

## Connector Termination Switch

## D2X

### 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.



### Ordering Information

Model	D2X-C
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### Specifications

#### ■ Ratings

30 VDC	0.1 A (resistive load)
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#### ■ Characteristics

Operating speed	0.1 to 100 mm/s
Operating frequency	Mechanical: 60 operations/min Electrical: 30 operations/min
Insulation resistance	100 MΩ min. (at 250 VDC)
Contact resistance	200 mΩ max. (initial value)
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	Malfunction: 300 m/s <sup>2</sup> {approx. 30G} max.
Life expectancy (see note)	Mechanical: 1,000,000 operations min. Electrical: 50,000 operations min.
Degree of protection	IP00
Degree of protection against electric shock	Class I
Proof tracking index (PTI)	175
Ambient temperature	Operating: -10°C to 70°C (at ambient humidity of 60% max.) (with no icing)
Ambient humidity	Operating: 45% to 85% (for 5°C to 35°C)
Weight	Approx. 1 g

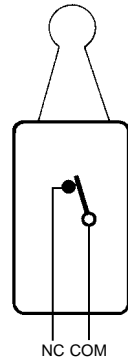
**Note:** Contact your OMRON sales representative for testing conditions.

#### ■ Contact Specifications

Contact	Specification	Slide
	Material	Silver plated
Minimum operating load		1 mA at 5 VDC

## ■ Contact Form

### SPST-NC



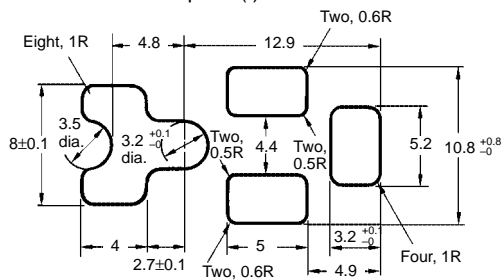
## Dimensions

### ■ Mounting Holes

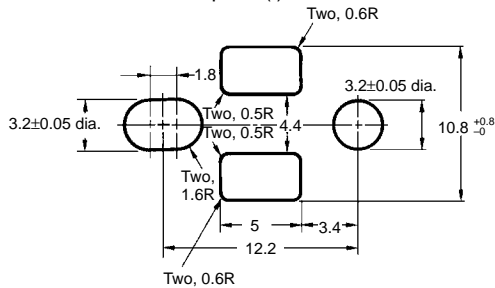
- Note:**
1. All units are in millimeters unless otherwise indicated.
  2. Allowable deviation from the center is  $\pm 0.07$  mm.
  3. Unless otherwise specified, a tolerance of  $\pm 0.1$  mm applies to all dimensions.

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

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



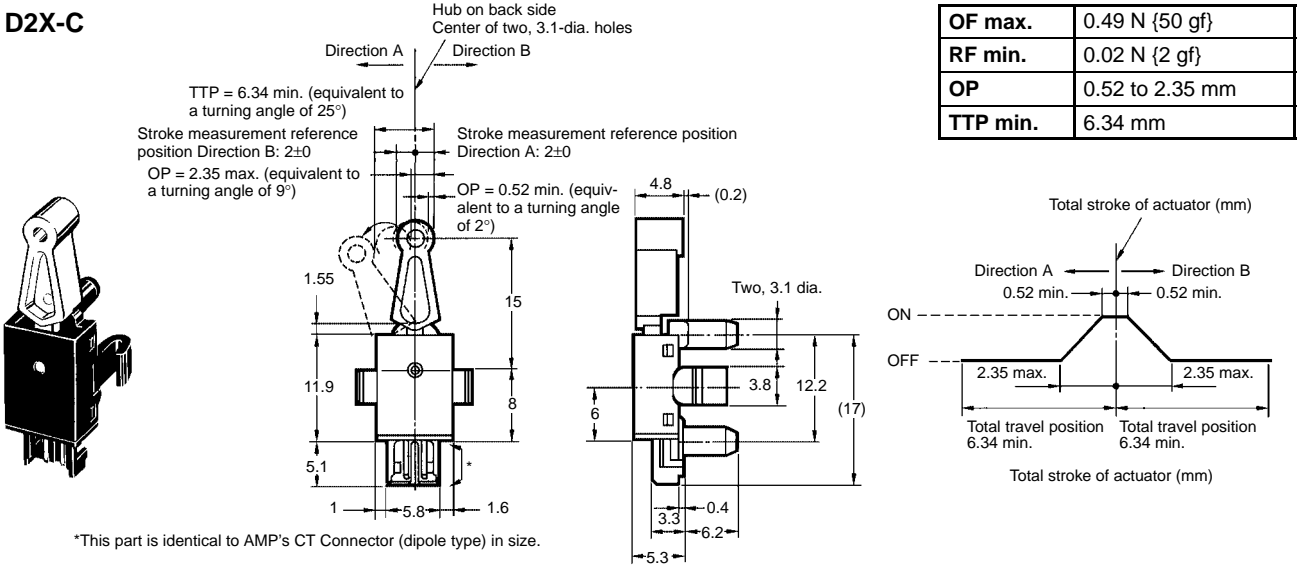
When thickness of the plate (t) is 1.2 mm.



### ■ Dimensions and Operating Characteristics

- Note:**
1. All units are in millimeters unless otherwise indicated.
  2. Unless specified, a tolerance of  $\pm 0.4$  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**



\*This part is identical to AMP's CT Connector (dipole type) in size.

## Precautions

Refer to pages 26 to 33 for common precautions.

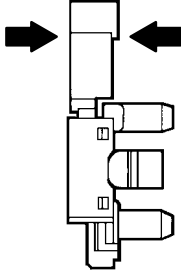
### ■ Correct Use

#### 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.

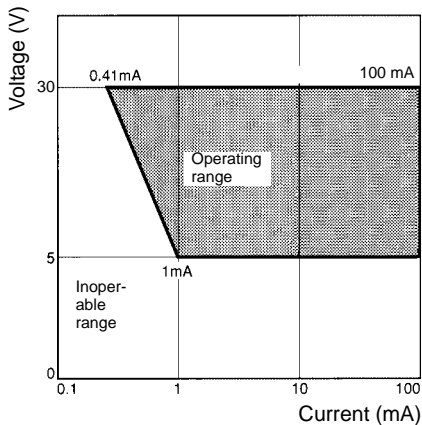
#### Lever Load

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.



Minimum operating load	1 mA at 5 VDC
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### ■ 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: 179227-1

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
- Great Britain  
Phone: 44-208-954-2356
- Hong Kong  
Phone: 852-2735-1628

**ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.**

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

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