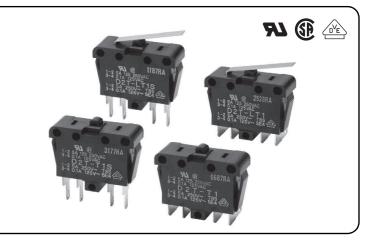


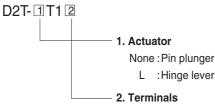
Door Switch Incorporated with Two Circuits for Power Loads and Micro Loads.

- Compact size, with two separate circuits for power and signals.
- Panel- or screw-mounted with ease.

RoHS Compliant



Model Number Legend



None : Solder terminals (Right-angled)

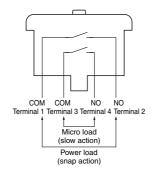
S :Solder terminals (Straight)

List of Models

Te Actuator	rminals Right-an	gled Straight
Pin plunger	D2T-T	D2T-T1S
Hinge lever	D2T-L	D2T-LT1S

Contact Form

DPST-NO model



Contact Specifications

Item Contact		Between terminals 1 and 2	Between terminals 3 and 4	
	Specification	Rivet	Plated	
Contact Material		Silver		
	Gap (standard value)	1 mm	1.4 mm	
Inrush current		60 A max.	-	
Minimum applicable load (reference value)		160 mA at 5 VDC	1 mA at 5 VDC	

Ratings

Terminal	Rated voltage	Resistive load	
Between terminals 1 and 2	250 VAC	5 A	
Between terminals 3 and 4	125 VAC	0.1 A	

Note. The above rating values apply under the following test conditions. (1) Ambient temperature: $20\pm2^{\circ}C$

(2) Ambient humidity: 65±5%

(3) Operating frequency: 30 operations/min

Approved Safety Standards

UL (UL1054)/CSA (CSA C22.2 No.55)

· · ·		
Rated voltage	Terminals 1 and 2	Terminals 3 and 4
125 VAC	5 A	0.1 A
250 VAC	5 A	-
200 1110	077	

VDE (EN61058-1)

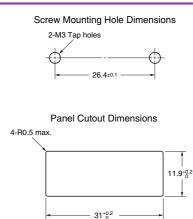
Rated voltage	Terminals 1 and 2	Terminals 3 and 4
125 VAC	-	0.1 A
250 VAC	5 A	-

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

Characteristics

Permissible operating speed		10 mm to 500 m/s (for pin plunger models)	
Permissible operating	Mechanical	120 operations/min	
frequency	Electrical	30 operations/min	
Insulation resistance		100 M Ω min. (at 500 VDC with insulation tester)	
Contact resistance (initial value)		Between terminals: 1 and 2: 50 m Ω max. Between terminals: 3 and 4: 100 m Ω max.	
	Between terminals of the same polarity	1,000 VAC 50/60 Hz for 1 min	
Dialactric strongth	Between current-carrying metal parts and ground	1,500 VAC 50/60 Hz for 1 min	
Dielectric strength	Between each terminals and non-current-carrying metal parts	1,500 VAC 50/60 Hz for 1 min	
	Between terminals of different polarity	1,500 VAC 50/60 Hz for 1 min	
Vibration resistance *1	Malfunction	10 to 55 Hz, 1.5 mm double amplitude	
.	Destruction	1,000 m/s ² {approx. 100G} max.	
Shock resistance	Malfunction *1	300 m/s ² {approx. 30G} max.	
Duurshillitu *0	Mechanical	100,000 operations min. (60 operations/mi	
Durability *2	Electrical	100,000 operations min. (30 operations/mi	
Degree of protection		IEC IP40	
Degree of protection against electric 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. 10g (pin plunger models)	

Mounting Holes (Unit: mm)



Panel thickness t=1.5 to 2

Note. The data given above are initial values

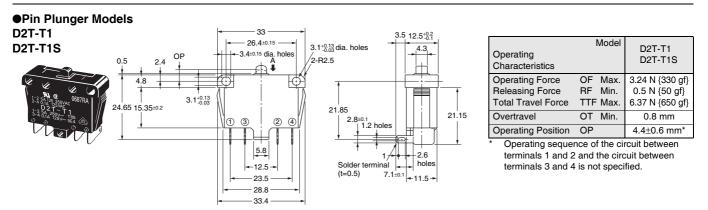
*1. The values are at Free Position and Total Travel Position values for pin plunger, and Total Travel

Position value for lever. Close or open circuit of the contact is 1 ms max.

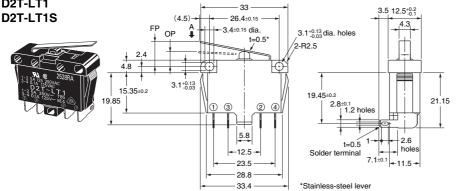
*2. For testing conditions, consult your OMRON sales representative.

Dimensions (Unit: mm) and Operating Characteristics

The illustrations and drawings are for right-angled terminals. Straight terminals are omitted.



•Hinge Lever Models D2T-LT1



Operating Characteristics	I	Model	D2T-LT1 D2T-LT1S
Operating Force Releasing Force Total Travel Force		Max. Min. Max.	1.47 N {150 gf} 0.20 N {20 gf} 2.45 N {250 gf}
Overtravel	OT	Min.	1.6 mm
Free Position Operating Position Releasing Position Total Travel Position	FP OP RP TTP	Max. Max. Max.	10.1 mm 6.9±1.3 mm 9.5 mm 3.6 mm

Note 1. Unless otherwise specified, a tolerance of ± 0.15 mm applies to all dimensions. Note 2. The operating characteristics are for operation in the A direction (\clubsuit)

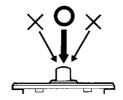
Precautions

★ Please refer to "Basic Switches Common Precautions" for correct use.

Correct Use

Mounting

 Apply operation force to the pin plunger in the direction it operates. Applying forces laterally or from an oblique direction may damage the pin plunger.



 Use M3 mounting screw with plane washers or spring washers to securely mount the Switch. Tighten the screws to a torque of 0.39 to 0.59 N·m {4 to 6 kgf·cm}.

Soldering

Terminal connectiion

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

Complete the soldering at the iron tip temperature not exceeding 350°C within 3 seconds, and do not apply any external force for 1 minute after soldering. Soldering at a excessively high temperature or soldering for more than 3 s may deteriorate the characteristics of the Switch.

Application examples provided in this document are for reference only. In actual applications, confirm equipment functions and safety before using the product.
Consult your OMRON representative before using the product under conditions which are not described in the manual or applying the product to nuclear control systems, railroad systems, aviation systems, vehicles, combustion systems, medical equipment, amusement machines, safety equipment, and other systems or equipment that may have a serious influence on lives and property if used improperly. Make sure that the ratings and performance characteristics of the product provide a margin of safety for the system or equipment, and be sure to provide the system or equipment with double safety mechanisms.

Note: Do not use this document to operate the Unit.

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