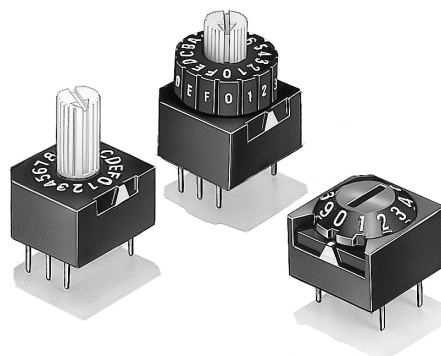


Sealed Rotary DIP Switch

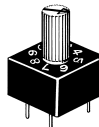
A6A

Subminiature DIP Switch for High-Density Packaging

- Series includes a Cone 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 achieve stable contact reliability.
- Sealed construction equivalent to IP64 (IEC 60529) prevents flux penetration and provides high contact reliability even in dusty locations and locations where water is used
- RoHS Compliant



Ordering Information

		Part Numbers			
		Standard (Cone)	Flat	Extended shaft	Thumbwheel
					
Output code	No. of positions				
BCD 1-2-4-8	10	A6A-10R	A6A-10RF	A6A-10RS	A6A-10RW
BCD 1-2-4-8 complement		A6A-10C	A6A-10CF	A6A-10CS	A6A-10CW
BCD Hexadecimal 1-2-4-8	16	A6A-16R	A6A-16RF	A6A-16RS	A6A-16RW
BCD Hexadecimal 1-2-4-8 complement		A6A-16C	A6A-16CF	A6A-16CS	A6A-16CW

Important Note: Switches cannot be water-washed.

Specifications

■ Characteristics

Switching capacity		100 mA at 28 VDC, 1 mA at 5 VDC (minimum load)
Contact resistance		200 MΩ max.
Insulation resistance		10 MΩ min. (at 250 VDC)
Dielectric strength		500 VAC for 1 minute between current-carrying metal part and ground 250 VAC for 1 minute between terminals
Operating torque		120 to 250 g-cm (1.18 to 2.45 x 10 ⁻² N-m) max.
Vibration resistance	Malfunction durability	10 to 55 Hz, 1.5 mm double amplitude
Shock resistance	Malfunction durability	300 m/s ² (30 G) min.
Ambient operating temperature		-10° to 70°C at 60% RH max. (with no icing or condensation)
Ambient operating humidity		45% to 85% RH (at 5 to 35°C)
Service life	Mechanical	10,000 detent operations min.
	Electrical	2,000 detent operations min.
Weight		Cone: Approx. 0.8 g Flat: Approx. 0.7 g Extended shaft: Approx. 0.8g Thumbwheel: Approx. 1.0g

Note: Data shown are of initial value.

Output Codes

10-position Models

Type Terminal No. Position	BCD 1-2-4-8				BCD 1-2-4-8 complement			
	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 1-2-4-8				BCD/hexadecimal 1-2-4-8 complement			
	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.

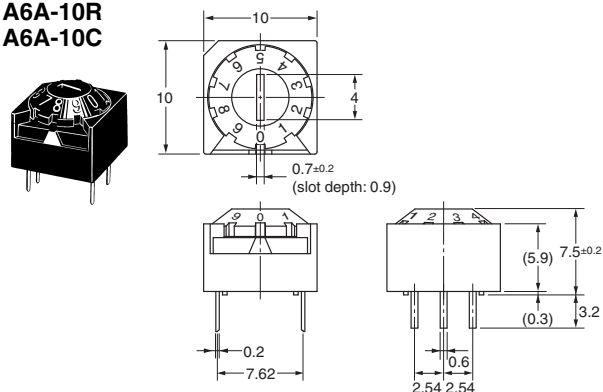
Dimensions

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

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

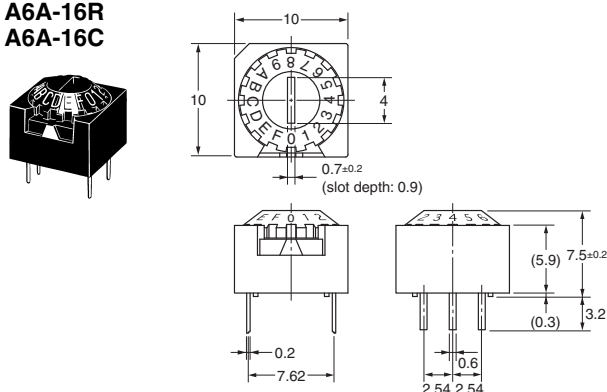
Standard (Cone) Type, 10 Positions

A6A-10R
A6A-10C



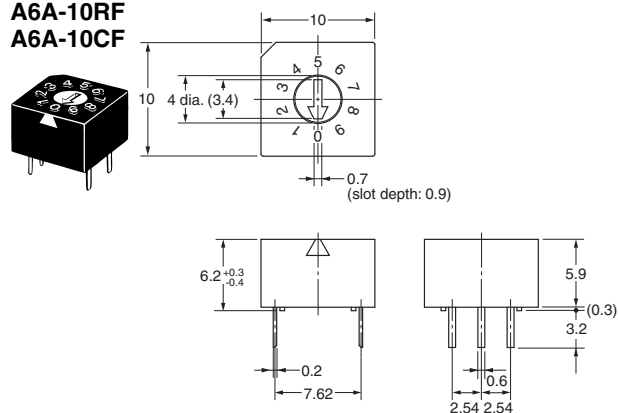
Standard (Cone) Type, 16 Positions

A6A-16R
A6A-16C



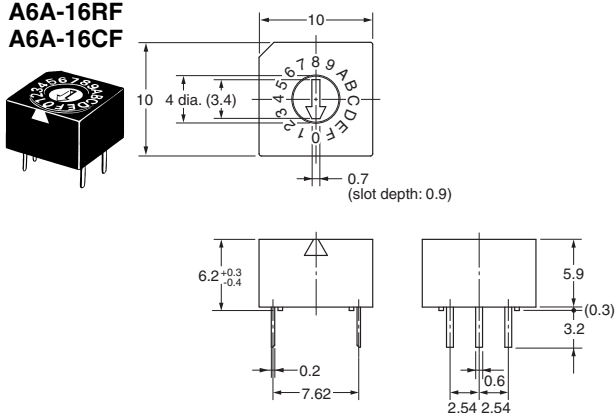
Flat Type, 10 Positions

A6A-10RF
A6A-10CF



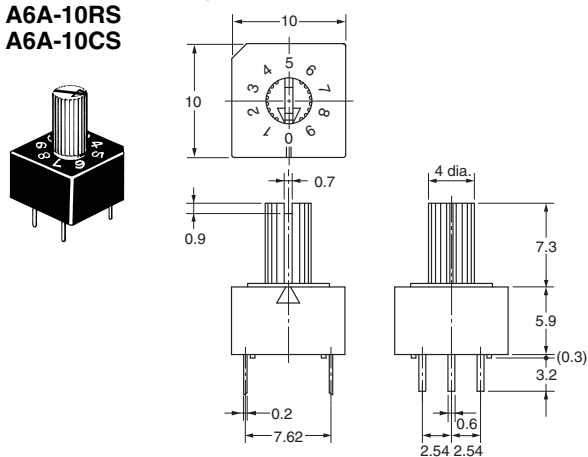
Flat Type, 16 Positions

A6A-16RF
A6A-16CF



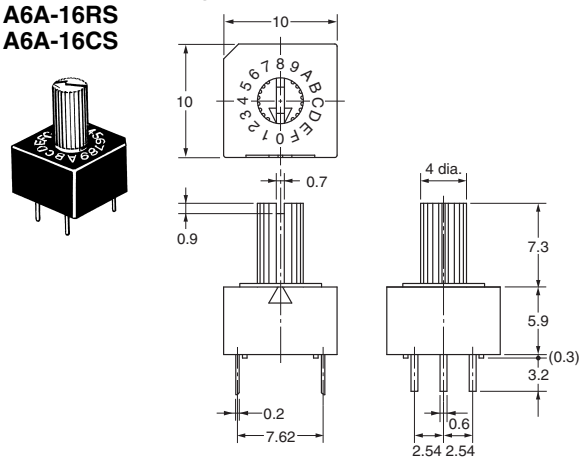
■ Extended Shaft Type, 10 Positions

A6A-10RS
A6A-10CS



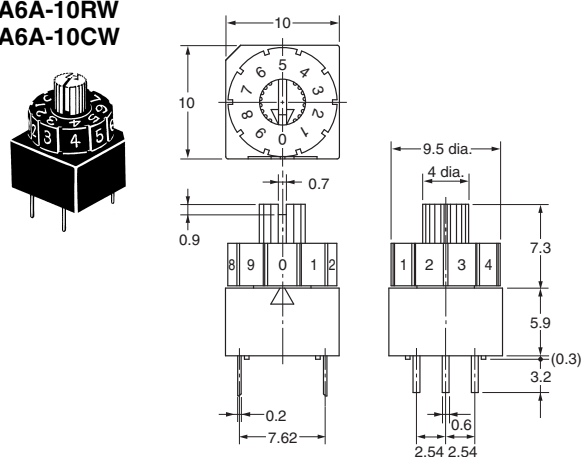
■ Extended Shaft Type, 16 Positions

A6A-16RS
A6A-16CS



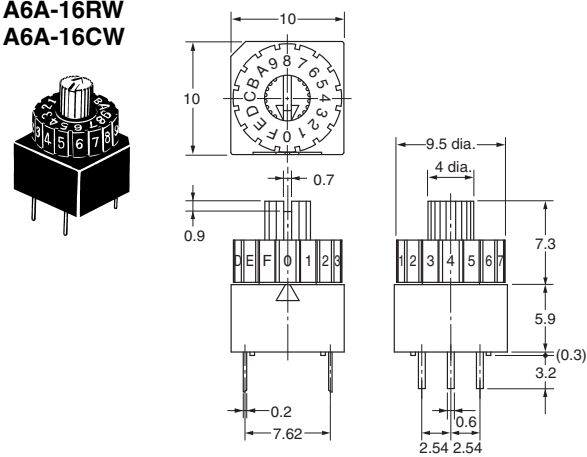
■ Thumbwheel Type, 10 Positions

A6A-10RW
A6A-10CW

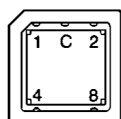


■ Thumbwheel Type, 16 Positions

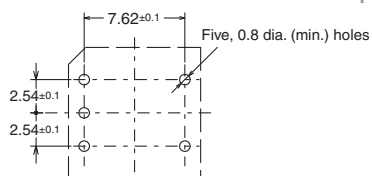
A6A-16RW
A6A-16CW



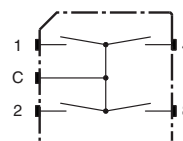
Terminal arrangement
(bottom view)



Mounting holes
(Top view)



Internal connections
(top view)



MEMO

Omron Electronic Components, LLC

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ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

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

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