HW-EL261H	D2HW-C261H	
		Downwards	SPDT	D2HW-BL261M	D2HW-EL261M	D2HW-C261M	
			SPST-NC	D2HW-BL262M	D2HW-EL262M	D2HW-C262M	
			SPST-NO	D2HW-BL263M	D2HW-EL263M	D2HW-C263M	
		Right-side	SPST-NC	D2HW-BL262MR	D2HW-EL262MR	D2HW-C262MR	
			SPST-NO	D2HW-BL263MR	D2HW-EL263MR	D2HW-C263MR	
			Left-side	SPST-NC	D2HW-BL262ML	D2HW-EL262ML	-
	SPST-NO	D2HW-BL263ML		D2HW-EL263ML	-		
	Solder		SPDT	D2HW-BL271H	D2HW-EL271H	D2HW-C271H	
		Downwards	SPDT	D2HW-BL271M	D2HW-EL271M	D2HW-C271M	
			SPST-NC	D2HW-BL272M	D2HW-EL272M	D2HW-C272M	
			SPST-NO	D2HW-BL273M	D2HW-EL273M	D2HW-C273M	
		Right-side	SPST-NC	D2HW-BL272MR	D2HW-EL272MR	D2HW-C272MR	
			SPST-NO	D2HW-BL273MR	D2HW-EL273MR	D2HW-C273MR	
			Left-side	SPST-NC	D2HW-BL272ML	D2HW-EL272ML	-
	SPST-NO	D2HW-BL273ML		D2HW-EL273ML	-		
	Solder		SPDT	D2HW-BL281H	D2HW-EL281M	D2HW-C281M	
		Downwards	SPST-NC	D2HW-BL282M	D2HW-EL282M	D2HW-C282M	
			SPST-NO	D2HW-BL283M	D2HW-EL283M	D2HW-C283M	
			SPST-NC	D2HW-BL282MR	D2HW-EL282MR	D2HW-C282MR	
		Right-side	SPST-NO	D2HW-BL283MR	D2HW-EL283MR	D2HW-C283MR	
			Left-side	SPST-NC	D2HW-BL282ML	D2HW-EL282ML	-
				SPST-NO	D2HW-BL283ML	D2HW-EL283ML	-

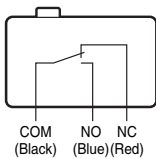
Note1. The length of standard lead wires (AVSS 0.5) for molded lead wire models shown above is 30 cm.

Note2. "S" is added to the end of the model number for the UL/cUL-approved version The lead wire models are UL approved wires (AWG24, UL1007).

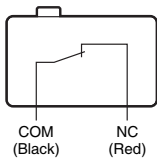
Consult your OMRON sales representative for details.

Contact form

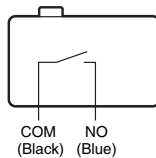
●SPDT



● SPST-NC, (Molded Lead Wire Models Only)



● SPST-NO, (Molded Lead Wire Models Only)



Molded lead wire colors are indicated in parentheses.

Contact Specifications

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

Ratings

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

Note. The above rating values apply under the following test conditions.
(1) Ambient temperature: 20±2°C
(2) Ambient humidity: 65±5 %
(3) Operating frequency: 30 operations/min

Approved Safety Standard

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

UL (UL61058-1/cUL C22.2 No.61058-1)

Rated voltage	Model	D2HW
	Item	Resistive load
100 VAC		0.1A
12 VDC		2A
24 VDC		1A
42 VDC		0.5A

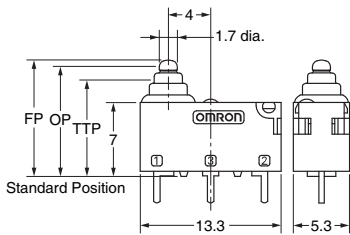
Characteristics

Permissible operating speed		1 mm to 500 mm/s (for pin plunger models)
Permissible operating frequency		30 operations/min
Insulation resistance		100 MΩ min. (at 500 VDC with insulation tester)
Contact resistance (initial value)	Terminals	100 mΩ max.
	Molded lead wire models	150 mΩ max.
Dielectric strength	Between terminals of the same polarity	600 VAC 50/60 Hz 1min
	Between current-carrying metal parts and ground	1,500 VAC 50/60 Hz 1 min
	Between terminals and non-current-carrying metal parts	1,500 VAC 50/60 Hz 1 min
Vibration resistance * 1	Malfunction	10 to 55 Hz, 1.5 mm double amplitude
Shock resistance	Durability	1,000 m/s ² {approx. 100G} max.
	Malfunction * 1	300 m/s ² {approx. 30G} max.
Durability * 2	Mechanical	1,000,000 operations min. (30 operations/min)
	Electrical	100,000 operations min. (20 operations/min)
Degree of protection	Terminals	IEC IP67 (excluding the terminals on terminal models)
	molded lead wire models	IEC IP67
Ambient operating temperature		-40 to +85°C (at ambient humidity of 60% max.) (with no icing or condensation)
Ambient operating humidity		95% max. (for +5 to +35°C)
Weight		Approx. 0.7 g (for pin plunger models with terminals)

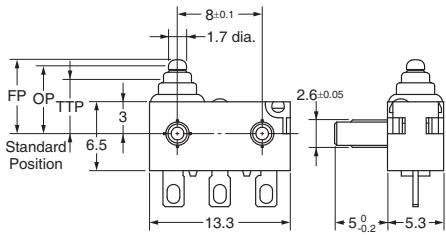
Note. The data given above are initial values.
*1. For the pin plunger models, the above values apply for use at the free position, operating position, and total travel position. For the lever models, they apply at the total travel position. Close or open circuit of the contact is 1ms max.
*2. For testing conditions, consult your OMRON sales representative.

Mounting Structure and Reference Positions for Operating Characteristics (Unit: mm)

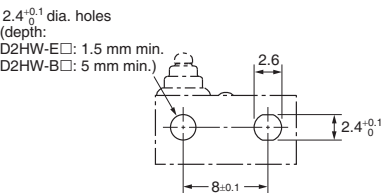
●Without posts
D2HW-A□



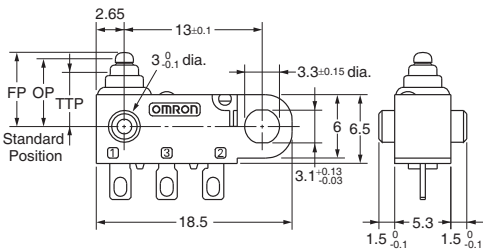
●Long post
D2HW-B□



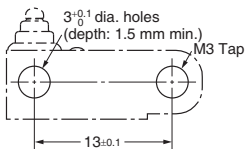
Mounting Hole Dimensions (Reference)



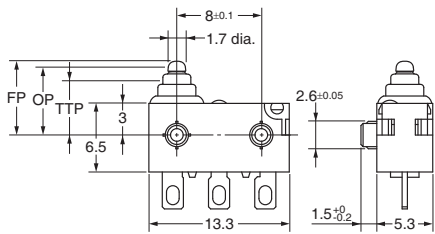
●M3-screw Mounting Models
D2HW-C□



Mounting Hole Dimensions (Reference)



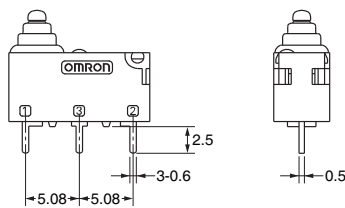
●Short post
D2HW-E□



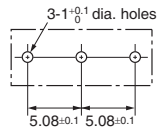
Note. The reference positions used for Free Position (FP), Operating Position (OP), and Total Travel Position (TTP) values are as shown above for each type of mounting.

Terminals/Appearances (Unit: mm)

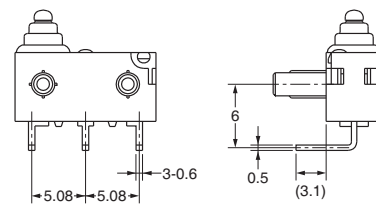
●PCB terminals (Straight)



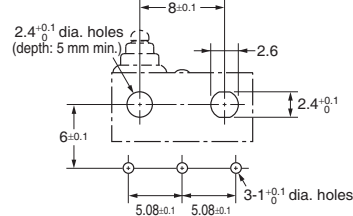
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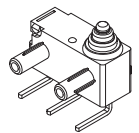
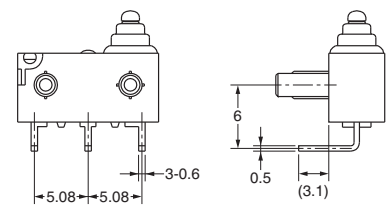
●PCB Terminals (Left-angled)



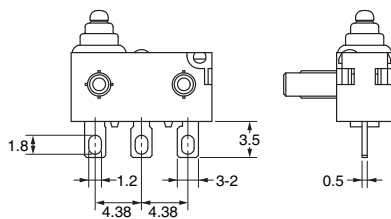
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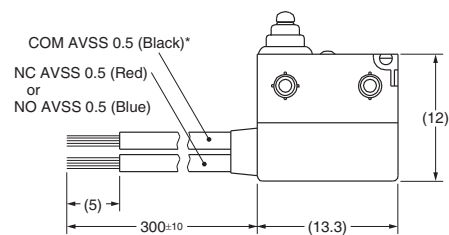
●PCB terminals (Right-angled)



●Solder terminals

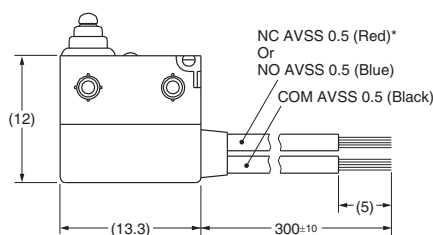


●Molded Lead Wires on Left-side



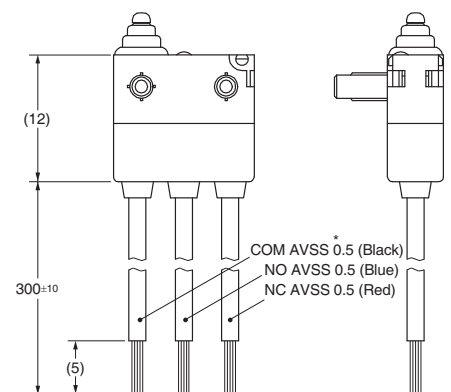
* UL approved wires (AWG24, UL1007) are used for UL/cUL standard approved items.

●Molded Lead Wires on Right-side



* UL approved wires (AWG24, UL1007) are used for UL/cUL standard approved items.

●Molded Lead Wires Downwards



* UL approved wires (AWG24, UL1007) are used for UL/cUL standard approved items.

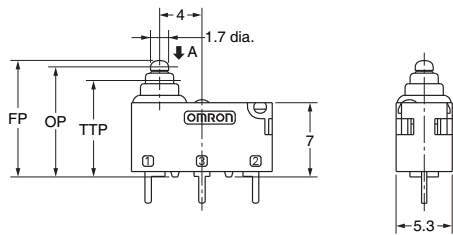
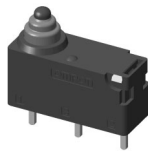
Dimensions (Unit: mm)/Operating Characteristics

The following illustrations and drawings are representative models. When ordering, replace □ with the code for the mounting structure, contact form and terminal that you need.
See the "■List of Models" for available combinations of appearances.
Refer to page 3 to 4 for the mounting structures and terminal forms.

●Pin plunger

D2HW-□20□□

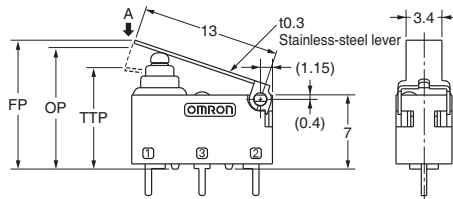
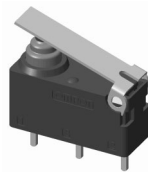
D
2
H
W



Operating characteristics	Type	Without posts	Models with Posts	M3-screw Mounting Models
Operating Force	OF Max.	0.75N {76 gf}		
Releasing Force	RF Min.	0.10N {10 gf}		
Overtravel	OT	1.4 mm (reference value)		
Movement Differential	MD Max.	0.25 mm		
Free Position	FP Max.	11.2 mm	7.2 mm	
Operating Position	OP	10.4±0.2 mm	6.4±0.2 mm	
Total Travel Position	TTP Max.	9.1 mm	5.1 mm	

●Hinge Lever

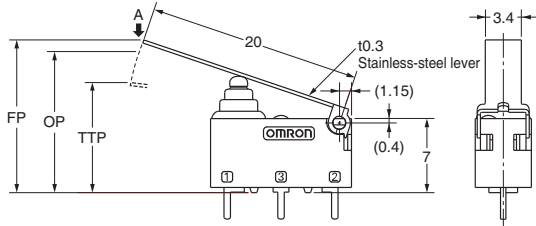
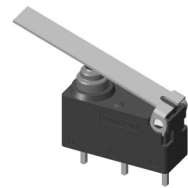
D2HW-□21□□



Operating characteristics	Type	Without posts	Models with Posts	M3-screw Mounting Models
Operating Force	OF Max.	0.75N {76 gf}		
Releasing Force	RF Min.	0.07N {7 gf}		
Overtravel	OT	1.6 mm (reference value)		
Movement Differential	MD Max.	0.5 mm		
Free Position	FP Max.	12.8 mm	8.8 mm	
Operating Position	OP	11.5±0.5 mm	7.5±0.5 mm	
Total Travel Position	TTP Max.	10 mm	6 mm	

●Long Hinge Lever

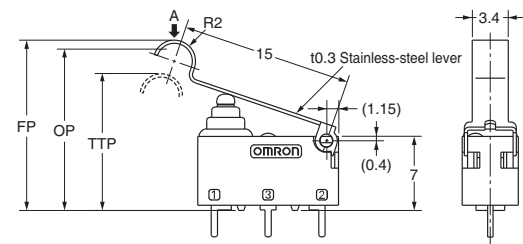
D2HW-□22□□



Operating characteristics	Type	Without posts	Models with Posts	M3-screw Mounting Models
Operating Force	OF Max.	0.5N {50 gf}		
Releasing Force	RF Min.	0.03N {3 gf}		
Overtravel	OT	2.5 mm (reference value)		
Movement Differential	MD Max.	0.8 mm		
Free Position	FP Max.	15.5 mm	11.5 mm	
Operating Position	OP	13.3±0.8 mm	9.3±0.8 mm	
Total Travel Position	TTP Max.	11 mm	7 mm	

●Simulated Roller Lever

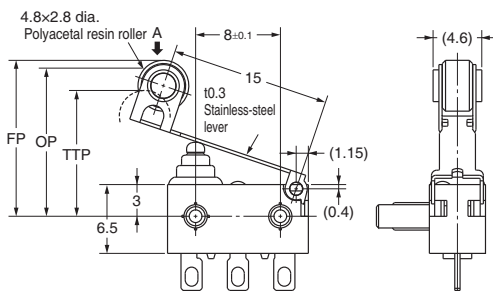
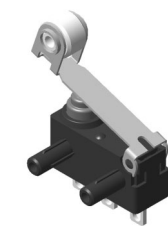
D2HW-□23□□



Operating characteristics	Type	Without posts	Models with Posts	M3-screw Mounting Models
Operating Force	OF Max.	0.65N {66 gf}		
Releasing Force	RF Min.	0.05N {5 gf}		
Overtravel	OT	1.9 mm (reference value)		
Movement Differential	MD Max.	0.5 mm		
Free Position	FP Max.	16.5 mm	12.5 mm	
Operating Position	OP	15.2±0.5 mm	11.2±0.5 mm	
Total Travel Position	TTP Max.	13.5 mm	9.5 mm	

●Hinge Roller Lever

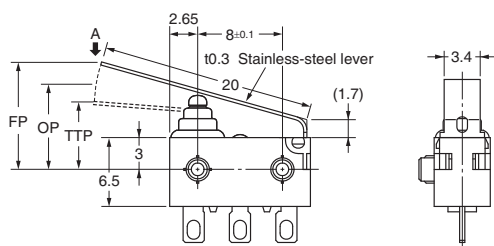
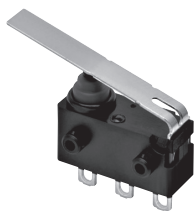
D2HW-□24□□



Operating characteristics	Type	Models with Posts	M3-screw Mounting Models
Operating Force	OF Max.	0.65N {66 gf}	
Releasing Force	RF Min.	0.03N {3 gf}	
Overtravel	OT	1.9 mm (reference value)	
Movement Differential	MD Max.	0.6 mm	
Free Position	FP Max.	15.3 mm	
Operating Position	OP	14±0.6 mm	
Total Travel Position	TTP Max.	12.3 mm	

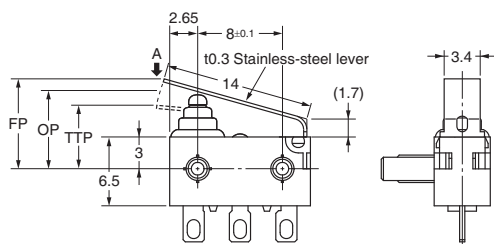
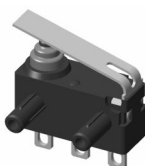
Note1. Unless otherwise specified, a tolerance of ±0.2mm applies to all dimensions.
Note2. The operating characteristics are for operation in the A direction (↓).

D2HW-□25□□



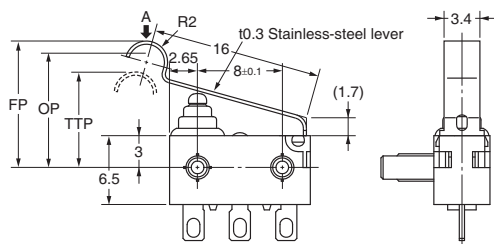
Operating characteristics			Type	Models with Posts	M3-screw Mounting Models
Operating Force	OF	Max.		1.2N {122 gf}	
Releasing Force	RF	Min.		0.05N {5 gf}	
Overtravel	OT			2.5 mm (reference value)	
Movement Differential	MD	Max.		0.7 mm	
Free Position	FP	Max.		11.9 mm	
Operating Position	OP			8.1±0.8 mm	
Total Travel Position	TTP	Max.		6.0 mm	

D2HW-□26□□

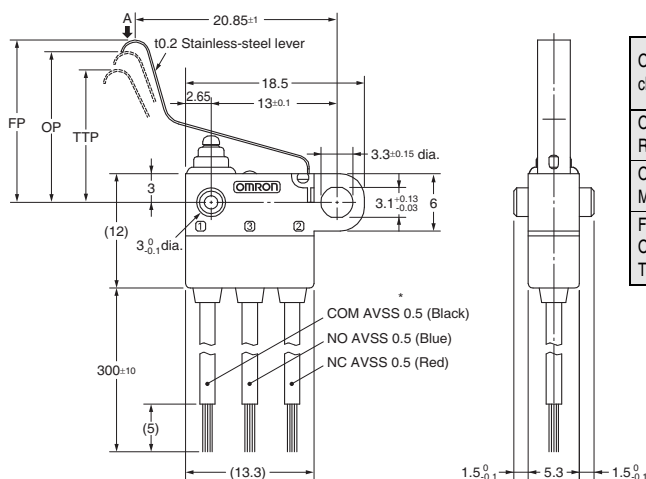
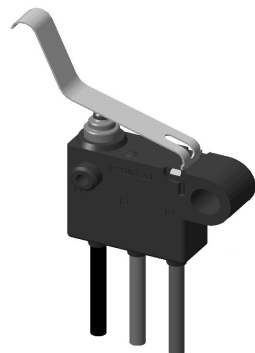


Operating characteristics			Type	Models with Posts	M3-screw Mounting Models
Operating Force	OF	Max.		1.8N {183 gf}	
Releasing Force	RF	Min.		0.20N {20 gf}	
Overtravel	OT			1.8 mm (reference value)	
Movement Differential	MD	Max.		0.5 mm	
Free Position	FP	Max.		9.3 mm	
Operating Position	OP			7.4±0.5 mm	
Total Travel Position	TTP	Max.		5.8 mm	

D2HW-27



Operating characteristics			Type	Models with Posts	M3-screw Mounting Models
Operating Force	OF	Max.		1.8N {183 gf}	
Releasing Force	RF	Min.		0.20N {20 gf}	
Overtravel	OT			2.0 mm (reference value)	
Movement Differential	MD	Max.		0.5 mm	
Free Position	FP	Max.		13.0 mm	
Operating Position	OP			10.8±0.5 mm	
Total Travel Position	TTP	Max.		8.9 mm	

D2HW-28

Operating characteristics			Type	Models with Posts	M3-screw Mounting Models
Operating Force	OF	Max.		0.9N {92 gf}	
Releasing Force	RF	Min.		0.05N {5 gf}	
Overtravel	OT			2.8 mm (reference value)	
Movement Differential	MD	Max.		0.7 mm	
Free Position	FP	Max.		19 mm	
Operating Position	OP			15.4±1.5 mm	
Total Travel Position	TTP	Max.		12.8 mm	

Note2. The operating characteristics are for operation in the A direction (↓).

Precautions

★Please refer to "General Information" for correct use.

Cautions

●Degree of Protection

- Do not use this product underwater.
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 underwater.

JIS C0920:

Degrees of protection provided by enclosures of electrical apparatus (IP Code)

IEC 60529:

Degrees of protection provided by enclosures (IP Code)

Degree of protection: IP67

(check water intrusion after immersion for 30 min. submerged 1m underwater)

- 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.

●Soldering

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

Make sure that the temperature of the soldering iron tip does not exceed 300°C, and complete the soldering within 3 seconds. Do not apply any external force for 1 minute after soldering.

Soldering at an excessively high temperature or soldering for more than 3 seconds may deteriorate the characteristics of the Switch.

In case of automatic soldering, please do not apply the heat beyond 260°C within 5 seconds. Pay careful attention so that flux or solder liquid does not flow over the edge of the PCB panel.

●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 operating conditions before using the Switch in applications.

Correct Use

●Mounting

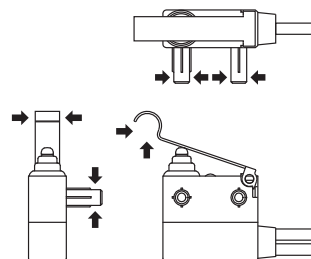
- Turn OFF the power supply before mounting or removing the Switch, wiring, or performing maintenance or inspection.
Failure to do so may result in electric shock or burning.
- For M3-screw mounting models, use M3 mounting screws with plane washers or spring washers to securely mount the Switch.
Tighten the screws to a torque of 0.27 to 0.29 N·m {27.5 to 29.5 gf}. 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.
Thermal caulking conditions varies according to the equipment, jig and base used for switch mounting. Consult your OMRON sales representative for details.

●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 applied 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, if inrush/surge current occurs, it may increase the contact wear and so decrease durability. Therefore, insert a contact protection circuit where necessary.

Please check each region's Terms & Conditions by region website.

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