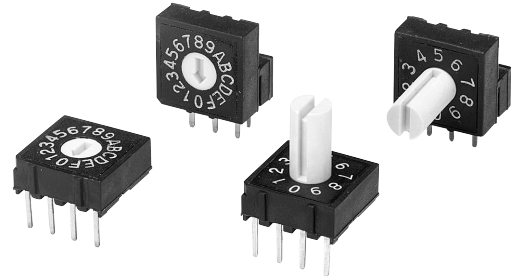


Rotary DIP Switch

A6R/A6RV

Through-hole mounting Rotary DIP Switches

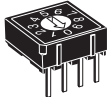
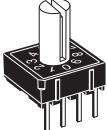
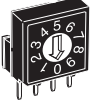
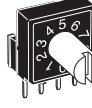
- Top/Side-actuated, and Flat/Extended-actuator models available.
- Actuator with an O-ring sealed structure prevents the ingress of dirt and dust.
- Two different terminal arrangements allow the flexibility of circuit design.



RoHS Compliant

Ordering Information

■List of Models

				Type (actuator color)			
				Top-actuated, flat (white)	Top-actuated, extended actuator (white)	Side-actuated, flat (white)	Side-actuated, extended actuator (white)
Number of positions	Quantity per tube	Terminal arrangement	Output code				
10	48	4 × 1	BCD Decimal	A6R-101RF	A6R-101RS	A6RV-101RF	A6RV-101RS
		3 × 3		A6R-102RF	A6R-102RS	A6RV-102RF	A6RV-102RS
16	48	4 × 1	BCD Hexadecimal	A6R-161RF	A6R-161RS	A6RV-161RF	A6RV-161RS
		3 × 3		A6R-162RF	A6R-162RS	A6RV-162RF	A6RV-162RS

Note: Order in multiples of the package quantity.

Specifications

■Ratings/Characteristics

Rating	25 mA at 24 VDC, 10 μA (minimum current) at 3.5 VDC
Ambient operating temperature	-25 to 80°C 60%RH max. (with no icing or condensation)
Ambient operating humidity	35% to 95% (at 5 to 35°C)
Insulation resistance	100 MΩ min. (at 250 VDC)
Contact resistance	200 mΩ max. (initial value)
Dielectric strength	250 VAC for 1 min between terminals
Vibration resistance	Malfunction: 10 to 55 Hz, 1.5-mm double amplitude
Shock resistance	Malfunction: 300 m/s ² min.
Durability	Electrical: 5,000 steps min.
Operating torque	1.96 × 10 ⁻² N·m {2 gf·m} max.
Weight	Top-actuated: Approx. 0.6 g Side-actuated: Approx. 0.8 g (Add 0.13 g for the extended-actuator type of each model.)

■Output Codes

10-position Models

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

16-position Models

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

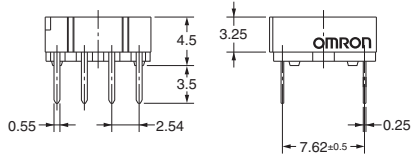
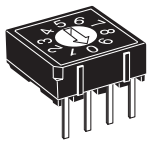
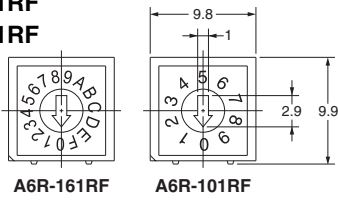
Note: "●" indicates that the internal switch is ON.

Dimensions

Note: 1. All units are in millimeters unless otherwise indicated.
 2. Unless otherwise specified, a tolerance of ± 0.4 mm applies to all dimensions.

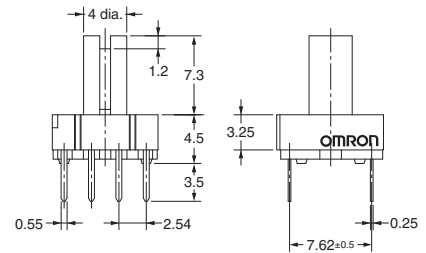
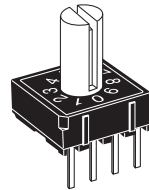
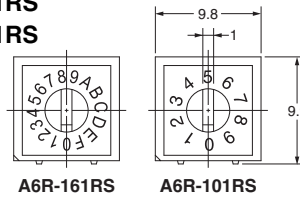
● **Top-actuated Flat Models with 4×1 Terminal Arrangement**

A6R-101RF
A6R-161RF



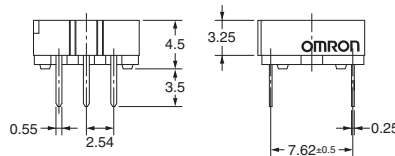
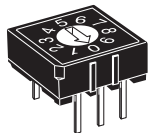
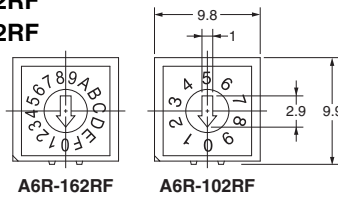
● **Top-actuated Extended-actuator Models with 4×1 Terminal Arrangement**

A6R-101RS
A6R-161RS



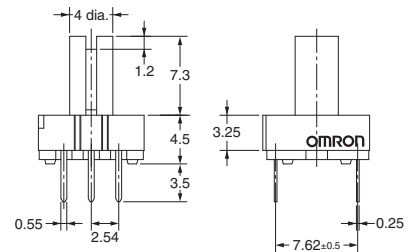
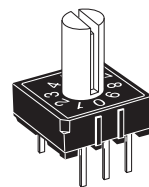
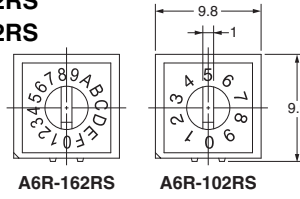
● **Top-actuated Flat Models with 3×3 Terminal Arrangement**

A6R-102RF
A6R-162RF



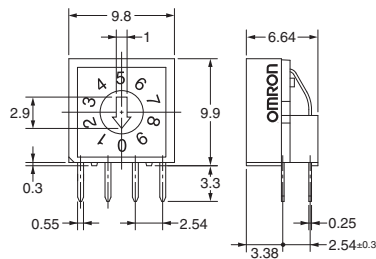
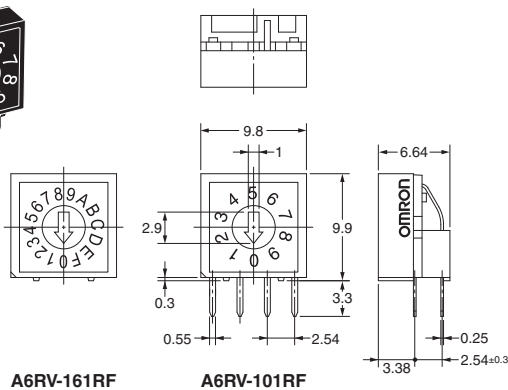
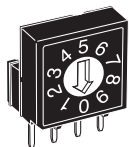
● **Top-actuated Extended-actuator Models with 3×3 Terminal Arrangement**

A6R-102RS
A6R-162RS



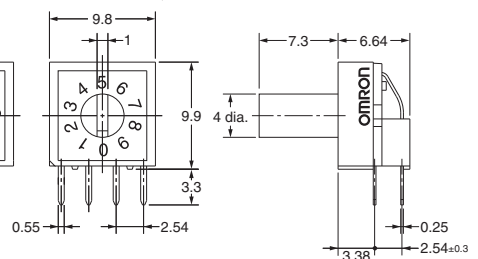
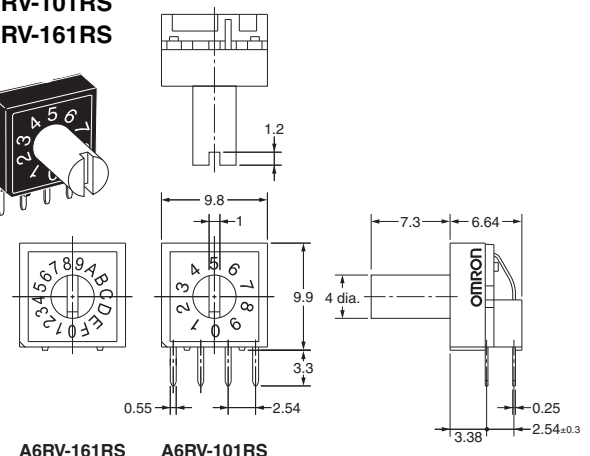
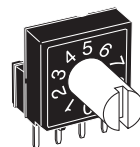
● **Side-actuated Flat Models with 4×1 Terminal Arrangement**

A6RV-101RF
A6RV-161RF



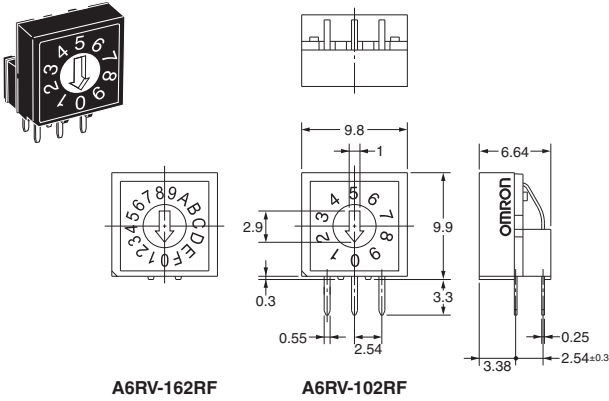
● **Side-actuated Extended-actuator Models with 4×1 Terminal Arrangement**

A6RV-101RS
A6RV-161RS



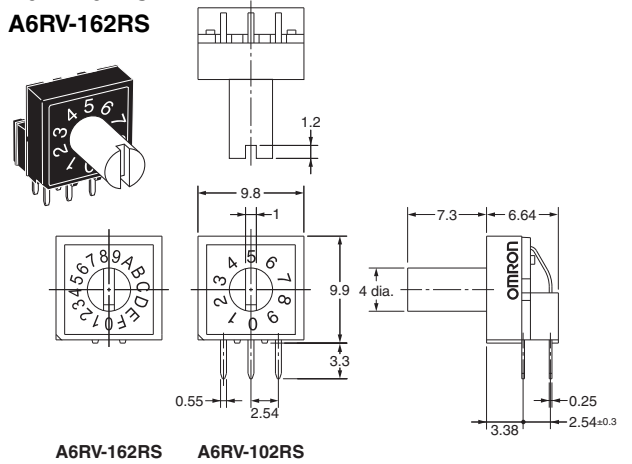
● Side-actuated Flat Models with 3×3 Terminal Arrangement

A6RV-102RF
A6RV-162RF



● Side-actuated Extended-actuator Models with 3×3 Terminal Arrangement

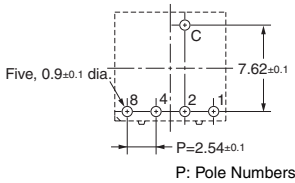
A6RV-102RS
A6RV-162RS



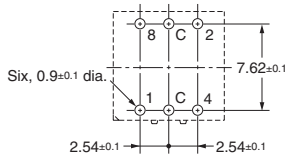
■ PCB Dimensions

● Top-actuated Models

4×1 Terminal Arrangement

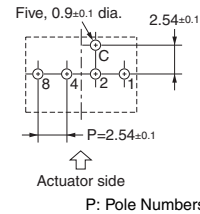


3×3 Terminal Arrangement

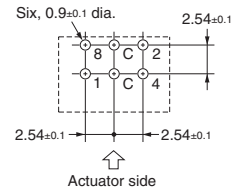


● Side-actuated Models

4×1 Terminal Arrangement



3×3 Terminal Arrangement

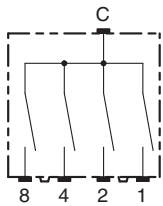


Internal Connections

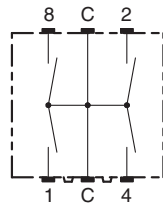
■ Contact Form

● Top-actuated Models

4×1 Terminal Arrangement

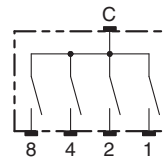


3×3 Terminal Arrangement

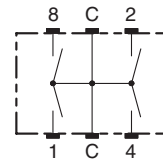


● Side-actuated Models

4×1 Terminal Arrangement



3×3 Terminal Arrangement



Precautions

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

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.
To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.