OMRON

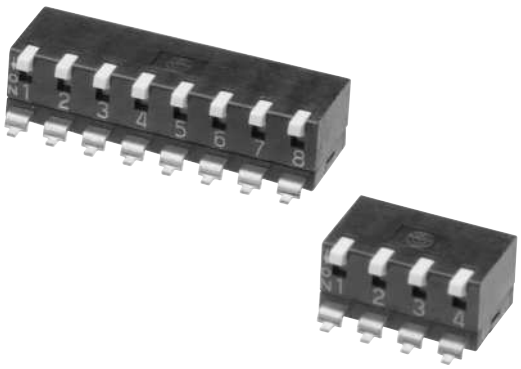
Piano DIP Switch

A6SR

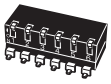
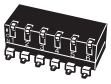
Standard Surface Mounting Piano DIP Switches

- Low-profile design with a height of only 5 mm and a 2.54-mm pitch for continuous mounting.
- Gold-plated twin contacts ensure high reliability.
- Embossed 100 pcs reel type is recommended for flexible demand.

RoHS Compliant



■List of Models

Type		Short actuator	Long actuator	Short actuator		Long actuator	
							
				Embossed taping			
No. of poles	Quantity per tube	Tube packaging		Standard (700 pcs)	100 pcs reel (100 pcs)	Standard (700 pcs)	100 pcs reel (100 pcs)
2	95	**A6SR-2101**	**A6SR-2104**	**A6SR-2101-P**	**A6SR-2101-R100**	**A6SR-2104-P**	**A6SR-2104-R100**
4	47	**A6SR-4101**	**A6SR-4104**	**A6SR-4101-P**	**A6SR-4101-R100**	**A6SR-4104-P**	**A6SR-4104-R100**
6	31	**A6SR-6101**	**A6SR-6104**	**A6SR-6101-P**	**A6SR-6101-R100**	**A6SR-6104-P**	**A6SR-6104-R100**
8	23	**A6SR-8101**	**A6SR-8104**	**A6SR-8101-P**	**A6SR-8101-R100**	**A6SR-8104-P**	**A6SR-8104-R100**
10	18	**A6SR-0101**	**A6SR-0104**	**A6SR-0101-P**	**A6SR-0101-R100**	**A6SR-0104-P**	**A6SR-0104-R100**

Note: Orders must be made in integral multiples of the quantities given for each tube. Switches are not sold individually.

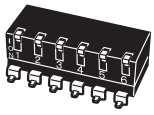
■Ratings/Characteristics

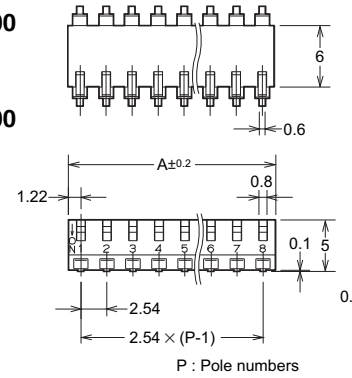
Rating (resistive load)		25 mA at 24 VDC 10 μA (minimum current) at 3.5 VDC
Ambient operating temperature		–20 to +70°C at 60% max. (with no icing or condensation)
Ambient operating humidity		35% to 95% (at +5 to +35°C)
Insulation resistance		100 MΩ min. (at 250 VDC with insulation tester)
Contact resistance (initial value)		200 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**	1,000 operations min.
Washing		Not possible
Degree of protection		IEC IP40
Operating force		0.29 to 7.8 N {30 to 795 gf}
Weight		0.24 g (2 poles), 0.48 g (4 poles), 0.73 g (6 poles), 0.97 g (8 poles), 1.22 g (10 poles)

■Dimensions (Unit: mm)

● **Short actuator / Long actuator**

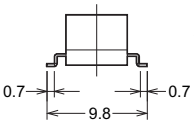
A6SR-□101
A6SR-□101-P
A6SR-□101-R100
A6SR-□104
A6SR-□104-P
A6SR-□104-R100



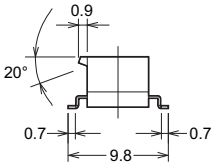


P : Pole numbers

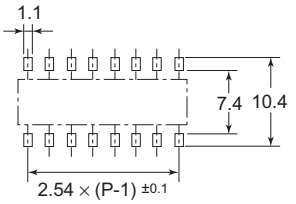
Short actuator



Long actuator



Dimensions of PCB Pad (Reference) (Top View)



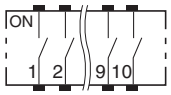
P: Number of poles

No. of poles	Model		Dimension A
	Short actuator	Long actuator	
2	A6SR-2101	A6SR-2104	4.98
4	A6SR-4101	A6SR-4104	10.06
6	A6SR-6101	A6SR-6104	15.14
8	A6SR-8101	A6SR-8104	20.22
10	A6SR-0101	A6SR-0104	25.30

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.

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