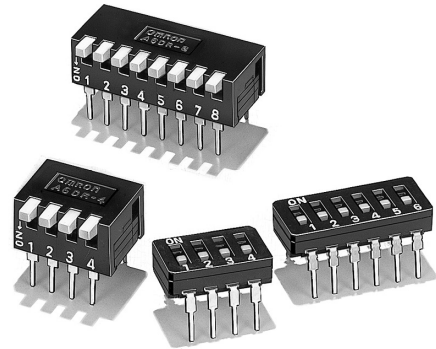


### High Contact Reliability with Sealed Structure

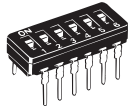
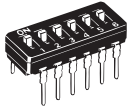
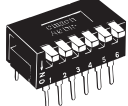
- Sealed structure equivalent to IP64 (IEC-60529) prevents flux penetration and provides high contact reliability even in dusty locations and locations where water is used.
- Smooth, sure switching action enables comfortable operation.
- Gold-plated twin contacts and a slide-type, self-cleaning mechanism ensure high reliability.



RoHS Compliant

### Ordering Information

#### ■List of Models

Type (actuator color)	Flat actuator (Orange)		Raised actuator (Orange)		Piano-actuator (Orange)	
	Quantity per tube		Quantity per tube		Quantity per Unit box	
No. of poles						
2	73	A6D-2100	73	A6D-2103	100	A6DR-2100
3	54	A6D-3100	54	A6D-3103	—	—
4	43	A6D-4100	43	A6D-4103	50	A6DR-4100
5	35	A6D-5100	35	A6D-5103	—	—
6	30	A6D-6100	30	A6D-6103	50	A6DR-6100
7	26	A6D-7100	26	A6D-7103	—	—
8	23	A6D-8100	23	A6D-8103	50	A6DR-8100
9	20	A6D-9100	20	A6D-9103	—	—
10	19	A6D-0100	19	A6D-0103	50	A6DR-0100

- Note: 1. The piano actuator model has a flat actuator inside.  
 2. Contact your OMRON sales representatives to request special markings or designations.  
 3. The quantity per tube applies only to A6Ds. A6DRs are packaged in a box.  
 4. Order in multiples of the package quantity.

### Specifications

#### ■Ratings/Characteristics

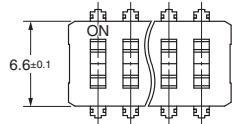
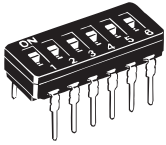
Rating	30 mA at 30 VDC 10 $\mu$ A (minimum current) at 3.5 VDC
Ambient operating temperature	-20 to 70°C at 60% max. (with no icing or condensation)
Ambient operating humidity	35% to 95% (at 5 to 35°C)
Insulation resistance	100 M $\Omega$ min. (at 250 VDC)
Contact resistance	100 m $\Omega$ max. (initial value)
Dielectric strength	500 VAC for 1 min between terminals
Vibration resistance	Malfunction: 10 to 55 Hz, 1.5-mm double amplitude
Shock resistance	Malfunction: 300 m/s <sup>2</sup> min.
Durability	Electrical: 2,000 operations min.
Operating force	0.29 to 4.9 N {30 to 500 gf}
Weight	Flat and raised actuators: 0.28 g (2 poles), 0.45 g (4 poles), 0.65 g (6 poles), 0.80 g (8 poles), 1.0 g (10 poles) Piano actuators: 0.53 g (2 poles), 0.8 g (4 poles), 1.2 g (6 poles), 1.7 g (8 poles), 2.2 g (10 poles)

# Dimensions

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

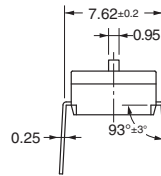
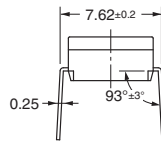
● Flat Actuator

A6D-□100



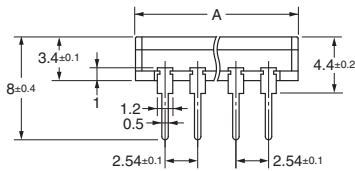
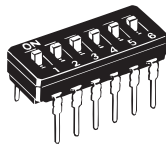
Flat Actuator

Raised Actuator



● Raised Actuator

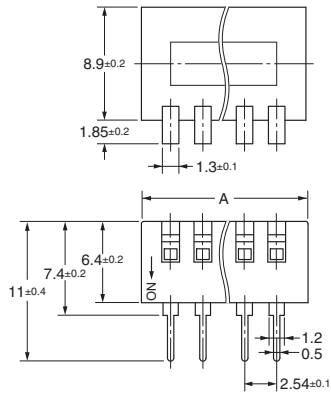
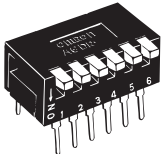
A6D-□103



No. of poles	Model		Dimension A±0.2
	Flat Actuator	Raised Actuator	
2	A6D-2100	A6D-2103	7.1
3	A6D-3100	A6D-3103	9.7
4	A6D-4100	A6D-4103	12.2
5	A6D-5100	A6D-5103	14.7
6	A6D-6100	A6D-6103	17.3
7	A6D-7100	A6D-7103	19.8
8	A6D-8100	A6D-8103	22.4
9	A6D-9100	A6D-9103	24.9
10	A6D-0100	A6D-0103	27.4

● Piano Actuator

A6DR-□100

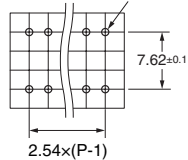


No. of poles	Model	Dimension A±0.2
2	A6DR-2100	7.1
4	A6DR-4100	12.2
6	A6DR-6100	17.3
8	A6DR-8100	22.4
10	A6DR-0100	27.4

**Dimension of PCB dimensions (Top View)**

(Single-sided PCB, t=1.2 to 1.6)

0.8 dia. (min.) holes \*



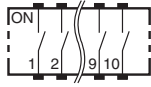
P: Number of Poles

\* 0.9 dia. for automatic insertion.

## Internal Connections

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### Contact Form (Top View)



## Precautions

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Be sure to read the Safety precautions common to all DIP Switches for correct use.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.  
To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.