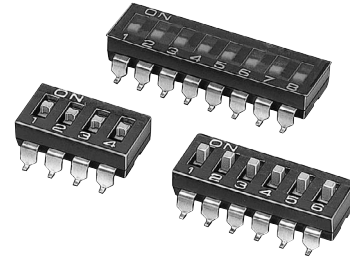


### Previous (A6S) Model Upgraded to Surface-mounting Type with Increased Solder Heat Resistance

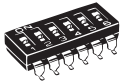
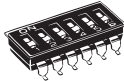
- Designed to enable replacement of previous (A6S) model, featuring the same dimensions and improved solder heat resistance (reflow peak solder temperature: 260°C).
- Gold-plated twin contacts and a slide-type, self-cleaning mechanism ensure high reliability.
- Washable models with seal tape available.
- Embossed tapping models available for automatic mounting. (Small reel also available)



RoHS Compliant

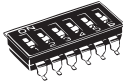
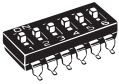
### ■List of Models

#### ● Models in Tube Packages

| Type and actuator color |                   | Flat actuator (White)                                                              |                                                                                     | Raised actuator (White) |
|-------------------------|-------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------|
|                         |                   | Standard                                                                           | With seal tape                                                                      |                         |
|                         |                   |  |  |                         |
| No. of poles            | Quantity per tube |                                                                                    |                                                                                     |                         |
| 1                       | 130               | A6S-1101-H                                                                         | A6S-1102-H                                                                          | A6S-1104-H              |
| 2                       | 76                | A6S-2101-H                                                                         | A6S-2102-H                                                                          | A6S-2104-H              |
| 3                       | 55                | A6S-3101-H                                                                         | A6S-3102-H                                                                          | A6S-3104-H              |
| 4                       | 42                | A6S-4101-H                                                                         | A6S-4102-H                                                                          | A6S-4104-H              |
| 5                       | 35                | A6S-5101-H                                                                         | A6S-5102-H                                                                          | A6S-5104-H              |
| 6                       | 28                | A6S-6101-H                                                                         | A6S-6102-H                                                                          | A6S-6104-H              |
| 7                       | 25                | A6S-7101-H                                                                         | A6S-7102-H                                                                          | A6S-7104-H              |
| 8                       | 22                | A6S-8101-H                                                                         | A6S-8102-H                                                                          | A6S-8104-H              |
| 9                       | 20                | A6S-9101-H                                                                         | A6S-9102-H                                                                          | A6S-9104-H              |
| 10                      | 18                | A6S-0101-H                                                                         | A6S-0102-H                                                                          | A6S-0104-H              |

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

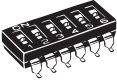
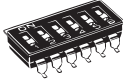
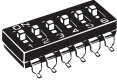
### ● Models in Embossed Taping Packages (Standard reel)

| Type and actuator color |                   | Flat actuator (White)                                                             |                                                                                   | Raised actuator (White) |                                                                                     |
|-------------------------|-------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------|
|                         |                   | Standard                                                                          | With seal tape                                                                    |                         |                                                                                     |
| No. of poles            | Quantity per reel |  |  | Quantity per reel       |  |
| 1                       | 800               | A6S-1101-PH                                                                       | A6S-1102-PH                                                                       | 800                     | A6S-1104-PH                                                                         |
| 2                       | 900               | A6S-2101-PH                                                                       | A6S-2102-PH                                                                       | 700                     | A6S-2104-PH                                                                         |
| 3                       |                   | A6S-3101-PH                                                                       | A6S-3102-PH                                                                       | ---                     | --- (See note 2.)                                                                   |
| 4                       |                   | A6S-4101-PH                                                                       | A6S-4102-PH                                                                       | 700                     | A6S-4104-PH                                                                         |
| 5                       |                   | --- (See note 2.)                                                                 | A6S-5102-PH                                                                       | 800                     | A6S-5104-PH                                                                         |
| 6                       |                   | --- (See note 2.)                                                                 | A6S-6102-PH                                                                       | 700                     | A6S-6104-PH                                                                         |
| 7                       |                   | A6S-7101-PH                                                                       | A6S-7102-PH                                                                       | ---                     | --- (See note 2.)                                                                   |
| 8                       |                   | A6S-8101-PH                                                                       | A6S-8102-PH                                                                       | 700                     | A6S-8104-PH                                                                         |
| 9                       |                   | --- (See note 2.)                                                                 | A6S-9102-PH                                                                       | ---                     | --- (See note 2.)                                                                   |
| 10                      |                   | --- (See note 2.)                                                                 | A6S-0102-PH                                                                       | ---                     | --- (See note 2.)                                                                   |

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

2. Models with a different number of poles than those listed here can also be ordered. For details, consult your OMRON sales representative.

### ● Models in Embossed Taping Packages (Small reel)

| Type and actuator color |                   | Flat actuator (White)                                                             |                                                                                   | Raised actuator (White)                                                             |
|-------------------------|-------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                         |                   | Standard                                                                          | With seal tape                                                                    |                                                                                     |
| No. of poles            | Quantity per reel |  |  |  |
| 2                       | 400               | --- (See note 2.)                                                                 | A6S-2102-PMH                                                                      | --- (See note 2.)                                                                   |
| 3                       |                   | A6S-3101-PMH                                                                      | --- (See note 2.)                                                                 | --- (See note 2.)                                                                   |
| 4                       |                   | A6S-4101-PMH                                                                      | A6S-4102-PMH                                                                      | A6S-4104-PMH                                                                        |
| 6                       |                   | A6S-6101-PMH                                                                      | A6S-6102-PMH                                                                      | A6S-6104-PMH                                                                        |
| 8                       |                   | A6S-8101-PMH                                                                      | A6S-8102-PMH                                                                      | A6S-8104-PMH                                                                        |
| 10                      |                   | A6S-0101-PMH                                                                      | A6S-0102-PMH                                                                      | A6S-0104-PMH                                                                        |

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

2. Models with a different number of poles than those listed here can also be ordered. For details, consult your OMRON sales representative.

### ■ Ratings/Characteristics

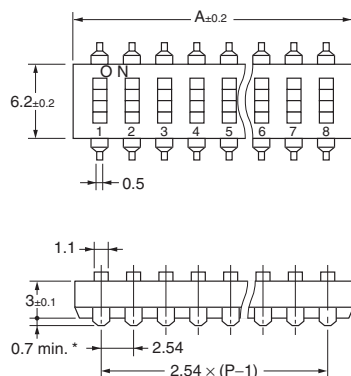
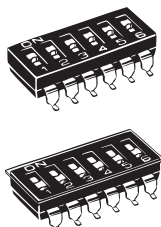
|                               |                   |                                                                                                   |
|-------------------------------|-------------------|---------------------------------------------------------------------------------------------------|
| Ratings                       |                   | 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)                                                                  |
| Contact resistance            |                   | 200 m $\Omega$ max. (initial value)                                                               |
| 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.                                                                             |
| Operating force               |                   | 0.29 to 9.8 N {30 to 1,000 gf}                                                                    |
| Weight                        |                   | 0.25 g (2 poles)<br>0.41 g (4 poles)<br>0.58 g (6 poles)<br>0.73 g (8 poles)<br>0.87 g (10 poles) |

## ■Dimensions (Unit: mm)

### ● Flat Actuator

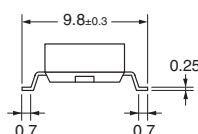
#### Standard/With Seal Tape

A6S-□101-H  
A6S-□101-PH  
A6S-□101-PMH  
A6S-□102-H  
A6S-□102-PH  
A6S-□102-PMH

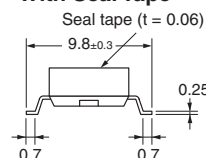


\* 1 pole type is 0 to 0.15 mm

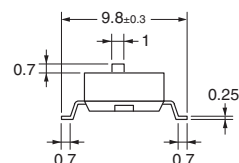
#### Flat Actuator Standard



#### Flat Actuator With Seal Tape

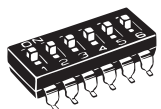


#### Raised Actuator

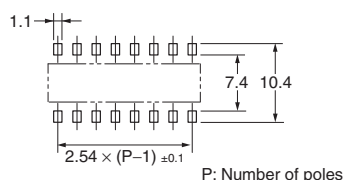


### ● Raised Actuator

A6S-□104-H  
A6S-□104-PH  
A6S-□104-PMH



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

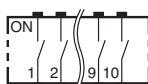


| No. of poles | Model         |                |                 | Dimension A |
|--------------|---------------|----------------|-----------------|-------------|
|              | Flat Actuator |                | Raised Actuator |             |
|              | Standard      | With Seal Tape |                 |             |
| 1            | A6S-1101-H    | A6S-1102-H     | A6S-1104-H      | 3.48        |
| 2            | A6S-2101-H    | A6S-2102-H     | A6S-2104-H      | 6.02        |
| 3            | A6S-3101-H    | A6S-3102-H     | A6S-3104-H      | 8.56        |
| 4            | A6S-4101-H    | A6S-4102-H     | A6S-4104-H      | 11.10       |
| 5            | A6S-5101-H    | A6S-5102-H     | A6S-5104-H      | 13.64       |
| 6            | A6S-6101-H    | A6S-6102-H     | A6S-6104-H      | 16.18       |
| 7            | A6S-7101-H    | A6S-7102-H     | A6S-7104-H      | 18.72       |
| 8            | A6S-8101-H    | A6S-8102-H     | A6S-8104-H      | 21.26       |
| 9            | A6S-9101-H    | A6S-9102-H     | A6S-9104-H      | 23.80       |
| 10           | A6S-0101-H    | A6S-0102-H     | A6S-0104-H      | 26.34       |

**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.**

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**OMRON Corporation**

**ELECTRONIC AND MECHANICAL COMPONENTS COMPANY**

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

**Cat. No. A211-E1-01**  
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