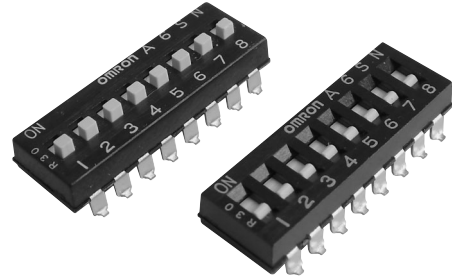


## Slide DIP Switch

## A6SN

### Surface-Mounting Slide DIP Switches with High Contact Reliability

- Knife-edge structure with high contact pressure mechanism assures high reliability.
- Washable , without seal tape available.
- With seal tape enables adsorption on auto mounting machine.
- Models with from 1 to 10 poles meet wide needs.
- Embossed 100 pcs reel type is recommended for flexible demand.



RoHS Compliant

### ■ List of Models

#### Tube Packaging

| Type         |                   | Flat actuator                                                                     | Raised actuator                                                                   |
|--------------|-------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|              |                   |  |  |
| No. of poles | Quantity per tube |                                                                                   |                                                                                   |
| 1            | 100               | A6SN-1101                                                                         | A6SN-1104                                                                         |
| 2            | 60                | A6SN-2101                                                                         | A6SN-2104                                                                         |
| 3            | 45                | A6SN-3101                                                                         | A6SN-3104                                                                         |
| 4            | 35                | A6SN-4101                                                                         | A6SN-4104                                                                         |
| 5            | 30                | A6SN-5101                                                                         | A6SN-5104                                                                         |
| 6            | 25                | A6SN-6101                                                                         | A6SN-6104                                                                         |
| 7            | 20                | A6SN-7101                                                                         | A6SN-7104                                                                         |
| 8            | 20                | A6SN-8101                                                                         | A6SN-8104                                                                         |
| 9            | 15                | A6SN-9101                                                                         | A6SN-9104                                                                         |
| 10           | 15                | A6SN-0101                                                                         | A6SN-0104                                                                         |

#### Embossed Taping \*

| Type         |                   | Flat actuator                                                                       |                                                                                      | Raised actuator   |                                                                                       |
|--------------|-------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------|
|              |                   | Standard                                                                            | With seal tape                                                                       |                   |                                                                                       |
| No. of poles | Quantity per tube |  |  | Quantity per tube |  |
|              |                   |                                                                                     |                                                                                      |                   |                                                                                       |
| 2            | 750               | A6SN-2101-P                                                                         | A6SN-2102-P                                                                          | 700               | A6SN-2104-P                                                                           |
| 3            |                   | A6SN-3101-P                                                                         | A6SN-3102-P                                                                          |                   | A6SN-3104-P                                                                           |
| 4            |                   | A6SN-4101-P                                                                         | A6SN-4102-P                                                                          |                   | A6SN-4104-P                                                                           |
| 5            |                   | A6SN-5101-P                                                                         | A6SN-5102-P                                                                          |                   | A6SN-5104-P                                                                           |
| 6            |                   | A6SN-6101-P                                                                         | A6SN-6102-P                                                                          |                   | A6SN-6104-P                                                                           |
| 7            |                   | A6SN-7101-P                                                                         | A6SN-7102-P                                                                          |                   | A6SN-7104-P                                                                           |
| 8            |                   | A6SN-8101-P                                                                         | A6SN-8102-P                                                                          |                   | A6SN-8104-P                                                                           |
| 9            |                   | A6SN-9101-P                                                                         | A6SN-9102-P                                                                          |                   | A6SN-9104-P                                                                           |
| 10           |                   | A6SN-0101-P                                                                         | A6SN-0102-P                                                                          |                   | A6SN-0104-P                                                                           |

**Note:** 1. Order in multiples of the package quantity.

## Embossed Taping (100 pcs reel)

| Type | Flat actuator                                                                     |                   |                                                                                   |                   | Raised actuator                                                                     |                   |
|------|-----------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------|-------------------|
|      | Standard                                                                          |                   | With seal tape                                                                    |                   |                                                                                     |                   |
|      |  |                   |  |                   |  |                   |
|      | No. of poles                                                                      | Quantity per tube |                                                                                   | Quantity per tube |                                                                                     | Quantity per tube |
| 2    | 100                                                                               | A6SN-2101-R100    | 100                                                                               | A6SN-2102-R100    | 100                                                                                 | A6SN-2104-R100    |
| 3    |                                                                                   | A6SN-3101-R100    |                                                                                   | A6SN-3102-R100    |                                                                                     | A6SN-3104-R100    |
| 4    |                                                                                   | A6SN-4101-R100    |                                                                                   | A6SN-4102-R100    |                                                                                     | A6SN-4104-R100    |
| 5    |                                                                                   | A6SN-5101-R100    |                                                                                   | A6SN-5102-R100    |                                                                                     | A6SN-5104-R100    |
| 6    |                                                                                   | A6SN-6101-R100    |                                                                                   | A6SN-6102-R100    |                                                                                     | A6SN-6104-R100    |
| 7    |                                                                                   | A6SN-7101-R100    |                                                                                   | A6SN-7102-R100    |                                                                                     | A6SN-7104-R100    |
| 8    |                                                                                   | A6SN-8101-R100    |                                                                                   | A6SN-8102-R100    |                                                                                     | A6SN-8104-R100    |
| 9    |                                                                                   | A6SN-9101-R100    |                                                                                   | A6SN-9102-R100    |                                                                                     | A6SN-9104-R100    |
| 10   |                                                                                   | A6SN-0101-R100    |                                                                                   | A6SN-0102-R100    |                                                                                     | A6SN-0104-R100    |

## ■ Ratings/Characteristics

|                                    |                   |                                                                                            |
|------------------------------------|-------------------|--------------------------------------------------------------------------------------------|
| Rating (resistive load)            |                   | 25 mA at 24 VDC<br>10 $\mu$ A (minimum current) at 3.5 VDC                                 |
| Ambient operating temperature      |                   | -30 to +85 °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 100 VDC with insulation tester)                                    |
| Contact resistance (initial value) |                   | 200 m $\Omega$ max.                                                                        |
| Dielectric strength                | Between terminals | 300 VAC for 1 min                                                                          |
| Vibration resistance               | Malfunction       | 10 to 55 Hz, 1.5-mm double amplitude                                                       |
| Shock resistance                   | Malfunction       | 490 m/s <sup>2</sup> min.                                                                  |
| Durability                         | Electrical        | 1,000 operations min.                                                                      |
| Washing                            |                   | Possible                                                                                   |
| Degree of protection               |                   | IEC IP40                                                                                   |
| Operating force                    |                   | 0.98 to 7.9 N {100 to 806 gf}                                                              |
| Weight                             |                   | 0.3 g (2 poles)   0.55 g (4 poles)   0.8 g (6 poles)   1.05 g (8 poles)   1.3 g (10 poles) |

## ■ Dimensions (Unit: mm)

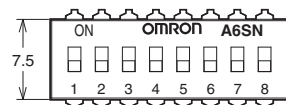
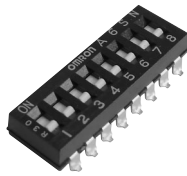
### ● Flat actuator

Standard

A6SN-□101

A6SN-□101-P

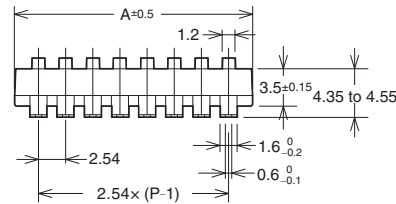
A6SN-□101-R100



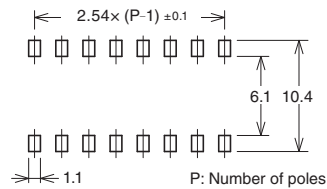
With seal tape

A6SN-□102-P

A6SN-□102-R100



Dimensions of PCB pad (Reference)  
(Top View)

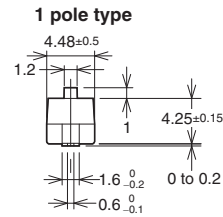


### ● Raised actuator

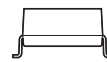
A6SN-□104

A6SN-□104-P

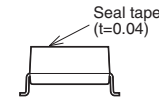
A6SN-□104-R100



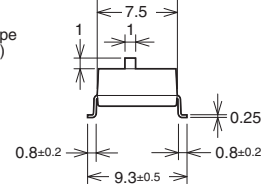
Flat actuator  
Standard



Flat actuator  
With seal tape



Raised actuator

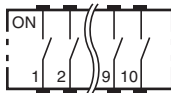


| No. of poles | Flat actuator |                 | Embossed taping |                |                 | Embossed taping (100 pcs reel) |                |                 | A    |
|--------------|---------------|-----------------|-----------------|----------------|-----------------|--------------------------------|----------------|-----------------|------|
|              | Standard      | Raised actuator | Flat actuator   |                | Raised actuator | Flat actuator                  |                | Raised actuator |      |
|              |               |                 | Standard        | With seal tape |                 | Standard                       | With seal tape |                 |      |
| 1            | A6SN-1101     | A6SN-1104       | ---             | ---            | ---             | ---                            | ---            | ---             | 4.48 |
| 2            | A6SN-2101     | A6SN-2104       | A6SN-2101-P     | A6SN-2102-P    | A6SN-2104-P     | A6SN-2101-R100                 | A6SN-2102-R100 | A6SN-2104-R100  | 7.0  |
| 3            | A6SN-3101     | A6SN-3104       | A6SN-3101-P     | A6SN-3102-P    | A6SN-3104-P     | A6SN-3101-R100                 | A6SN-3102-R100 | A6SN-3104-R100  | 9.6  |
| 4            | A6SN-4101     | A6SN-4104       | A6SN-4101-P     | A6SN-4102-P    | A6SN-4104-P     | A6SN-4101-R100                 | A6SN-4102-R100 | A6SN-4104-R100  | 12.1 |
| 5            | A6SN-5101     | A6SN-5104       | A6SN-5101-P     | A6SN-5102-P    | A6SN-5104-P     | A6SN-5101-R100                 | A6SN-5102-R100 | A6SN-5104-R100  | 14.6 |
| 6            | A6SN-6101     | A6SN-6104       | A6SN-6101-P     | A6SN-6102-P    | A6SN-6104-P     | A6SN-6101-R100                 | A6SN-6102-R100 | A6SN-6104-R100  | 17.2 |
| 7            | A6SN-7101     | A6SN-7104       | A6SN-7101-P     | A6SN-7102-P    | A6SN-7104-P     | A6SN-7101-R100                 | A6SN-7102-R100 | A6SN-7104-R100  | 19.7 |
| 8            | A6SN-8101     | A6SN-8104       | A6SN-8101-P     | A6SN-8102-P    | A6SN-8104-P     | A6SN-8101-R100                 | A6SN-8102-R100 | A6SN-8104-R100  | 22.3 |
| 9            | A6SN-9101     | A6SN-9104       | A6SN-9101-P     | A6SN-9102-P    | A6SN-9104-P     | A6SN-9101-R100                 | A6SN-9102-R100 | A6SN-9104-R100  | 24.8 |
| 10           | A6SN-0101     | A6SN-0104       | A6SN-0101-P     | A6SN-0102-P    | A6SN-0104-P     | A6SN-0101-R100                 | A6SN-0102-R100 | A6SN-0104-R100  | 27.3 |

**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. A193-E1-06  
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