OMRON

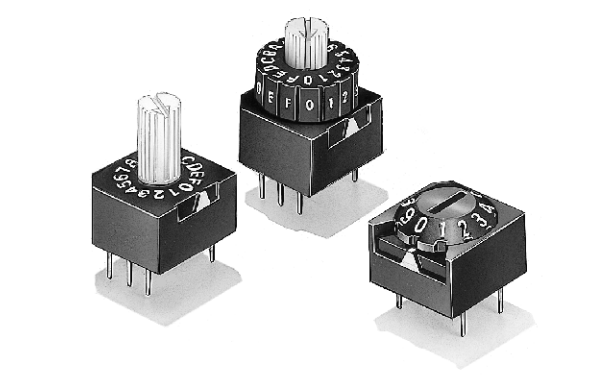
Sealed Rotary DIP Switch

A6A

Sealed Rotary DIP Switch with Various selections for Code-setting.

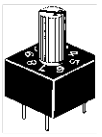
- Top/Side-visible. Flat/Cone shaped/Extended-actuator models available.
- A slider lock and rotating PCB mechanism ensure stable contact reliability.
- Sealed structure equivalent to IP64 (IEC-60529) prevents flux penetration and provides high contact reliability even in dusty locations.

RoHS Compliant



Ordering Information

■List of Models

No. of switching positions	Output code	Quantity per box	Type (actuation color) Cone type (black)	Flat type (white)	Extended actuator wheel type (white)	Wheel type (White with Black Wheel)
						
10	BCD Decimal	100	A6A-10R	A6A-10RF	A6A-10RS	A6A-10RW
	BCD Decimal complement		A6A-10C	A6A-10CF	A6A-10CS	A6A-10CW
16	BCD Hexadecimal		A6A-16R	A6A-16RF	A6A-16RS	A6A-16RW
	BCD Hexadecimal complement		A6A-16C	A6A-16CF	A6A-16CS	A6A-16CW

Note: 1. Contact your OMRON sales representative to request special markings or designations.
2. Order in multiples of the package quantity.

Specifications

■Ratings/Characteristics

Rating	0.1 A at 28 VDC, 1 mA (minimum current) at 5 VDC
Ambient operating temperature	–10 to 70°C 60%RH max. (with no icing or condensation)
Ambient operating humidity	45% to 85%RH (at 5 to 35°C)
Insulation resistance	10 MΩ min. (at 250 VDC)
Contact resistance	200 mΩ max. (initial value)
Dielectric strength	250 VAC for 1 min between terminals
Vibration resistance	Malfunction: 10 to 55 Hz, 1.5-mm double amplitude
Shock resistance	Malfunction: 300 m/s^2 min.
Durability	Electrical: 2,000 steps min.
Operating torque	1.18 to 2.45 × 10^{-2} N·m {1.2 to 2.5 gf·m}
Weight	Cone: Approx. 0.8 g Flat: Approx. 0.7 g Extended actuator: Approx. 0.8g Wheel: Approx. 1.0g

■Output Codes

10-position Models

Type / Terminal No. / Position	BCD Decimal code				BCD Decimal complement code			
	1	2	4	8	$\bar{1}$	$\bar{2}$	$\bar{4}$	$\bar{8}$
0					●	●	●	●
1	●					●	●	●
2		●			●		●	●
3	●	●					●	●
4			●		●	●		●
5	●		●			●		●
6		●	●		●			●
7	●	●	●					●
8				●	●	●	●	
9	●			●		●	●	

Note: "●" indicates that the internal switch is ON.

16-position Models

Type / Terminal No. / Position	BCD Hexadecimal code				BCD Hexadecimal complement code			
	1	2	4	8	$\bar{1}$	$\bar{2}$	$\bar{4}$	$\bar{8}$
0					●	●	●	●
1	●					●	●	●
2		●			●		●	●
3	●	●					●	●
4			●		●	●		●
5	●		●			●		●
6		●	●		●			●
7	●	●	●					●
8				●	●	●	●	
9	●			●		●	●	
A		●		●	●		●	
B	●	●		●			●	
C			●	●	●	●		
D	●		●	●		●		
E		●	●	●	●			
F	●	●	●	●				

Note: "●" indicates that the internal switch is ON.

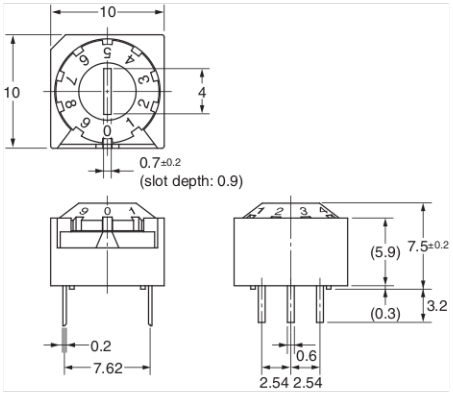
Dimensions

Note: **1.** All units are in millimeters unless otherwise indicated.

2. Unless otherwise specified, a tolerance of ±0.4 mm applies to all dimensions.

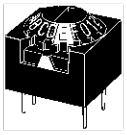
● Cone Type, 10 Positions

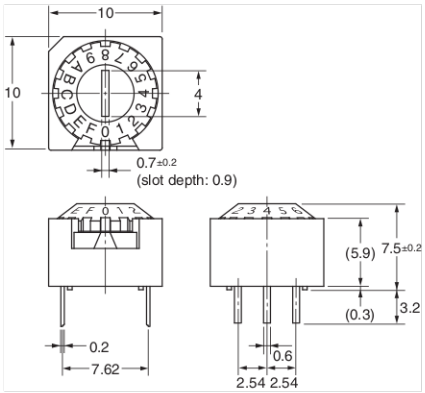
A6A-10R
A6A-10C



● Cone Type, 16 Positions

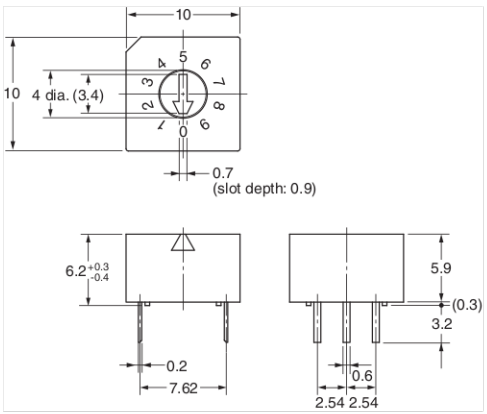
A6A-16R
A6A-16C





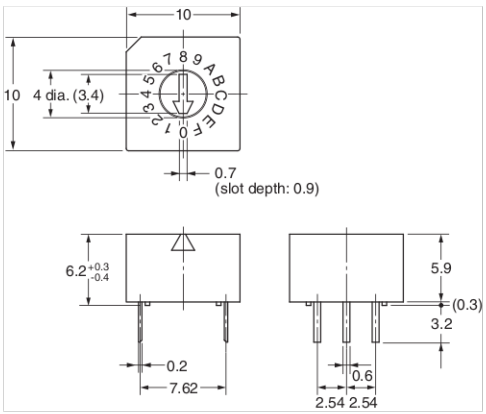
● Flat Type, 10 Positions

A6A-10RF
A6A-10CF



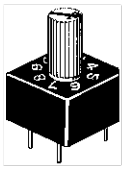
● Flat Type, 16 Positions

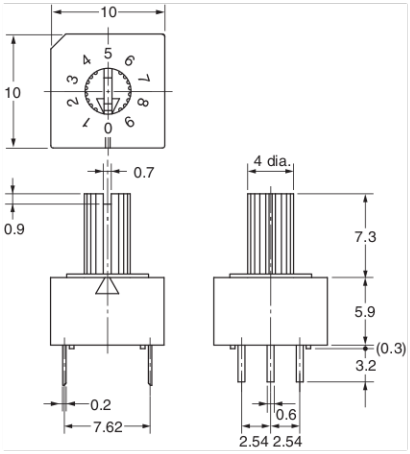
A6A-16RF
A6A-16CF



● **Extended Actuator Type, 10 Positions**

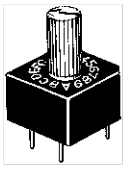
A6A-10RS
A6A-10CS

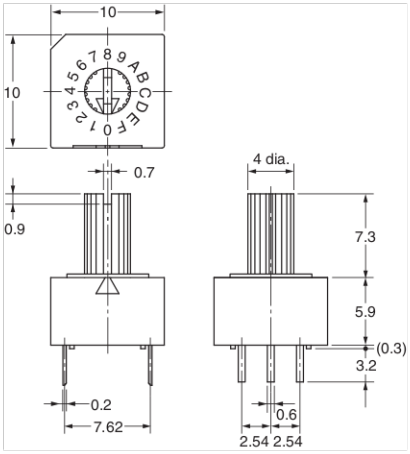




● **Extended Actuator Type, 16 Positions**

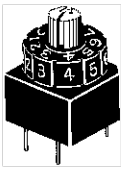
A6A-16RS
A6A-16CS

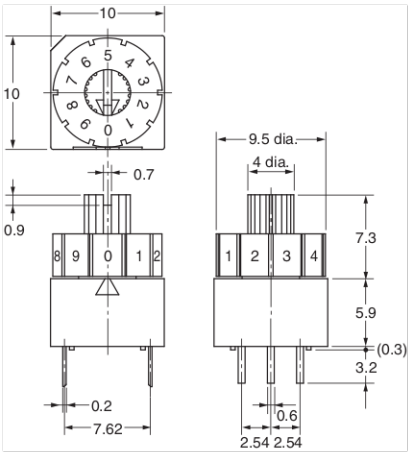




● **Wheel Type, 10 Positions**

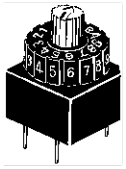
A6A-10RW
A6A-10CW

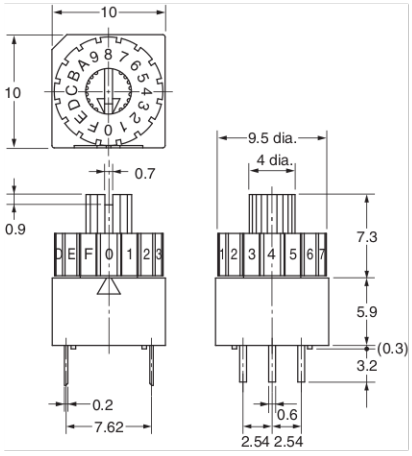




● **Wheel Type, 16 Positions**

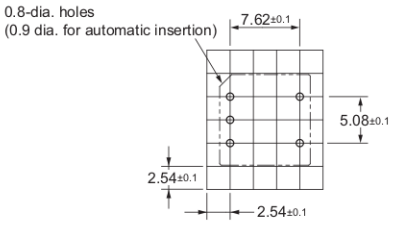
A6A-16RW
A6A-16CW





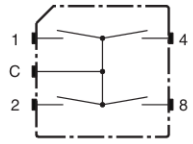
■PCB Dimensions (Top View)

(Single-sided PCB, t = 1.2 to 1.6)



Internal Connections

■Contact Form (Top View)



Precautions

Be sure to read the Safety precautions common to all DIP Switches for correct use.

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