

A Switch with Crimp-type Connectors that Greatly Reduces Wiring Work

- Clip-on wiring via AMP crimp-type connectors.
- Snap-fit attachment for easy installation.
- Operation possible from either side to enable mounting in either direction.

RoHS Compliant



Ordering Information

Model	D2X-C
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Specifications

■ Ratings

30 VDC	0.1 A (resistive load)
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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 100 mm/s
Operating frequency	Mechanical: 60 operations/min max. Electrical: 30 operations/min max.
Insulation resistance	100 MΩ min. (at 250 VDC)
Contact resistance (initial value)	200 mΩ max.
Dielectric strength	250 VAC, 50/60 Hz for 1 min between terminals of same polarity 250 VAC, 50/60 Hz for 1 min between current-carrying metal part and ground
Vibration resistance	Malfunction: 10 to 55 Hz, 1.5-mm double amplitude
Shock resistance	Destruction: 500 m/s ² {approx. 50G} max. Malfunction: 300 m/s ² {approx. 30G} max.
Durability (see note 2)	Mechanical: 1,000,000 operations min. Electrical: 50,000 operations min.
Degree of protection	IEC IP00
Degree of protection against electric shock	Class I
Proof tracking index (PTI)	175
Ambient operating temperature	-10°C to 70°C (at ambient humidity of 60% max.) (with no icing or condensation)
Ambient operating humidity	45% to 85% (for 5°C to 35°C)
Weight	Approx. 1 g

- Note:**
1. The data given above are initial values.
 2. For testing conditions, consult your OMRON sales representative.

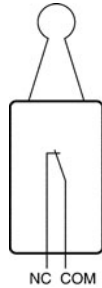
■ Contact Specifications

Contact	Specification	Slide
	Material	Gold plated
Minimum applicable load (see note)		1 mA at 5 VDC

Note: For more information on the minimum applicable load, refer to *Using Micro Loads* on page 4.

■ Contact Form

SPST-NC



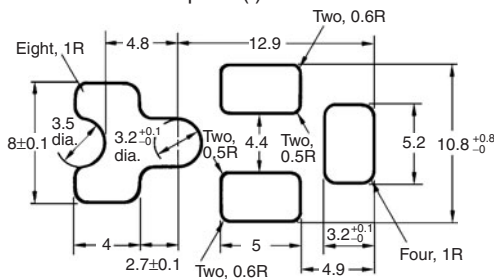
Dimensions

■ Mounting Holes

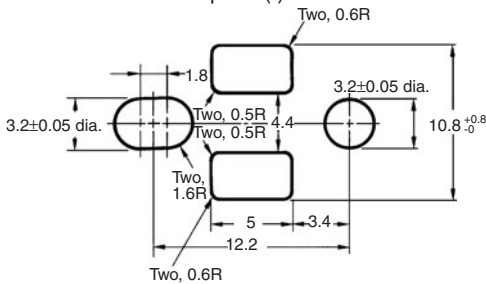
- Note:**
1. All units are in millimeters unless otherwise indicated.
 2. Allowable deviation from the center is ± 0.07 mm.
 3. Unless otherwise specified, a tolerance of ± 0.1 mm applies to all dimensions.

Make sure that the bur is placed to backside of Mounting Plate.

When thickness of the plate (t) is 1.6 mm.



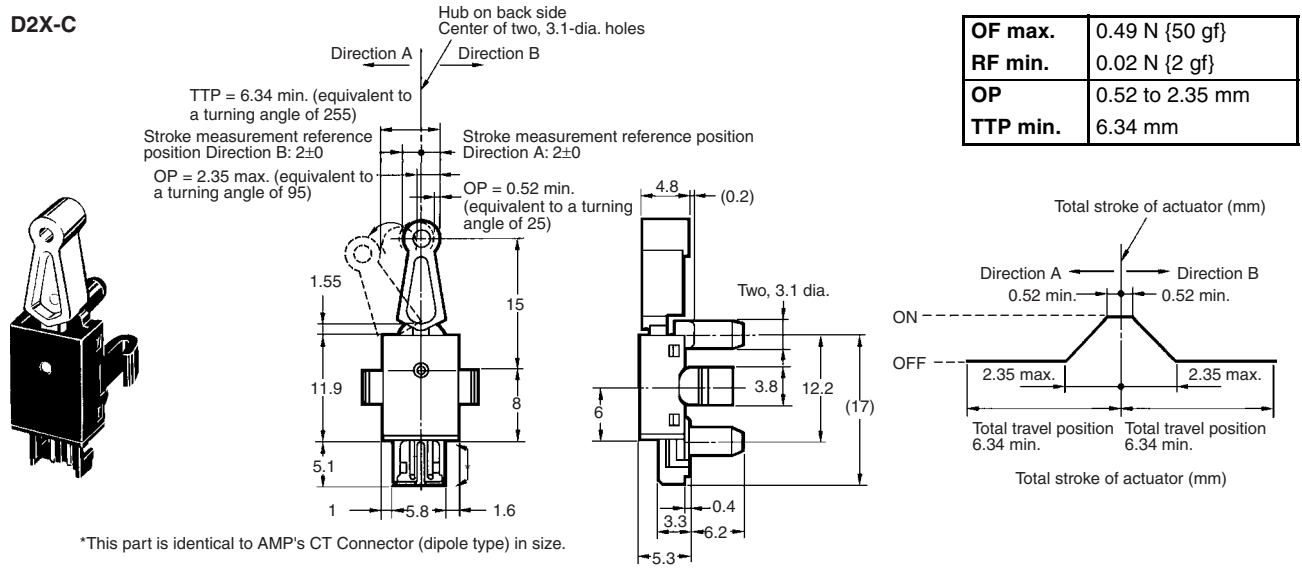
When thickness of the plate (t) is 1.2 mm.



■ Dimensions and Operating Characteristics

- Note:**
1. All units are in millimeters unless otherwise indicated.
 2. Unless specified, a tolerance of ± 0.4 mm applies to all dimensions.
 3. The operating characteristics are for cases where the actuator operates in the A (\leftarrow) direction or B (\rightarrow) direction.

D2X-C



Precautions

Refer to *General Information*.

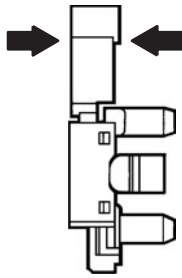
■ Correct Use

Operating Object

The operating object must fully press the lever when the operating object travels and must be perfectly separated from the lever when the operating object is in the free position. The operating object must not be pressed excessively to exceed the TTP, otherwise the D2X may be damaged. Be sure that the operating object imposes a proper load on the lever according to the motion of the lever.

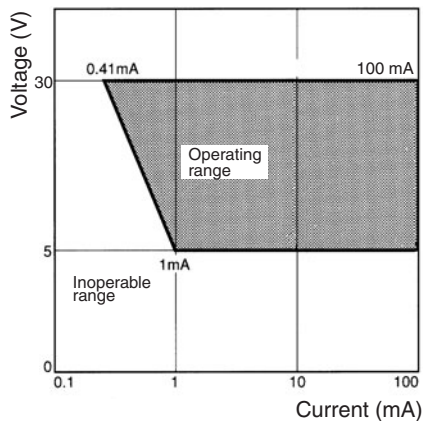
Lever Load

Do not impose loads in the following directions on the lever, otherwise the Switch may be damaged or malfunction.



Using Micro Loads

Be sure that the load is within the following range.



■ Wiring Connector

Use the following type CT connectors of Tyco Electronics AMP for wiring.

Press-fit connector: 173977-2
 Crimp-style connector housing: 179228-2
 Crimp-style connector contact: 179227-4

The above connectors are not sold by OMRON. Contact the following offices for these connectors:

Tyco Electronics/AMP

- Japan
Phone: +81-44-844-8111
- U.S.A.
Phone: +1-800-522-6752
- U.K.
Phone: +44-8706-080-208
- Hong Kong
Phone: +852-2738-8731

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.