

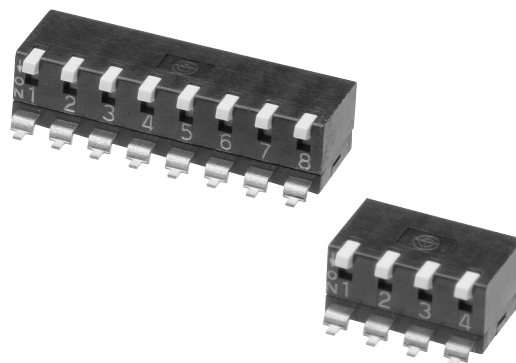
## Piano DIP Switch

## 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                                                                       |                        |
|--------------|-------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------|------------------------|
|              |                   |  |  |  |                        |  |                        |
| No. of poles | Quantity per tube | Tube packaging                                                                    |                                                                                   | Embossed taping                                                                   |                        |                                                                                     |                        |
|              |                   |                                                                                   |                                                                                   | 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<br>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)

### ● Short actuator / Long actuator

A6SR-□101

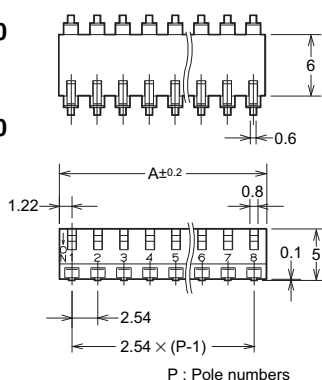
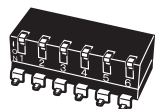
A6SR-□101-P

A6SR-□101-R100

A6SR-□104

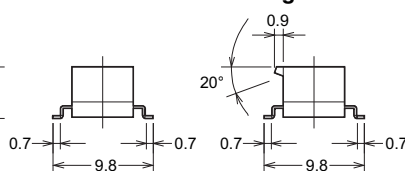
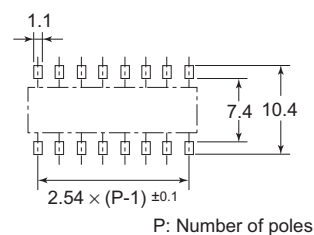
A6SR-□104-P

A6SR-□104-R100



Short actuator

Long actuator

Dimensions of PCB Pad (Reference)  
(Top View)

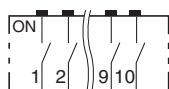
P: Number of poles

| 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  $\pm 0.4$  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.

- 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

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Cat. No. A210-E1-04  
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### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

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