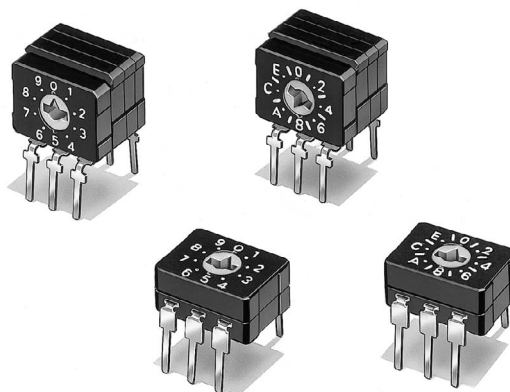


Sealed Rotay DIP Switch

A6C/A6CV

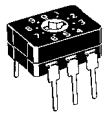
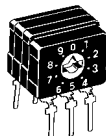
Internally Sealed DIL-IC Type Rotary DIP Switch

- A precise rotary cam and contact driving mechanism achieve compactness for high-density mounting.
- Top/Side-actuated models available.
- Insert-molded terminals and an O-ring sealed rotor combine to form a sealed structure equivalent to IP64 (IEC-60529) to prevent flux penetration and provides high contact reliability even in dusty locations.
- Offset between terminal pins and side of case allows simple circuit inspection.



RoHS Compliant

List of Models

Type (actuator color)		Top actuated (Orange)		Side actuated (Orange)	
No. of switching positions	Output code	Quantity per tube		Quantity per box	
10	BCD Decimal	55		100	A6CV-10R
16	BCD Hexadecimal				A6CV-16R
			A6C-10R (N) A6C-16R (N)		

Note: Order in multiples of the package quantity.

Ratings/Characteristics

Ratings		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)
Contact resistance		200 m Ω max. (initial value)
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.
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

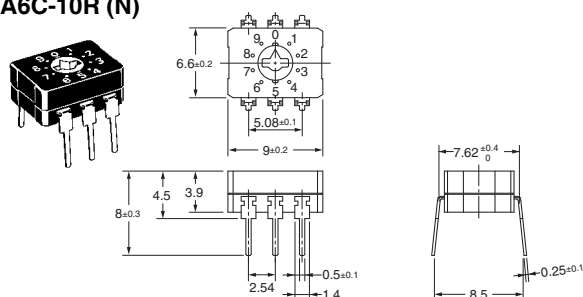
Code Position	1	BCD Hexadecimal code	2	4	8
0					
1	●				
2		●			
3	●	●			
4				●	
5	●			●	
6		●		●	
7	●	●		●	
8					●
9	●				●
A		●			●
B	●	●			●
C				●	●
D	●			●	●
E		●		●	●
F	●	●		●	●

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

Dimensions (Unit: mm)

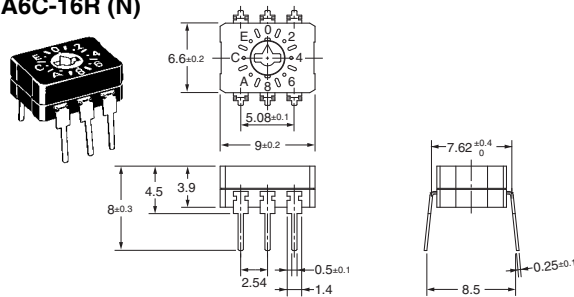
● Top Actuated, 10 Positions

A6C-10R (N)



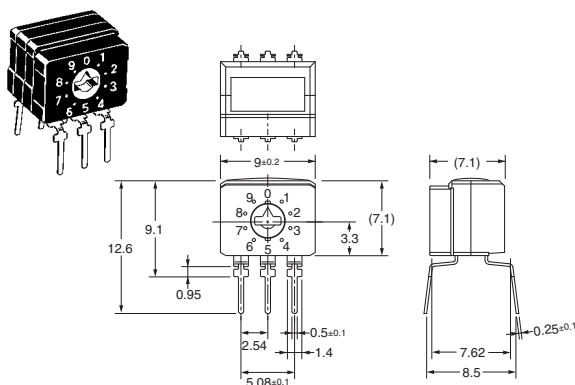
● Top Actuated, 16 Positions

A6C-16R (N)



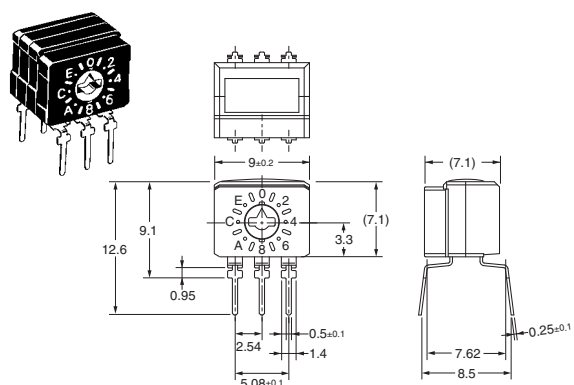
● Side Actuated, 10 Positions

A6CV-10R



● Side Actuated, 16 Positions

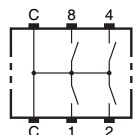
A6CV-16R



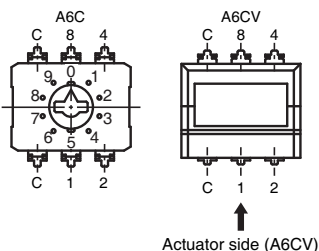
Note: Unless otherwise specified, a tolerance of ± 0.4 mm applies to all dimensions.

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

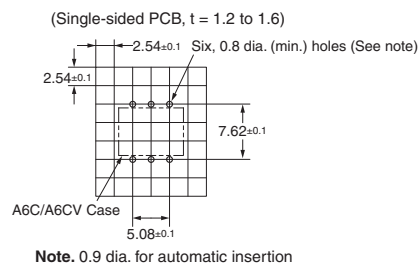
Contact Form (Top View)



Terminal arrangement



Mounting holes (top view)



Precautions

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

- Application examples provided in this document are for reference only. In actual applications, confirm equipment functions and safety before using the product.
- Consult your OMRON representative before using the product under conditions which are not described in the manual or applying the product to nuclear control systems, railroad systems, aviation systems, vehicles, combustion systems, medical equipment, amusement machines, safety equipment, and other systems or equipment that may have a serious influence on lives and property if used improperly. Make sure that the ratings and performance characteristics of the product provide a margin of safety for the system or equipment, and be sure to provide the system or equipment with double safety mechanisms.

Note: Do not use this document to operate the Unit.

OMRON Corporation

ELECTRONIC AND MECHANICAL COMPONENTS COMPANY

Contact: www.omron.com/ecb

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