

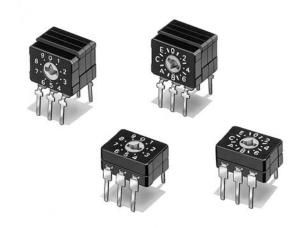
Rotay DIP Switch

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	A6C-10R (N)	100	A6CV-10R
16	BCD Hexadecimal	33	A6C-16R (N)	100	A6CV-16R

Note: Order in multiples of the package quantity.

■Ratings/Characteristics

Rating (resistive load)		0.1 A at 30 VDC 10 μA (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 MΩ 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		$300 \text{ m/s}^2 \text{ min.}$		
Durability	Electrical	2,000 steps min.		
Washing		Possible		
Degree of protection		Internally sealed (IEC IP64)		
Operating torque		0.98 × 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	BCD Decimal code				
Position	1	2	4	8	
0					
1	•				
2		•			
3	•	•			
4			•		
5	•		•		
6		•	•		
7	•	•	•		
8				•	
9	•			•	

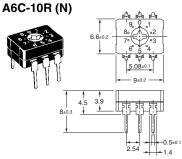
16-position Models

Code		BCD Hexadecimal code			
Position	1	2	4	8	
0					
1	•				
2		•			
3	•	•			
4			•		
5	•		•		
6		•	•		
7	•	•	•		
8				•	
9	•			•	
Α		•		•	
В	•	•		•	
С			•	•	
D	•		•	•	
E		•	•	•	
F	•	•	•	•	

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

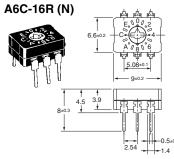
■Dimensions (Unit: mm)

● Top Actuated, 10 Positions



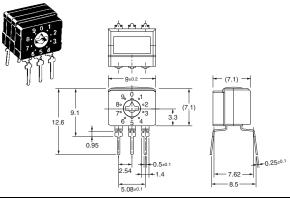


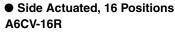
● Top Actuated, 16 Positions

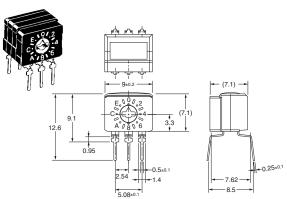




● Side Actuated, 10 Positions A6CV-10R





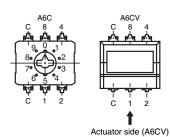


Note: Unless otherwise specified, a tolerance of ±0.4 mm applies to all dimensions.

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

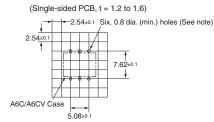
Contact Form (Top View)





Terminal arrangement

Mounting holes (top view)



Note. 0.9 dia. for automatic insertion

■Precautions

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

Contact: www.omron.com/ecb

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

OMRON Corporation

Electronic and Mechanical Components Company

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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.