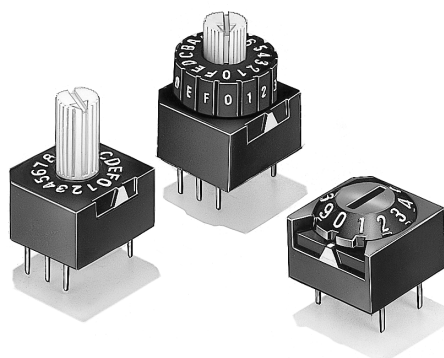


## DIP Switch (Rotary Type)

## A6A

### Select the Right Rotary DIP Switch for the Type of Operation

- Series includes a standard type that can be operated from the top or side, an extended shaft type that can be operated while mounted on a panel, and a flat type.
- A slider lock and rotating PCB system ensure stable contact reliability.
- Completely sealed construction prevents flux entry during automatic flow soldering.



### Ordering Information

| Type (rotor color)         |                                         | Standard type (Black)                                                              | Flat type (White)                                                                  | Extended shaft type (White)                                                          | Thumbwheel type (White)                                                              |
|----------------------------|-----------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| No. of switching positions | Appearance                              |  |  |  |  |
|                            | Output code                             |                                                                                    |                                                                                    |                                                                                      |                                                                                      |
| 10                         | BCD/hexadecimal 1-2-4-8 code            | A6A-10R                                                                            | A6A-10RF                                                                           | A6A-10RS                                                                             | A6A-10RW                                                                             |
|                            | BCD/hexadecimal 1-2-4-8 complement code | A6A-10C                                                                            | A6A-10CF                                                                           | A6A-10CS                                                                             | A6A-10CW                                                                             |
| 16                         | BCD/hexadecimal 1-2-4-8 code            | A6A-16R                                                                            | A6A-16RF                                                                           | A6A-16RS                                                                             | A6A-16RW                                                                             |
|                            | BCD/hexadecimal 1-2-4-8 complement code | A6A-16C                                                                            | A6A-16CF                                                                           | A6A-16CS                                                                             | A6A-16CW                                                                             |

- Note:**
1. Contact your OMRON sales representative to request special markings or designations.
  2. The standard packing configuration is units of 100 per box.

# Specifications

## ■ Ratings/Characteristics

|                       |                                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Switching capacity    | 1 mA to 0.1 A at 5 to 28 VDC (switching current)                                                                                          |
| Ambient temperature   | Operating: -10 to 70°C (no icing)                                                                                                         |
| Ambient humidity      | 85% max.                                                                                                                                  |
| Insulation resistance | 10 MΩ min. (at 250 VDC)                                                                                                                   |
| Contact resistance    | 200 mΩ max. (initial value)                                                                                                               |
| Dielectric strength   | 500 VAC at 50/60 Hz for 1min between ground and the charging plate<br>250 VAC at 50/60 Hz for 1min between terminals of the same polarity |
| Vibration resistance  | Malfunction: 10 to 55 Hz, 1.5 mm double amplitude                                                                                         |
| Shock resistance      | Malfunction: 300 m/s <sup>2</sup> min.                                                                                                    |
| Operating force       | 1.18 to 2.45 × 10 <sup>-2</sup> N·m                                                                                                       |
| Weight                | Approx. 0.75g for the A6A-10R                                                                                                             |

### 10-position Models

| Type                     | BCD/hexadecimal<br>1-2-4-8 code |   |   |   | BCD/hexadecimal<br>1-2-4-8 complement<br>code |   |   |   |
|--------------------------|---------------------------------|---|---|---|-----------------------------------------------|---|---|---|
|                          | 1                               | 2 | 4 | 8 | 1                                             | 2 | 4 | 8 |
| Terminal No.<br>Position |                                 |   |   |   |                                               |   |   |   |
| 0                        |                                 |   |   |   | •                                             | • | • | • |
| 1                        | •                               |   |   |   |                                               | • | • | • |
| 2                        |                                 | • |   |   | •                                             |   | • | • |
| 3                        | •                               | • |   |   |                                               |   | • | • |
| 4                        |                                 |   | • |   | •                                             | • |   | • |
| 5                        | •                               |   | • |   |                                               | • |   | • |
| 6                        |                                 | • | • |   | •                                             |   |   | • |
| 7                        | •                               | • | • |   |                                               |   |   | • |
| 8                        |                                 |   |   | • | •                                             | • | • |   |
| 9                        | •                               |   |   | • |                                               | • | • |   |

### 16-position Models

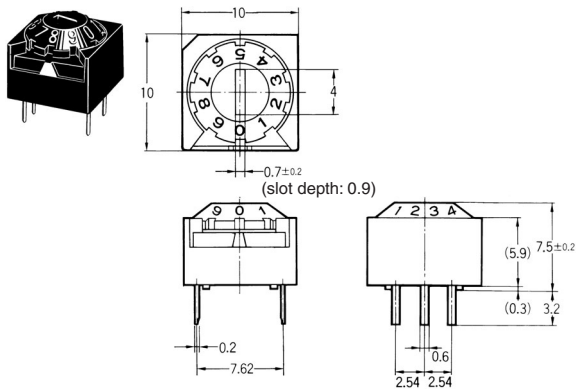
| Type                     | BCD/hexadecimal<br>1-2-4-8 code |   |   |   | BCD/hexadecimal<br>1-2-4-8 complement<br>code |   |   |   |
|--------------------------|---------------------------------|---|---|---|-----------------------------------------------|---|---|---|
|                          | 1                               | 2 | 4 | 8 | 1                                             | 2 | 4 | 8 |
| Terminal No.<br>Position |                                 |   |   |   |                                               |   |   |   |
| 0                        |                                 |   |   |   | •                                             | • | • | • |
| 1                        | •                               |   |   |   |                                               | • | • | • |
| 2                        |                                 | • |   |   | •                                             |   | • | • |
| 3                        | •                               | • |   |   |                                               |   | • | • |
| 4                        |                                 |   | • |   | •                                             | • |   | • |
| 5                        | •                               |   | • |   |                                               | • |   | • |
| 6                        |                                 | • | • |   | •                                             |   |   | • |
| 7                        | •                               | • | • |   |                                               |   |   | • |
| 8                        |                                 |   |   | • | •                                             | • | • |   |
| 9                        | •                               |   |   | • |                                               | • | • |   |
| A                        |                                 | • |   | • | •                                             |   | • |   |
| B                        | •                               | • |   | • |                                               |   | • |   |
| C                        |                                 |   | • | • | •                                             | • |   |   |
| D                        | •                               |   | • | • |                                               | • |   |   |
| E                        |                                 | • | • | • | •                                             |   |   |   |
| F                        | •                               | • | • | • |                                               |   |   |   |

**Note:** “•” indicates that the internal switch is ON.

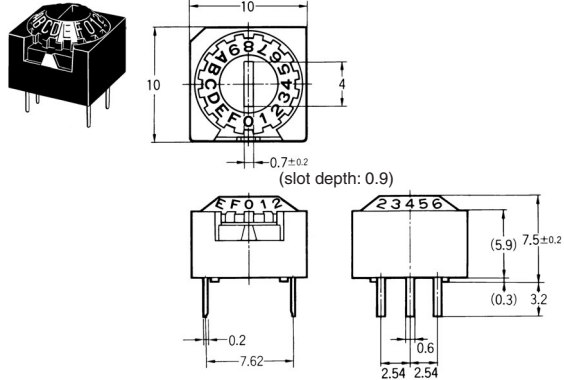
## Dimensions

**Note:** All units are in millimeters unless otherwise indicated.

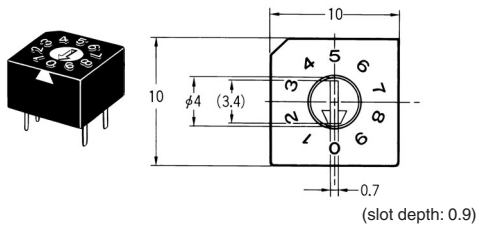
### Standard Type, 10 Positions A6A-10R, A6A-10C



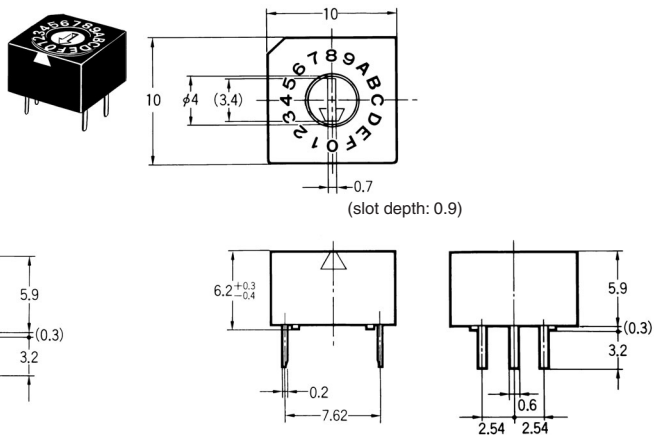
### Standard Type, 16 Positions A6A-16R, A6A-16C



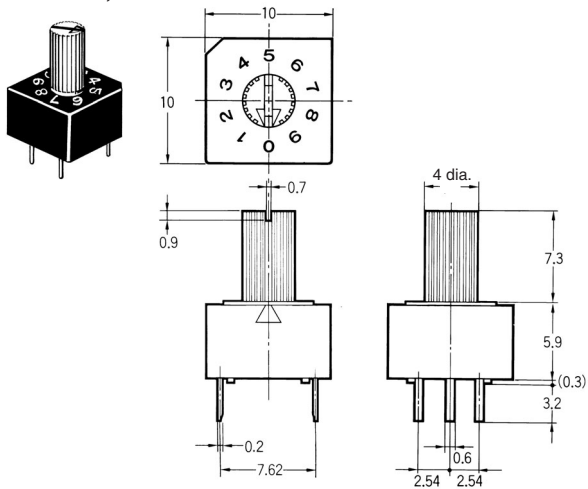
### Flat Type, 10 Positions A6A-10RF, A6A-10CF



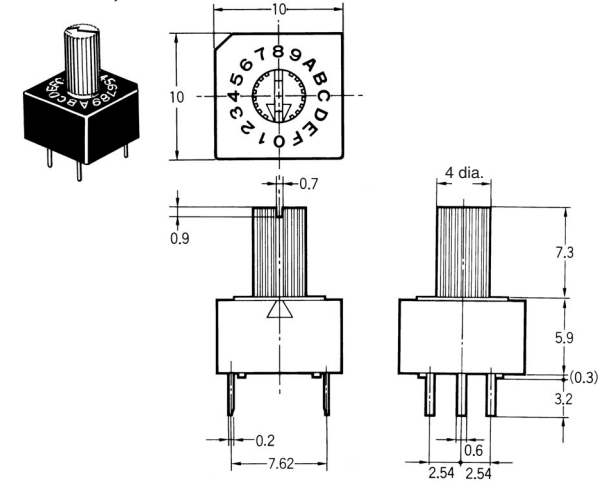
### Flat Type, 16 Positions A6A-16RF, A6A-16CF



### Extended Shaft Type, 10 Positions A6A-10RS, A6A-10CS

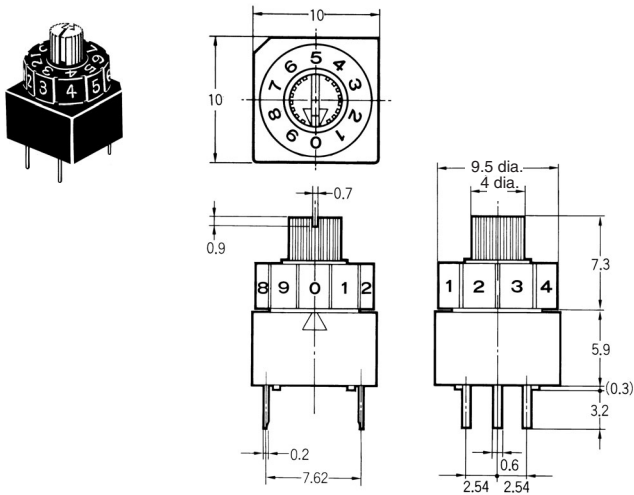


### Extended Shaft Type, 16 Positions A6A-16RS, A6A-16CS



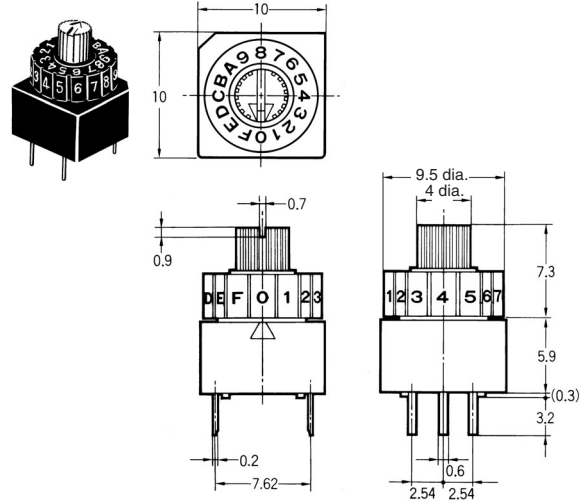
### Thumbwheel Type, 10 Positions

**A6A-10RW, A6A-10CW**



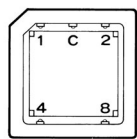
### Thumbwheel Type, 16 Positions

**A6A-16RW, A6A-16CW**

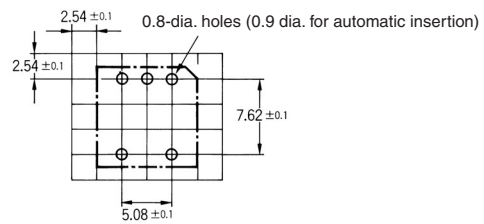


# Installation

### Terminal arrangement (bottom view)



**Mounting holes  
(top view)**



## Precautions

Be sure to refer to General Precautions on pages 4 to 6 for details on proper use.

**ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.**

**ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.**  
To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.