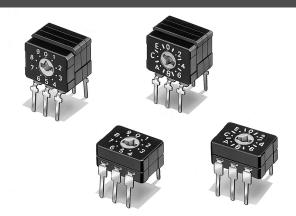
Sealed Rotary DIP Switch A6C/A6CV

Highly Reliable Subminiature DIP Switch

- A precise rotary cam and contact driving mechanism achieve compactness for high-precision mounting.
- Top-actuated and side-actuated models included in series.
- Insert-molded terminals and an O-ring sealed rotor combine to form a sealed construction equivalent to IP64 (IEC 60529) that prevents flux penetration and provides high contact reliability even in dusty locations and locations where water is used.
- Offset between terminal pins and side of case allows simple circuit inspection
- RoHS Compliant



Ordering Information

		Pa	art numbers
		Top actuated	Side actuated
Output code No. of positions			
BCD 1-2-4-8	10	A6C-10R(N)	A6CV-10R
BCD Hexadecimal 1-2-4-8	16	A6C-16R(N)	A6CV-16R

Important Note: Switches cannot be water-washed.

Specifications

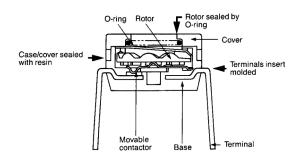
■ Characteristics

Switching capacity		100 mA at 30 VDC			
Minimum Permissible load		10 μA at 3.5 VDC min.			
Contact resistance		200 M Ω max.			
Insulation resistance		100 M Ω min. (at 250 VDC)			
Dielectric strength		250 VAC for 1 minute between terminals			
Operating torque		100 g-cm (0.98 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/s² (30 G) min.			
Ambient operating temperature		-20° to 70°C at 60% RH max. (with no icing or condensation)			
Ambient operating humidity		35% to 95% RH (at 5 to 35°C)			
Service life	Mechanical	10,000 detent operations min.			
	Electrical	2,000 detent operations min.			
Weight		Top-actuated: Approx. 0.4 g Side-actuated: Approx. 0.8 g			

Note: Data shown are of initial value.

■ Construction

The movable contactor is moved as the rotor rotates. The terminals are insert molded into the base. The rotor is secured by an O-ring and the case and the cover are made of plastic resin. Therefore, the internal mechanism is effectively sealed.



■ Output Codes

10-position Models

Туре	BCD 1-2-4-8			
Terminal No.	1	2	4	8
Position				
0				
1	•			
2		•		
3	•	•		
4			•	
5	•		•	
6		•	•	
7	•	•	•	
8				•
9	•			•

16-position Models

TO POSITION MODELS						
Туре	BCD/hexadecimal 1-2-4-8					
Terminal No.	1	2	4	8		
Position	_					
0						
1	•					
3		•				
3	•	•				
4			•			
5	•		•			
6		•	•			
7	•	•	•			
8				•		
9	•			•		
Α		•		•		
В	•	•		•		
С			•	•		
D	•		•	•		
E		•	•	•		
F	•	•	•	•		

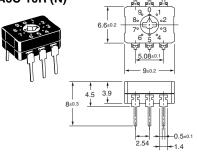
Note: "•" indicates that the internal switch is ON.

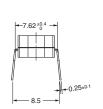
Dimensions

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

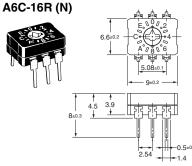
2. Unless otherwise specified, a tolerance of ± 0.4 mm applies to all dimensions.

■ Top Actuated, 10 Positions A6C-10R (N)



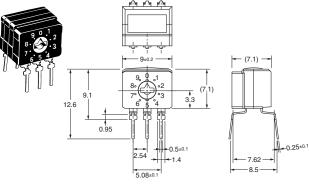


■ Top Actuated, 16 Positions

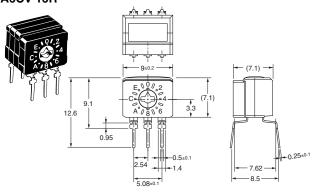




■ Side Actuated, 10 Positions A6CV-10R



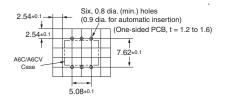
■ Side Actuated, 16 Positions A6CV-16R



Terminal arrangement (bottom view)

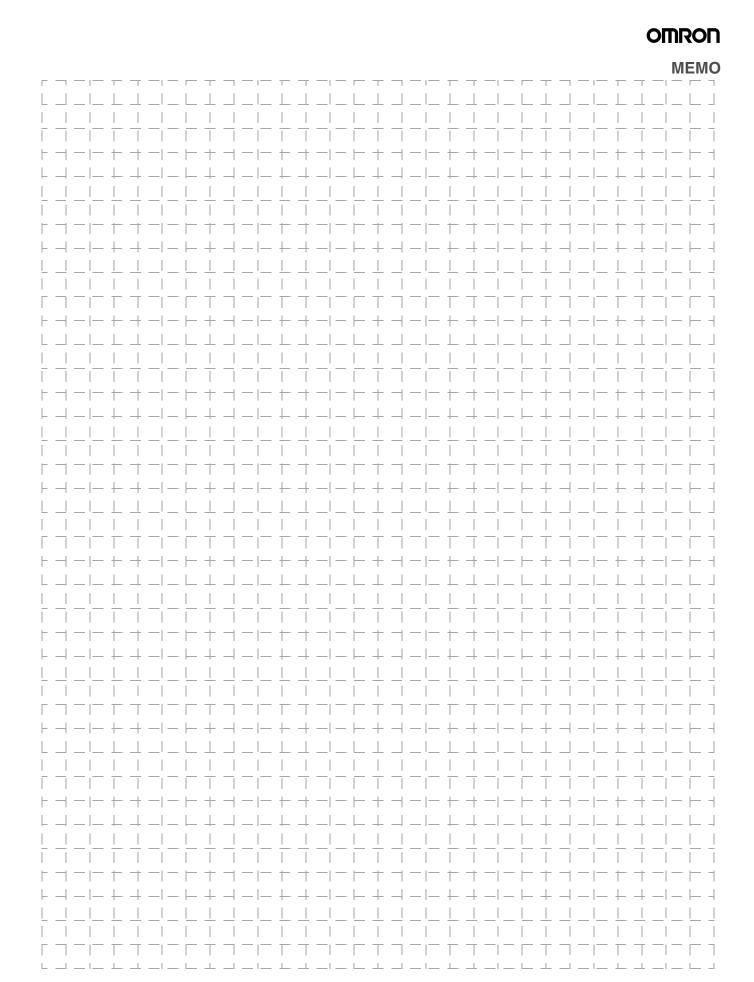


Mounting holes (Top view)



Internal connections (top view)







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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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