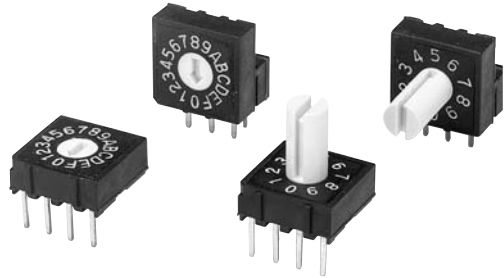


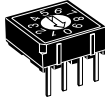
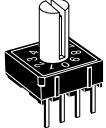
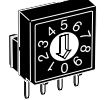
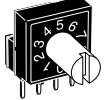
Low-cost Rotary DIP Switches

- ROHS compliant.
- Series includes top-actuated, side-actuated, flat, and extended-shaft models.
- The rotor has an O-ring sealed construction that prevents the ingress of dirt and dust.
- Two different types of terminal arrangement are available for each model to allow flexibility in the circuit design.



Ordering Information

■ List of Models

Type				Top-actuated, flat (White) (White)	Top-actuated, extended shaft	Side-actuated, flat (White) (White)	Side-actuated, extended shaft
Appearance							
No. of Positions	Quantity per stick	Terminal Arrangement	Output Code				
10	48	4 x 1	BCD/hexadecimal 1-2-4-8 code	A6R-101RF	A6R-101RS	A6RV-101RF	A6RV-101RS
		3 x 3	BCD/hexadecimal 1-2-4-8 code	A6R-102RF	A6R-102RS	A6RV-102RF	A6RV-102RS
16	48	4 x 1	BCD/hexadecimal 1-2-4-8 code	A6R-161RF	A6R-161RS	A6RV-161RF	A6RV-161RS
		3 x 3	BCD/hexadecimal 1-2-4-8 code	A6R-162RF	A6R-162RS	A6RV-162RF	A6RV-162RS

Note: Switches are delivered in units of 48. Orders must be made in multiples of 48.

Specifications

■ Rating/Characteristics

Rating	25 mA at 24 VDC
Ambient operating temperature	-25 to 70°C, at 60% maximum (with no icing or condensation)
Ambient operating humidity	35% to 95% (for +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 minute between terminals of the same polarity
Vibration resistance	Malfunction: 10 to 55 Hz, 1.5-mm double amplitude
Shock resistance	Malfunction: Approx. 300 m/s ²
Electrical life expectancy	5,000 steps min.
Operating torque	1.96 x 10 ⁻² N·m max.
Weight	4x1, top-actuated: 0.64 g 3x3, top-actuated: 0.62 g 4x1, side-actuated: 0.8 g 3x3, side-actuated: 0.83 g (Add 0.13 g for the extended-shaft version of each model.)

Output Code Tables

■ 10-position Models

Code	BCD/hexadecimal 1-2-4-8 code			
Position	1	2	4	8
0				
1	•			
2		•		
3	•	•		
4			•	
5	•		•	
6		•	•	
7	•	•	•	
8				•
9	•			•

■ 16-position Models

Code	BCD/hexadecimal 1-2-4-8 code			
Position	1	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

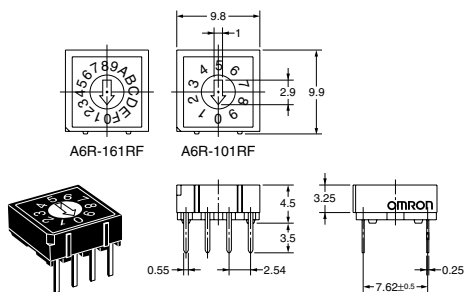
Note: 1. All units are in millimetres unless otherwise indicated.

2. A tolerance of ± 0.4 mm applies to the above dimensions unless otherwise specified.

Top-actuated Flat Models with 4x1 Terminal Arrangement

A6R-101RF

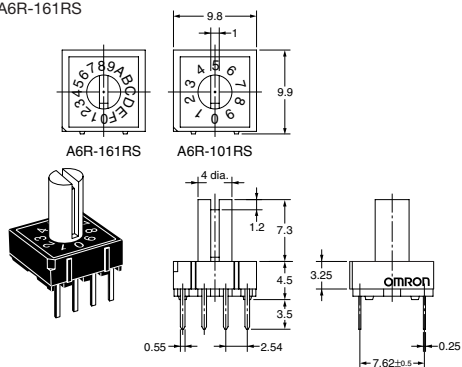
A6R-161RF



Top-actuated Extended-shaft Models with 4x1 Terminal Arrangement

A6R-101RS

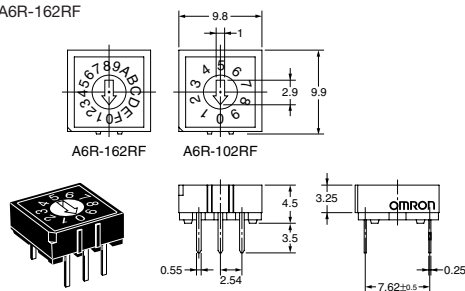
A6R-161RS



DIP Switch (Rotary Type) – A6R/A6RV

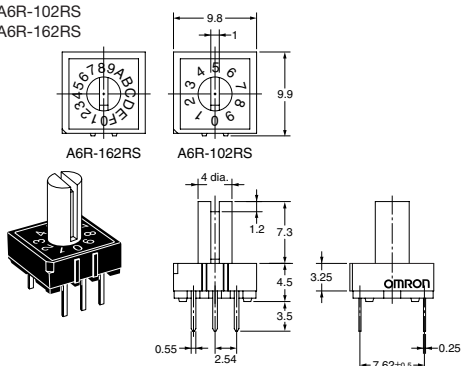
Top-actuated Flat Models with 3x3 Terminal Arrangement

A6R-102RF
A6R-162RF



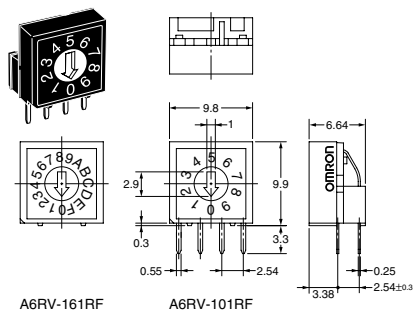
Top-actuated Extended-shaft Models with 3x3 Terminal Arrangement

A6R-102RS
A6R-162RS



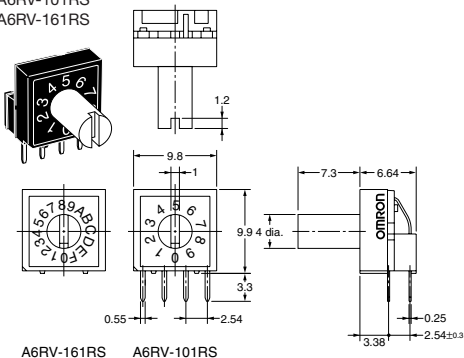
Side-actuated Flat Models with 4x1 Terminal Arrangement

A6RV-101RF
A6RV-161RF



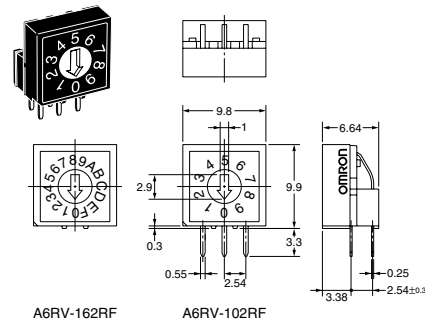
Side-actuated Extended-shaft Models with 4x1 Terminal Arrangement

A6RV-101RS
A6RV-161RS



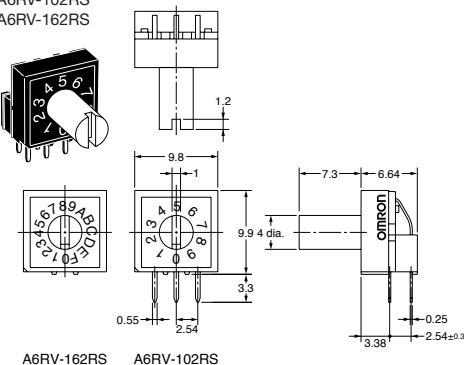
Side-actuated Flat Models with 3x3 Terminal Arrangement

A6RV-102RF
A6RV-162RF



Side-actuated Extended-shaft Models with 3x3 Terminal Arrangement

A6RV-102RS
A6RV-162RS

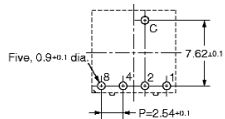


DIP Switch (Rotary Type) – A6R/A6RV

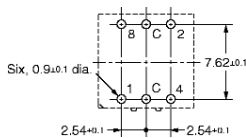
■ PCB Cutout Dimensions

Top-actuated Models

4x1 Terminal Arrangement

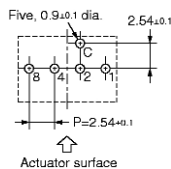


3x3 Terminal Arrangement

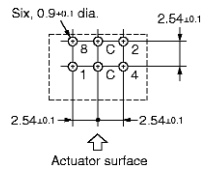


Side-actuated Models

4x1 Terminal Arrangement



3x3 Terminal Arrangement



ALL DIMENSIONS SHOWN ARE IN MILLIMETRES.

To convert millimetres into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.