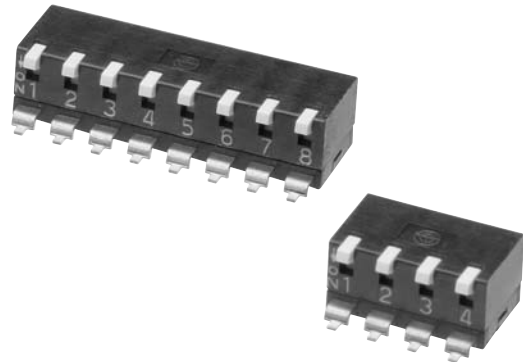


## Piano DIP Switch

## A6SR

### Low-profile Piano DIP Switches with a Standard Pitch of 2.54 mm for Continuous Mounting.

- Low-profile design with a height of only 5 mm and a 2.54-mm pitch for continuous mounting.
- Models available with 2, 4, 6, 8, or 10 poles.
- Gold-plated twin contacts with slide-type self-cleaning mechanism for high reliability.

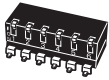

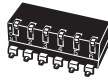



RoHS Compliant

#### Application

Mode setting of MPU  
Modem  
Controller of servo motor  
Coin changer  
Program controller

### List of Models

Packaging		Tube packaging		Minimum packing unit	Embossed taping packaging	
Type (color of actuator)		Short actuator (White)	Long actuator (White)		Short actuator (White)	Long actuator (White)
No. of poles	Minimum packing unit					
2	95	<b>A6SR-2101</b>	<b>A6SR-2104</b>	700	<b>A6SR-2101-P</b>	<b>A6SR-2104-P</b>
4	47	<b>A6SR-4101</b>	<b>A6SR-4104</b>		<b>A6SR-4101-P</b>	<b>A6SR-4104-P</b>
6	31	<b>A6SR-6101</b>	<b>A6SR-6104</b>		<b>A6SR-6101-P</b>	<b>A6SR-6104-P</b>
8	23	<b>A6SR-8101</b>	<b>A6SR-8104</b>		<b>A6SR-8101-P</b>	<b>A6SR-8104-P</b>
10	18	<b>A6SR-0101</b>	<b>A6SR-0104</b>		<b>A6SR-0101-P</b>	<b>A6SR-0104-P</b>

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

### Ratings/Characteristics

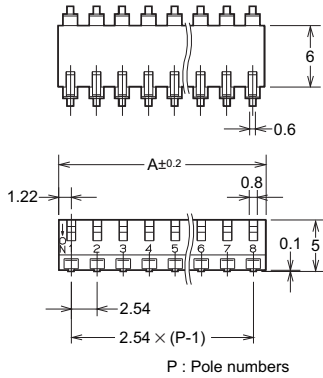
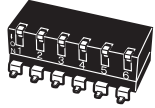
Rating (resistive load)	25 mA at 24 VDC 10 $\mu$ A (minimum current) at 3.5 VDC	
Ambient operating temperature	-20 to +70°C at 60% max. (with no icing or condensation)	
Ambient operating humidity	35% to 95% (at +5 to +35°C)	
Insulation resistance	100 M $\Omega$ min. (at 250 VDC with insulation tester)	
Contact resistance (initial value)	200 m $\Omega$ 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 <sup>2</sup> 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)

● SMT terminal

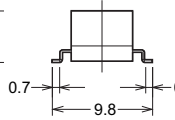
**Short actuator / Long actuator**

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

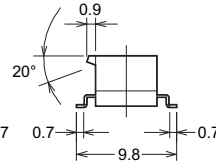


P : Pole numbers

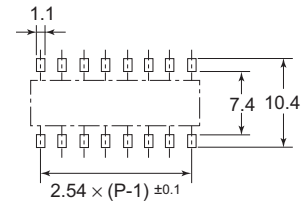
**Short actuator**



**Long actuator**



**Dimensions of PCB Pad (Top View)**



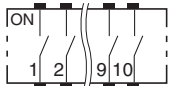
P: Number of poles

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.

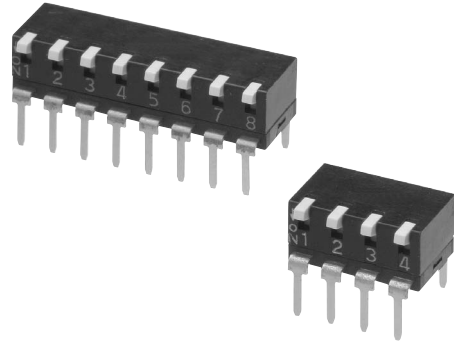
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Contact: [www.omron.com/ecb](http://www.omron.com/ecb)

Cat. No. A210-E1-02  
1014(0207)(O)

### Low-profile Piano DIP Switches with a Standard Pitch of 2.54 mm for Continuous Mounting.

- Low-profile design with a height of only 5 mm and a 2.54-mm pitch for continuous mounting.
- Models available with 2, 4, 6, 8, or 10 poles.
- Gold-plated twin contacts with slide-type self-cleaning mechanism for high reliability.

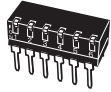
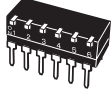


RoHS Compliant

#### Application

Mode setting of MPU  
Modem  
Controller of servo motor  
Coin changer  
Program controller

### List of Models

Type (color of actuator)		Short actuator (white)	Long actuator (white)
No. of poles	Quantity per tube		
2	95	<b>A6TR-2101</b>	<b>A6TR-2104</b>
4	47	<b>A6TR-4101</b>	<b>A6TR-4104</b>
6	31	<b>A6TR-6101</b>	<b>A6TR-6104</b>
8	23	<b>A6TR-8101</b>	<b>A6TR-8104</b>
10	18	<b>A6TR-0101</b>	<b>A6TR-0104</b>

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

### Ratings/Characteristics

<b>Ratings</b>		25 mA at 24 VDC, 10 $\mu$ A (minimum current) at 3.5 VDC
<b>Ambient operating temperature</b>		-20 to +70°C at 60% max. (with no icing or condensation)
<b>Ambient operating humidity</b>		35% to 95% (at +5 to +35°C)
<b>Insulation resistance</b>		100 M $\Omega$ min. (at 250 VDC)
<b>Contact resistance</b>		200 m $\Omega$ max. (initial value)
<b>Dielectric strength</b>	<b>Between terminals</b>	500 VAC for 1 min
<b>Vibration resistance</b>	<b>Malfunction</b>	10 to 55 Hz, 1.5-mm double amplitude
<b>Shock resistance</b>	<b>Malfunction</b>	300 m/s <sup>2</sup> min.
<b>Durability</b>	<b>Electrical</b>	1,000 operations min.
<b>Operating force</b>		0.29 to 7.8 N {30 to 795 gf}
<b>Weight</b>		0.25 g (2 poles), 0.50 g (4 poles), 0.76 g (6 poles), 1.02 g (8 poles), 1.28 g (10 poles)

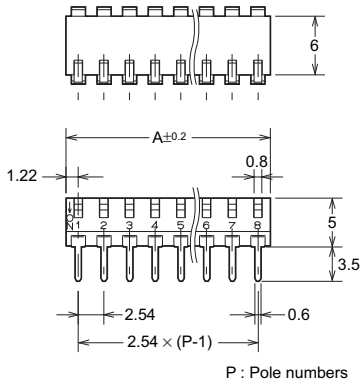
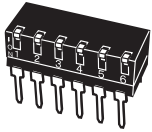
**Dimensions** (Unit: mm)

● Through hole terminal

Short actuator / Long actuator

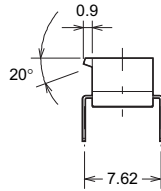
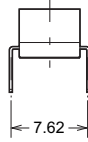
A6TR-□101

A6TR-□104

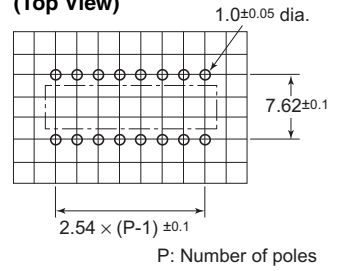


Short actuator

Long actuator



**PCB Dimensions (Top View)**

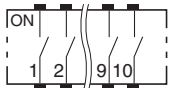


No. of poles	Model		Dimension A
	Short lever	Long lever	
2	A6TR-2101	A6TR-2104	4.98
4	A6TR-4101	A6TR-4104	10.06
6	A6TR-6101	A6TR-6104	15.14
8	A6TR-8101	A6TR-8104	20.22
10	A6TR-0101	A6TR-0104	25.30

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

**Internal Connections**

Contact Form (Top View)



**Precautions**

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Note: Do not use this document to operate the Unit.

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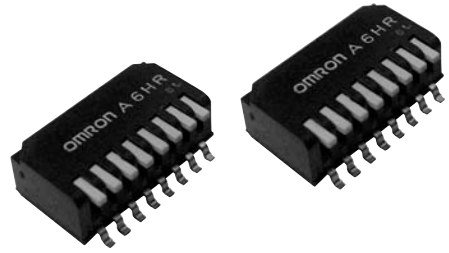
Cat. No. A209-E1-01  
0812(0207)(O)

## Piano DIP Switch

## A6HR

### Piano type models available in Half-pitch.

- Gold-plated twin contacts will ensure high reliability.
- Embossed tapping models available for automatic mounting. (small reel also available)
- Temperature-resistant resin allows at peak reflow temperatures of 260 °C.



RoHS Compliant

### ■ List of Models

Type and color of actuator	Standard (white)					
	Tube packaging	Embossed tapping				
		Standard reel		Small reel		
No. of poles	Quantity per tube		Quantity per reel		Quantity per reel	
2	125	<b>A6HR-2104</b>	1,000	<b>A6HR-2104-P</b>	500	<b>A6HR-2104-PM</b>
4	70	<b>A6HR-4104</b>		<b>A6HR-4104-P</b>		<b>A6HR-4104-PM</b>
6	50	<b>A6HR-6104</b>		<b>A6HR-6104-P</b>		<b>A6HR-6104-PM</b>
8	40	<b>A6HR-8104</b>		<b>A6HR-8104-P</b>		<b>A6HR-8104-PM</b>
10	30	<b>A6HR-0104</b>		<b>A6HR-0104-P</b>		<b>A6HR-0104-PM</b>

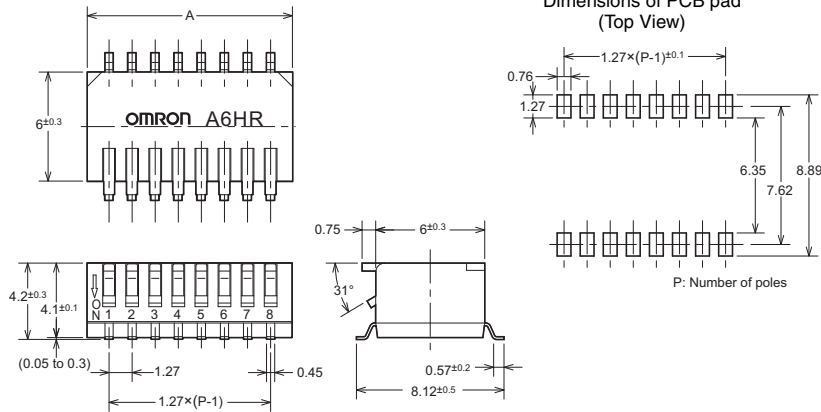
Note: Order in multiples of the package quantity.

### ■ Ratings/Characteristics

<b>Rating (resistive load)</b>	25 mA at 24 VDC 10 μA (minimum current) at 3.5 VDC	
<b>Ambient operating temperature</b>	-30 to +85 °C at 60% max. (with no icing or condensation)	
<b>Ambient operating humidity</b>	35% to 95% (at +5 to +35 °C)	
<b>Insulation resistance</b>	100 MΩ min. (at 100 VDC with insulation tester)	
<b>Contact resistance (initial value)</b>	200 mΩ max.	
<b>Dielectric strength</b>	<b>Between terminals</b>	300 VAC for 1 min
<b>Vibration resistance</b>	<b>Malfunction</b>	10 to 55 Hz, 1.5-mm double amplitude
<b>Shock resistance</b>	<b>Malfunction</b>	490 m/s <sup>2</sup> min.
<b>Durability</b>	<b>Electrical</b>	1,000 operations min.
<b>Washing</b>	Not possible	
<b>Degree of protection</b>	IEC IP40	
<b>Operating force (OFF to ON)</b>	0.29 to 4.9 N {30 to 500 gf} (2.45N {250 gf} max. ON to OFF)	
<b>Weight</b>	0.13g (2 poles) 0.22g (4 poles) 0.3g (6 poles) 0.4g (8 poles) 0.48g (10 poles)	

■ Dimensions (Unit: mm)

Standard  
 A6HR-□104  
 A6HR-□104-P  
 A6HR-□104-PM

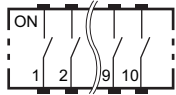


No. of poles	Models	A
2	A6HR-2104	3.67
4	A6HR-4104	6.21
6	A6HR-6104	8.75
8	A6HR-8104	11.29
10	A6HR-0104	13.83

**Note:** Unless otherwise specified, a tolerance of  $\pm 0.4$  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.

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**Note: Do not use this document to operate the Unit.**

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Cat. No. A191-E1-05  
 1014(0207)(O)