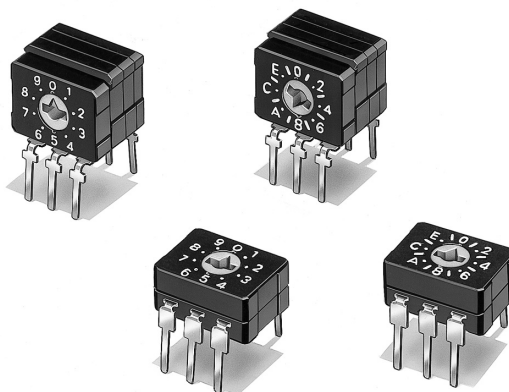


Rotay DIP Switch

A6C/A6CV

Miniature Sealed Rotary DIP Switches

- A precise rotary cam and contact driving mechanism achieve compactness for high-density mounting.
- Sealed structure equivalent to IP64 (IEC-60529) prevents flux penetration and provides high contact reliability even in dusty locations.



List of Models

No. of switching positions		Type		Top actuated		Side actuated	
				Tube packaging		Model in packing with a box	
							
Output code		Quantity per tube				Quantity per box	
10	BCD Decimal	55		A6C-10R (N)		100	
16	BCD Hexadecimal			A6C-16R (N)			
						A6CV-10R	
						A6CV-16R	

Note: Order in multiples of the package quantity.

Ratings/Characteristics

Rating (resistive load)		0.1 A at 30 VDC 10 μ A (minimum current) at 3.5 VDC
Ambient operating temperature		-20 to 70°C 60%RH max. (with no icing or condensation)
Ambient operating humidity		35% to 95%RH (at 5 to 35°C)
Insulation resistance		100 M Ω min. (at 250 VDC with insulation tester)
Contact resistance (initial value)		200 m Ω 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		0.98 $\times 10^{-2}$ N·m {1 gf·m} max.
Weight		Top actuated type: approx. 0.4 g Side actuated type: approx. 0.8 g

Output Codes

10-position Models

Code Position	1	BCD Decimal code	2	4	8
0					
1	●				
2		●			
3	●	●			
4				●	
5	●			●	
6		●		●	
7	●	●		●	
8					●
9	●				●

16-position Models

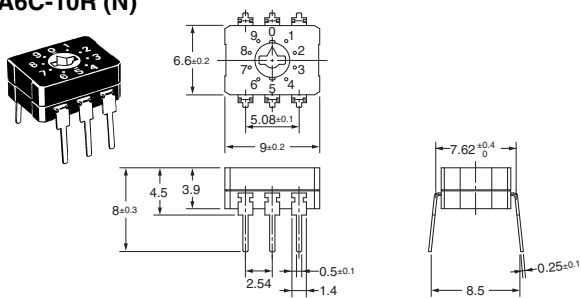
Code Position	1	BCD Hexadecimal code	2	4	8
0					
1	●				
2		●			
3	●	●			
4				●	
5	●			●	
6		●		●	
7	●	●		●	
8					●
9	●				●
A		●			●
B	●	●			●
C				●	●
D	●			●	●
E		●		●	●
F	●	●		●	●

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

Dimensions (Unit: mm)

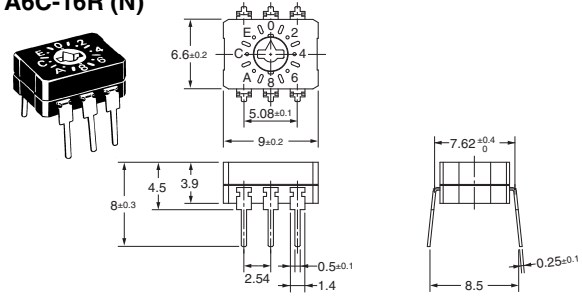
● Top Actuated, 10 Positions

A6C-10R (N)



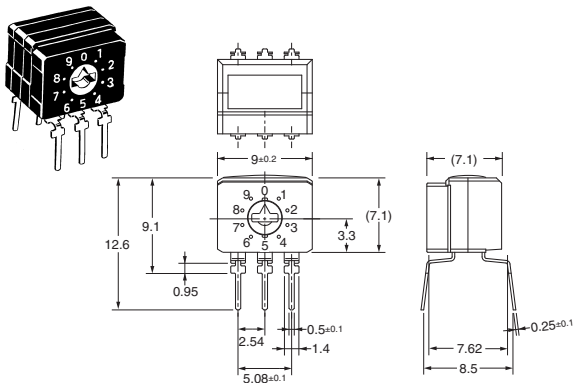
● Top Actuated, 16 Positions

A6C-16R (N)



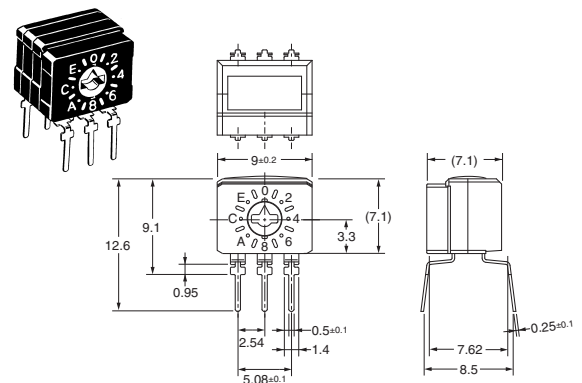
● Side Actuated, 10 Positions

A6CV-10R



● Side Actuated, 16 Positions

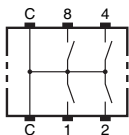
A6CV-16R



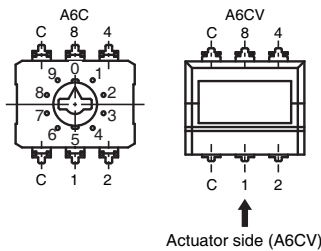
Note: Unless otherwise specified, a tolerance of ± 0.4 mm applies to all dimensions.

Internal Connections/Terminal arrangement/PCB Dimensions (Reference) (Unit: mm)

Contact Form (Top View)

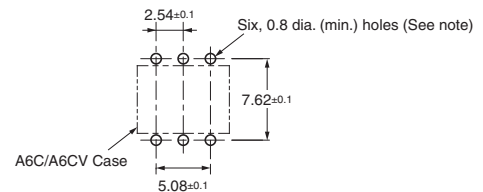


Terminal arrangement



Mounting holes (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.

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

OMRON Corporation
Device & Module Solutions Company

Regional Contact

Americas

<https://components.omron.com/us>

Asia-Pacific

<https://components.omron.com/ap>

Korea

<https://components.omron.com/kr>

Europe

<https://components.omron.com/eu>

China

<https://components.omron.com.cn>

Japan

<https://components.omron.com/jp>