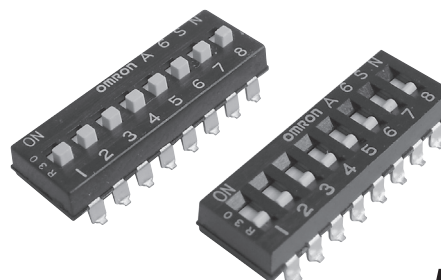


# DIP Switch A6SN

## Knife-edge high pressure mechanics.

- Knife-edge high pressure mechanics ensures high reliability.
- Knife-edge high pressure mechanics enables washing without seal tape.
- Embossed taping models available for automatic mounting.
- Temperature-resistance resin allows at peak reflow temperature of 260 °C.
- RoHS Compliant


**NEW**

## Ordering Information

| No. of poles | Quantity per tube | Tube packaging                                                                     |                                                                                    | Quantity per reel                          | Embossed taping packaging                                                            |                                                                                      |
|--------------|-------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|              |                   | Flat actuator                                                                      | Raised actuator                                                                    |                                            | Short lever                                                                          | Long lever                                                                           |
|              |                   |  |  |                                            |  |  |
| 1            | 100               | A6SN-1101                                                                          | A6SN-1104                                                                          | Flat actuator: 750<br>Raised actuator: 700 | ---                                                                                  | ---                                                                                  |
| 2            | 60                | A6SN-2101                                                                          | A6SN-2104                                                                          |                                            | A6SN-2101-P                                                                          | A6SN-2104-P                                                                          |
| 3            | 45                | A6SN-3101                                                                          | A6SN-3104                                                                          |                                            | A6SN-3101-P                                                                          | A6SN-3104-P                                                                          |
| 4            | 35                | A6SN-4101                                                                          | A6SN-4104                                                                          |                                            | A6SN-4101-P                                                                          | A6SN-4104-P                                                                          |
| 5            | 30                | A6SN-5101                                                                          | A6SN-5104                                                                          |                                            | A6SN-5101-P                                                                          | A6SN-5104-P                                                                          |
| 6            | 25                | A6SN-6101                                                                          | A6SN-6104                                                                          |                                            | A6SN-6101-P                                                                          | A6SN-6104-P                                                                          |
| 7            | 20                | A6SN-7101                                                                          | A6SN-7104                                                                          |                                            | A6SN-7101-P                                                                          | A6SN-7104-P                                                                          |
| 8            | 20                | A6SN-8101                                                                          | A6SN-8104                                                                          |                                            | A6SN-8101-P                                                                          | A6SN-8104-P                                                                          |
| 9            | 15                | A6SN-9101                                                                          | A6SN-9104                                                                          |                                            | A6SN-9101-P                                                                          | A6SN-9104-P                                                                          |
| 10           | 15                | A6SN-0101                                                                          | A6SN-0104                                                                          |                                            | A6SN-0101-P                                                                          | A6SN-0104-P                                                                          |

- Note:** 1. Order in multiples of the quantities given for each package.  
2. Seal tape versions available for flat actuator models. Consult Omron.

## Specifications

### Characteristics

|                               |                        |                                                                                        |
|-------------------------------|------------------------|----------------------------------------------------------------------------------------|
| Switching capacity            |                        | 25 mA at 24 VDC                                                                        |
| Minimum permissible load      |                        | 10 $\mu$ A at 3.5 VDC                                                                  |
| Contact resistance            |                        | 200 m $\Omega$ max.                                                                    |
| Insulation resistance         |                        | 100 M $\Omega$ min. (at 100 VDC)                                                       |
| Dielectric strength           |                        | 300 VAC for 1 min between terminals                                                    |
| Operating force               |                        | 100 to 806 gf (0.98 to 7.9 N)                                                          |
| Vibration resistance          | Malfunction Durability | 10 to 55 Hz, 1.5-mm double amplitude                                                   |
| Shock resistance              | Malfunction Durability | 490 m/s <sup>2</sup> min. (approx. 49.9G min.)                                         |
| Service life                  | Electrical             | 1,000 operations min.                                                                  |
| Ambient operating temperature |                        | −30 to 85°C at 60% RH max. (with no icing or condensation)                             |
| Ambient operating humidity    |                        | 35% to 95% (at 5 to 35°C)                                                              |
| 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) |

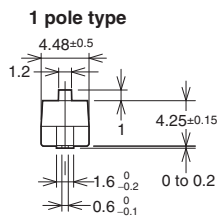
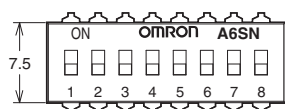
**Note:** Data shown are of initial value

# Dimensions

**Note:** 1. All units are in millimeters unless otherwise indicated.  
2. Unless otherwise specified, a tolerance of  $\pm 0.4$  mm applies to all dimensions.

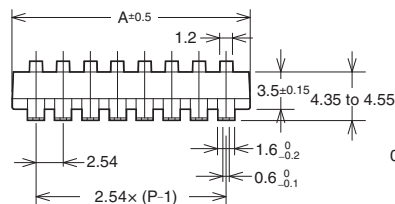
## Flat actuator

A6SN-□101

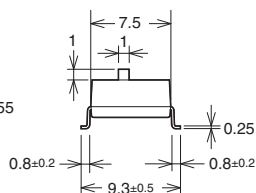


## Raised actuator

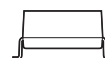
A6SN-□104



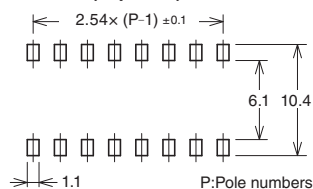
### Raised actuator



### Flat actuator



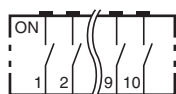
### Dimensions of PCB pad (Top View)



| No. of poles | Models        |                 | A    |
|--------------|---------------|-----------------|------|
|              | Flat actuator | Raised actuator |      |
| 1            | A6SN-1101     | A6SN-1104       | 4.48 |
| 2            | A6SN-2101     | A6SN-2104       | 7.0  |
| 3            | A6SN-3101     | A6SN-3104       | 9.6  |
| 4            | A6SN-4101     | A6SN-4104       | 12.1 |
| 5            | A6SN-5101     | A6SN-5104       | 14.6 |
| 6            | A6SN-6101     | A6SN-6104       | 17.2 |
| 7            | A6SN-7101     | A6SN-7104       | 19.7 |
| 8            | A6SN-8101     | A6SN-8104       | 22.3 |
| 9            | A6SN-9101     | A6SN-9104       | 24.8 |
| 10           | A6SN-0101     | A6SN-0104       | 27.3 |

## Internal Connections

(Top View)

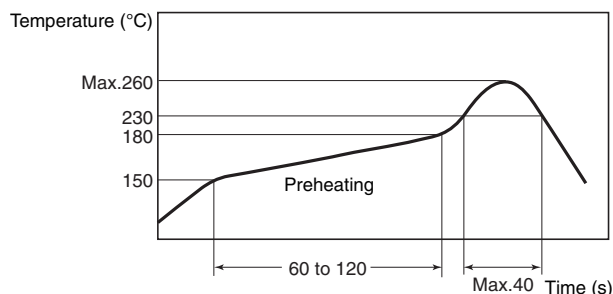


# Precautions

## Correct Use

### Soldering

- Set the Switch to OFF before soldering.
- Observe the following conditions for reflow soldering.  
(Measurement location: Top of Switch)



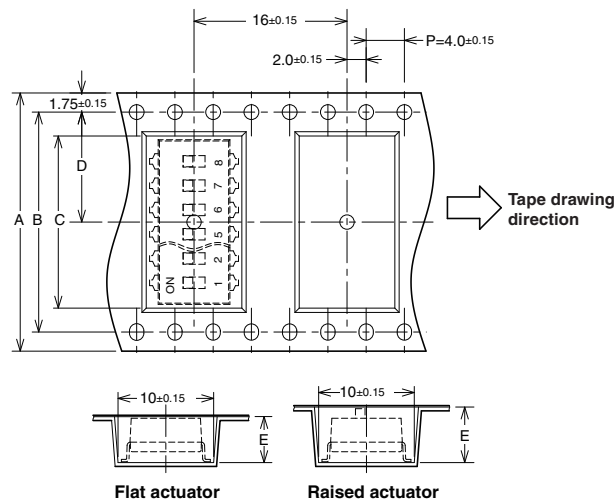
- Subject the switches to a reflow solder process only once.
- Manual Soldering  
Soldering temperature : 400 °C max. at the tip of the soldering iron.  
Soldering time : 4 s max.

### Washing

Apply alcohol-based solvents to clean.

Do not apply water or any other agents to clean, as such agents may degrade the materials or performance of the Switch.

### Packing Specifications



| No. of poles |        | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
|--------------|--------|------|------|------|------|------|------|------|------|------|
| Dimension    |        |      |      |      |      |      |      |      |      |      |
| A            |        | 24   | 24   | 24   | 24   | 32   | 32   | 44   | 44   | 44   |
| B            |        | ---  | ---  | ---  | ---  | 28.4 | 28.4 | 40.4 | 40.4 | 40.4 |
| C            |        | 7.9  | 10.4 | 12.9 | 15.4 | 18.0 | 20.5 | 22.7 | 25.5 | 28.1 |
| D            |        | 11.5 | 11.5 | 11.5 | 11.5 | 14.2 | 14.2 | 20.2 | 20.2 | 20.2 |
| E            | Flat   | 4.8  |      |      |      |      |      |      |      |      |
|              | Raised | 5.8  |      |      |      |      |      |      |      |      |

### Environment for Storage and Use

To prevent discoloration of the terminals and other problems during storage, do not store the A6SN in locations subject to the following conditions.

- High temperatures or humidity/Corrosive gases
- Direct sunlight/Contact with water

All sales are subject to Omron Electronic Components LLC standard terms and conditions of sale, which can be found at [http://www.components.omron.com/components/web/webfiles.nsf/sales\\_terms.html](http://www.components.omron.com/components/web/webfiles.nsf/sales_terms.html)

**ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.**

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

---

**OMRON**<sup>®</sup>

**OMRON ELECTRONIC  
COMPONENTS LLC**

55 E. Commerce Drive, Suite B  
Schaumburg, IL 60173

**847-882-2288**

**OMRON ON-LINE**

Global - <http://www.omron.com>

USA - <http://www.components.omron.com>

Cat. No.A193-E-01

12/10

Specifications subject to change without notice

Printed in USA

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)

[www.lifeelectronics.ru](http://www.lifeelectronics.ru)