OMRON

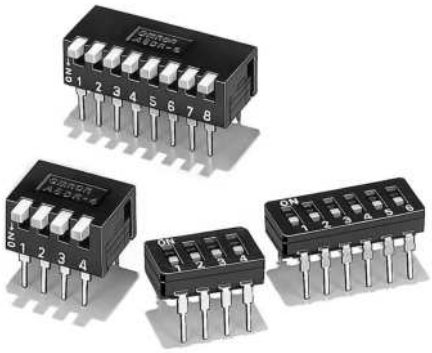
Slide/Piano DIP Switch

A6D/A6DR

Through-hole Mounting DIP Switch with High Environmental Resistance by Sealed Construction

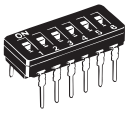
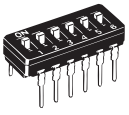
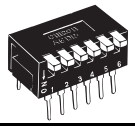
- Sealed structure equivalent to IP64 (IEC-60529) prevents flux penetration and provides high contact reliability even in dusty locations and locations where water is used.
- Smooth, sure switching action enables comfortable operation.
- Gold-plated twin contacts ensure high reliability.

RoHS Compliant



■List of Models

Tube packaging (Slide)/ Unit box (Piano)

Type	Slide				Piano	
	Flat actuator		Raised actuator			
No. of poles	Quantity per tube		Quantity per tube		Quantity per Unit box	
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. Order in multiples of the package quantity.
2. Contact your OMRON sales representatives to request special markings or designations.

■Ratings/Characteristics

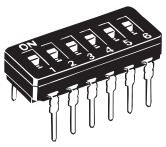
Rating (resistive load)		30 mA at 30 VDC 10 μA (minimum current) at 3.5 VDC
Ambient operating temperature		–20 to +70°C at 60% max. (with no icing or condensation)
Ambient operating humidity		35% to 95% (at +5 to +35°C)
Insulation resistance		100 MΩ min. (at 250 VDC with insulation tester)
Contact resistance (initial value)		100 mΩ max.
Dielectric strength	**Between terminals**	500 VAC for 1 min
Vibration resistance	**Malfunction**	10 to 55 Hz, 1.5-mm double amplitude
Shock resistance	**Malfunction**	300 m/s^2 min.
Durability	**Electrical**	2,000 operations min.
Washing		Possible
Degree of protection		Internally sealed (IEC IP64 equivalency)
Operating force		0.29 to 4.9 N {30 to 500 gf}
Weight		Slide: 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: 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)

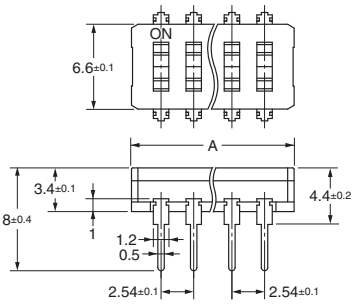
■Dimensions (Unit: mm)

Slide

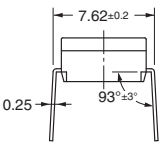
● **Flat Actuator**

A6D-□100

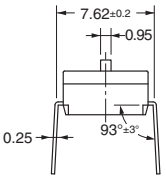




Flat Actuator

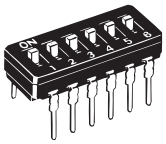


Raised Actuator



● **Raised Actuator**

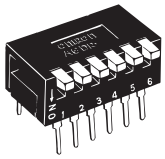
A6D-□103

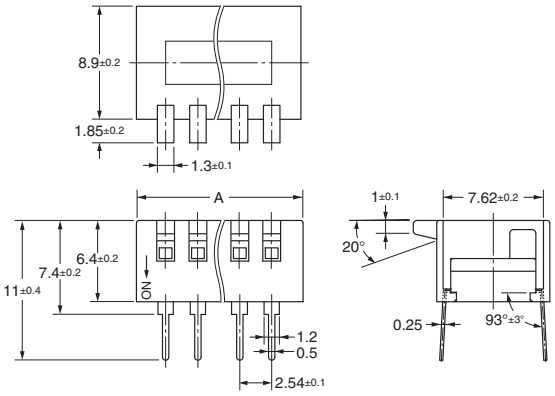


No. of poles	Model		Dimension A±0.2
	Flat Actuator	Raised Actuator	
2	A6D-2100	A6D-2103	7.1
3	A6D-3100	A6D-3103	9.7
4	A6D-4100	A6D-4103	12.2
5	A6D-5100	A6D-5103	14.7
6	A6D-6100	A6D-6103	17.3
7	A6D-7100	A6D-7103	19.8
8	A6D-8100	A6D-8103	22.4
9	A6D-9100	A6D-9103	24.9
10	A6D-0100	A6D-0103	27.4

Piano

A6DR-□100

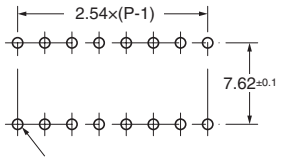




No. of poles	Model	Dimension A±0.2
2	A6DR-2100	7.1
4	A6DR-4100	12.2
6	A6DR-6100	17.3
8	A6DR-8100	22.4
10	A6DR-0100	27.4

PCB Dimensions (Reference)
(Top View)

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



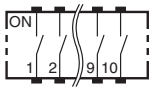
0.8 dia. (min.) holes * P: Number of Poles

* 0.9 dia. for automatic insertion.

Note: Unless otherwise specified, a tolerance of ±0.4 mm applies to all dimensions.

■Internal Connections

Contact Form (Top View)



■Precautions

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

- 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.

OMRON Corporation
Electronic and Mechanical Components Company **Contact: www.omron.com/ecb**
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