

Subminiature basic switch offers long life and high reliability

- Same dimensions as SS series.
- Suitable to emerging market demand.
- Available by 5A.



Ordering Information

■ Model Number Legend

D2SJ-□□-□□□
1 2 3 4 5

1. Ratings

5: AC125V 5A

2. Actuator

None: Pin plunger

GL: Hinge lever

GL13: Simulated roller lever

GL2: Hinge roller lever

3. Maximum operating force

None: 1.47N

-F: 0.49N

Note: These values are for pin plunger models.

4. Contact form

None: SPDT (1c)

-3: SPST-NO (1a)





5. Terminal

None: Solder terminal

T: #110 tab

D: PCB terminal

■ Variations

	Terminal	Contact Form	Rating	P/C
Pin plunger 	Solder terminals	1c	1.47N	D2SJ-5
		1a		D2SJ-5-3
		1c	0.49N	D2SJ-5-F
		1a		D2SJ-5-F-3
	Quick connect (#110)	1c	1.47N	D2SJ-5T
		1a		D2SJ-5-3
		1c	0.49N	D2SJ-5-FT
		1a		D2SJ-5-F-3T
	PCB terminals	1c	1.47N	D2SJ-5D
		1a		D2SJ-5-3D
		1c	0.49N	D2SJ-5-FD
		1a		D2SJ-5-F-3D
Hinge lever 	Solder terminals	1c	0.49N	D2SJ-5GL
		1a		D2SJ-5GL-3
		1c	0.16N	D2SJ-5GL-F
		1a		D2SJ-5GL-F-3
	Quick connect (#110)	1c	0.49N	D2SJ-5GLT
		1a		D2SJ-5GL-3
		1c	0.16N	D2SJ-5GL-FT
		1a		D2SJ-5GL-F-3T
	PCB terminals	1c	0.49N	D2SJ-5GLD
		1a		D2SJ-5GL-3D
		1c	0.16N	D2SJ-5GL-FD
		1a		D2SJ-5GL-F-3D
Simulated roller lever 	Solder terminals	1c	0.49N	D2SJ-5GL13
		1a		D2SJ-5GL13-3
		1c	0.16N	D2SJ-5GL13-F
		1a		D2SJ-5GL13-F-3
	Quick connect (#110)	1c	0.49N	D2SJ-5GL13T
		1a		D2SJ-5GL13-3
		1c	0.16N	D2SJ-5GL13-FT
		1a		D2SJ-5GL13-F-3T
	PCB terminals	1c	0.49N	D2SJ-5GL13D
		1a		D2SJ-5GL13-3D
		1c	0.16N	D2SJ-5GL13-FD
		1a		D2SJ-5GL13-F-3D
Hinge roller lever 	Solder terminals	1c	0.49N	D2SJ-5GL2
		1a		D2SJ-5GL2-3
		1c	0.16N	D2SJ-5GL2-F
		1a		D2SJ-5GL2-F-3
	Quick connect (#110)	1c	0.49N	D2SJ-5GL2T
		1a		D2SJ-5GL2-3
		1c	0.16N	D2SJ-5GL2-FT
		1a		D2SJ-5GL2-F-3T
	PCB terminals	1c	0.49N	D2SJ-5GL2D
		1a		D2SJ-5GL2-3D
		1c	0.16N	D2SJ-5GL2-FD
		1a		D2SJ-5GL2-F-3D

Specifications

■ Ratings

Model	Rated voltage	Item	Resistive load
D2SJ	125 VAC		5 A
	250 VAC		3 A

Note: The ratings values apply under the following test conditions:
 Ambient temperature: 20±2° C
 Ambient humidity: 65±5%
 Operating frequency: 30 operations/min

■ Characteristics

Operating speed	0.1 mm to 1 m/s (pin plunger models)
Operating frequency	Mechanical: 400 operations/min max. Electrical: 60 operations/min max.
Insulation resistance	100 MΩ min. (at 500 VDC)
Contact resistance (initial value)	OF 1.47 N {150 gf}: 30 mΩ max. OF 0.49 N {50 gf}: 50 mΩ max.
Dielectric strength (see note 2)	1,000 VAC (600 VAC for SS-01 models), 50/60 Hz for 1 min between terminals of the same polarities 1,500 VAC, 50/60 Hz for 1 min between current-carrying metal part and ground, and between each terminal and non-current-carrying metal part
Vibration resistance (see note 3)	Malfunction: 10 to 55 Hz, 1.5-mm double amplitude
Shock resistance (see note 4)	Destruction: OF 1.47 N {150 gf}:1,000 m/s ² {approx. 100G} max. 0.49 N {50 gf}:500 m/s ² {approx. 50G} max. Malfunction: OF 1.47 N {150 gf}:300 m/s ² {approx. 30G} max. 0.49 N {50 gf}:200 m/s ² {approx. 20G} max.
Durability (see note 5)	Mechanical: 1,000,000 operations min. Electrical: 50,000 operations min.
Degree of protection	IEC IP40
Degree of protection against electrical shock	Class I
Proof Tracking Index (PTI)	175
Ambient operating temperature	-25° C to 85° C (at ambient humidity of 60% max.) (with no icing or condensation)
Ambient operating humidity	85% max. (for 5° C to 35° C)
Weight	Approx. 1.6 g (pin plunger models)

Note:

- The data given above are initial values.
- The dielectric strength shown in the table indicates a value for models with a Separator.
- For the pin plunger models, the above values apply for use at both the free position and total travel position. For the lever models, they apply at the total travel position.
- Lever-type models: Total travel position (with a contact separation time of 1 ms max.)
- For testing conditions, contact your OMRON sales representative.

■ Approved Standards

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

UL1058

EN61058-1 (File No. 129246 for D2SJ, 125256 for SS-10, VDE approval)

Rated voltage	D2SJ
250 VAC	5 A

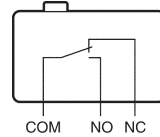
Testing conditions: 5E4 (50,000 operations); T85 (0° C to 85° C).

■ Contact Specifications

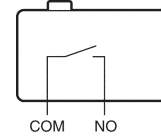
Item	D2SJ	
Contact	Specification	Rivet
	Material	Silver
	Gap (standard value)	0.5 mm
Inrush current	NC	20 A max.
	NO	10 A max.
Minimum applicable load (see note)		160 mA at 5 VDC

■ Contact Form

SPDT



SPST-NO



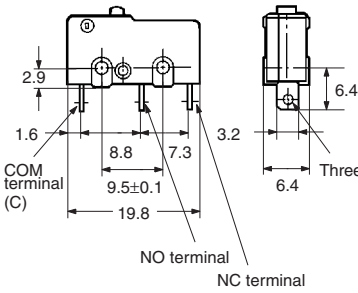
Dimensions

Note: All units are in millimeters unless otherwise indicated.

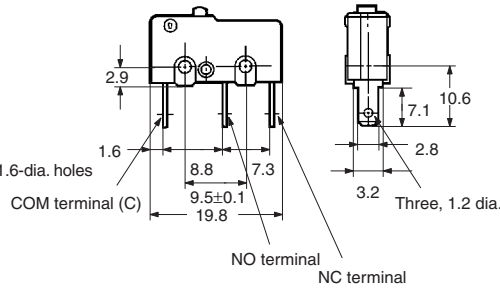
■ Terminals

Terminal plate thickness is 0.5 mm for all models.

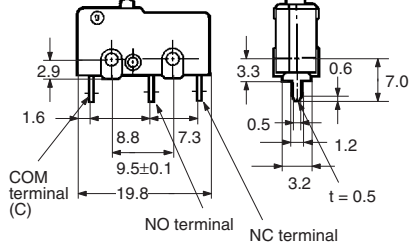
Solder Terminals



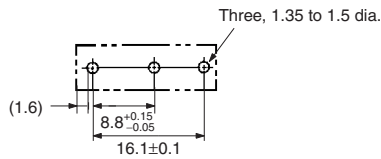
Quick-connect Terminals (#110)



PCB Terminals



PCB Mounting Dimensions (Reference)



■ Mounting Holes

Two, 2.4-dia. mounting holes or M2.3 screw holes

