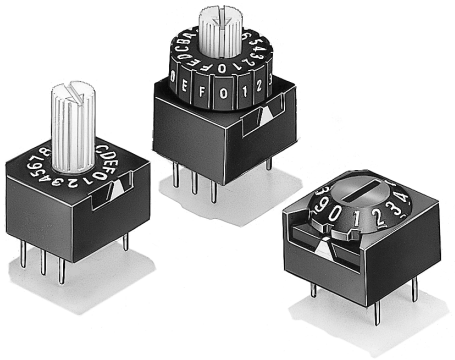
OMRON

Rotary DIP Switch

A6A

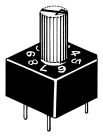
10mm Square Sealed Rotary DIP Switches

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



■List of Models

● Model in packing with a box

No. of switching positions	Output code	Quantity per box	Type (actuation color): Cone type (black)	Flat type (white)	Extended-actuator 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.

■Ratings/Characteristics

Rating (resistive load)		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 with insulation tester)
Contact resistance (initial value)		200 mΩ max.
Dielectric strength	**Between terminals**	250 VAC for 1 min
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.
Washing		Possible
Degree of protection		Internally sealed (IEC IP64 equivalency)
Operating torque		$1.18 \text{ to } 2.45 \times 10^{-2}$ 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

Downloaded from Arrow.com.

■Output Codes

10-position Models

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

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

16-position Models

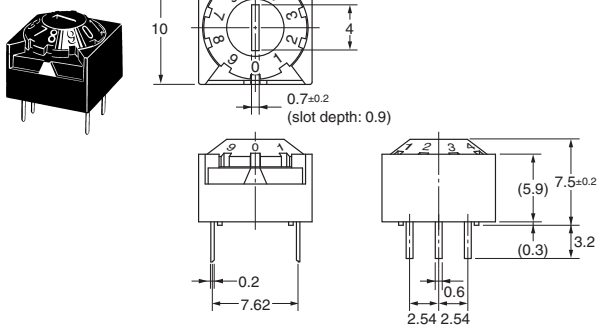
Type / Terminal No. / Position	BCD Hexadecimal code				BCD Hexadecimal complement code			
	1	2	4	8	$\overline{1}$	$\overline{2}$	$\overline{4}$	$\overline{8}$
0					●	●	●	●
1	●					●	●	●
2		●			●		●	●
3	●	●					●	●
4			●		●	●		●
5	●		●			●		●
6		●	●		●			●
7	●	●	●					●
8				●	●	●	●	
9	●			●		●	●	
A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

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

■Dimensions (Unit: mm)

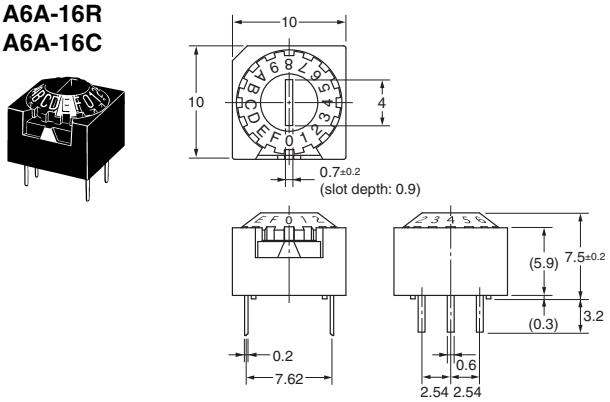
● Cone Type, 10 Positions

A6A-10R
A6A-10C



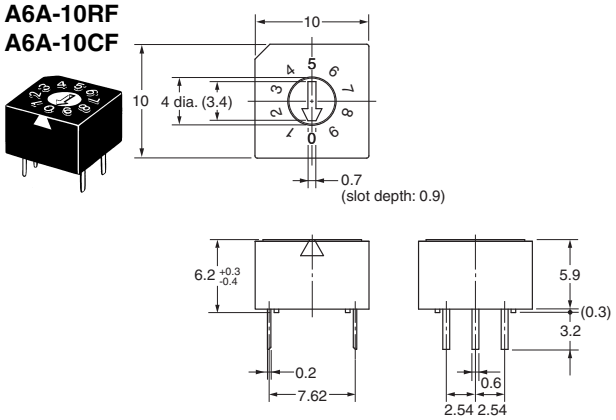
● Cone Type, 16 Positions

A6A-16R
A6A-16C



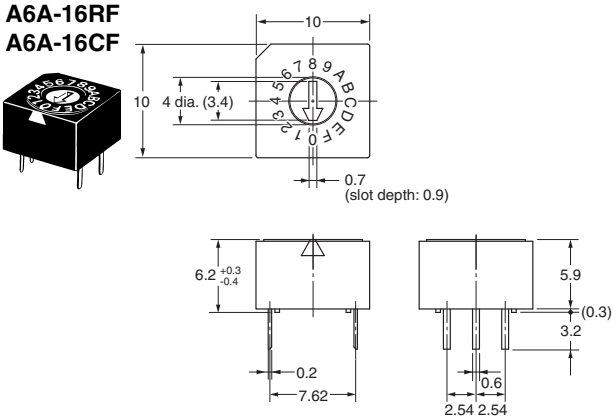
● Flat Type, 10 Positions

A6A-10RF
A6A-10CF



● Flat Type, 16 Positions

A6A-16RF
A6A-16CF

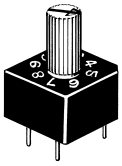


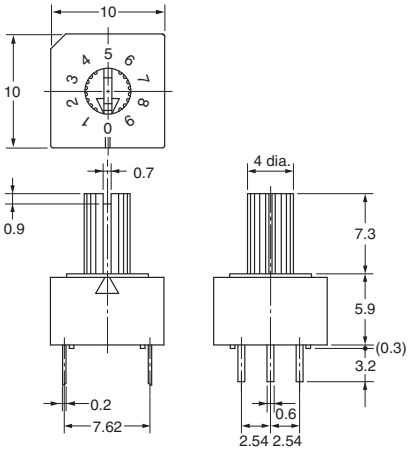
Note: Unless otherwise specified, a tolerance of ±0.4 mm applies to all dimensions.

Downloaded from Arrow.com.

● **Extended-actuator Type, 10 Positions**

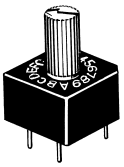
A6A-10RS
A6A-10CS

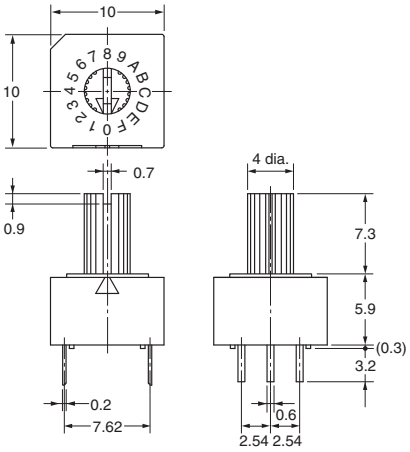




● **Extended-actuator Type, 16 Positions**

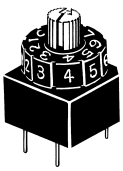
A6A-16RS
A6A-16CS

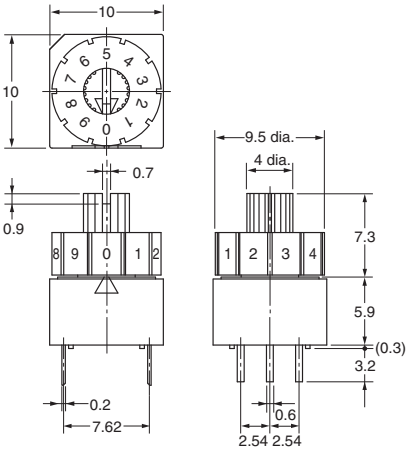




● **Wheel Type, 10 Positions**

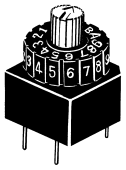
A6A-10RW
A6A-10CW

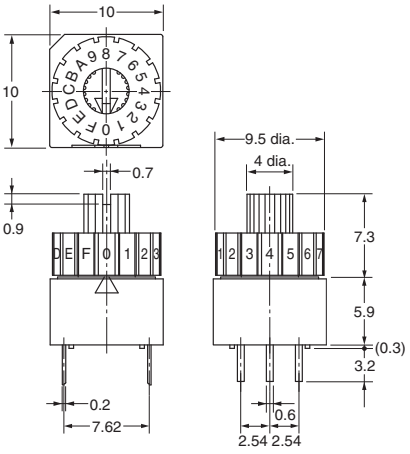




● **Wheel Type, 16 Positions**

A6A-16RW
A6A-16CW

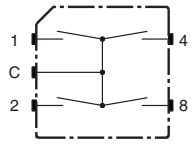




Note: Unless otherwise specified, a tolerance of ±0.4 mm applies to all dimensions.

■Internal Connections

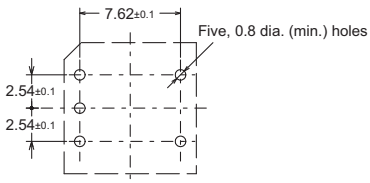
Contact Form (Top View)



■PCB Dimensions (Reference) (Unit: mm)

(Top View)

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



■Precautions

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

Downloaded from Arrow.com.

Please check each region's Terms & Conditions by region website.

OMRON Corporation
Device & Module Solutions Company

Regional Contact

Americas
https://components.omron.com/us

Europe
https://components.omron.com/eu

Asia-Pacific
https://components.omron.com/ap

China
https://components.omron.com.cn

Korea
https://components.omron.com/kr

Japan
https://components.omron.com/jp

© OMRON Corporation 2007-2022 All Rights Reserved.
In the interest of product improvement, specifications are subject to change without notice.

Cat. No. A213-E1-05
1122 (0207)

Downloaded from Arrow.com.