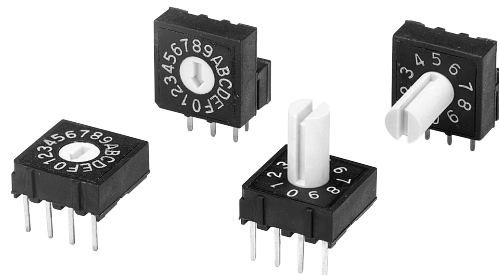


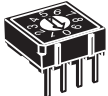
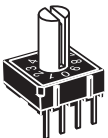
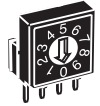
Rotary DIP Switch A6R/A6RV

Low-Cost Rotary DIP Switches

- 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 arrangements are available for each model to allow flexibility of circuit design.
- RoHS Compliant.



Ordering Information

Output code	Number of positions	Terminal arrangement	Top-actuated flat	Top-actuated extended shaft	Side-actuated flat	Side-actuated extended shaft
						
BCD 1-2-4-8	10	4 × 1	A6R-101RF	A6R-101RS	A6RV-101RF	A6RV-101RS
		3 × 3	A6R-102RF	A6R-102RS	A6RV-102RF	A6RV-102RS
BCD Hexadecimal 1-2-4-8	16	4 × 1	A6R-161RF	A6R-161RS	A6RV-161RF	A6RV-161RS
		3 × 3	A6R-162RF	A6R-162RS	A6RV-162RF	A6RV-162RS

Note: Switches are delivered in units of 48 per tube. Order in multiples of 48.

Specifications

■ Ratings/Characteristics

Switching Capacity	25 mA at 24 VDC
Min. Permissible Load	10 μ A at 3.5 VDC
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	200 g-cm max. (1.96 x 10 ⁻² N-m max.)
Vibration resistance	Malfunction: 10 to 55 Hz, 1.5-mm double amplitude
Shock resistance	Malfunction: 300 m/s ² (30G) min.
Ambient operating temperature	-25 to 80°C at 60% RH max. (with no icing or condensation)
Ambient operating humidity	35% to 95% (at 5 to 35°C)
Electrical service life	5,000 steps min.
Weight (See note 2)	Top-actuated: Approx. 0.6 g Side-actuated: Approx. 0.8 g

- Note:**
1. Data shown are of initial value.
 2. Add 0.13 g for the extended-shaft version of each model
 3. Switches cannot be water washed

■ Output Codes

10-position Models

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

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

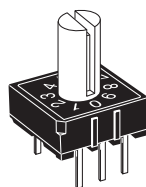
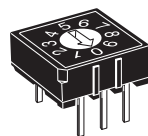
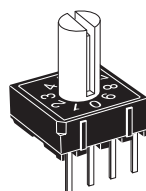
16-position Models

Type Terminal No. Position	BCD/hexadecimal 1-2-4-8			
	1	2	4	8
0				
1	●			
2		●		
3	●	●		
4			●	
5	●		●	
6		●	●	
7	●	●	●	
8				●
9	●			●
A		●		●
B	●	●		●
C			●	●
D	●		●	●
E		●	●	●
F	●	●	●	●

Top-actuated Flat Models with 4x1 Terminal Arrangement

A6R-161RS

A6R-101RS



Technical drawing of the Omron E6B2-CWZ6C photoelectric sensor. The drawing includes two views: a front view (left) and a side view (right). Dimensions are provided in millimeters.

Front View Dimensions:

- Top diameter: 4 Dia.
- Top section height: 1.2
- Section height below top: 7.3
- Section height below that: 4.5
- Section height below that: 3.5
- Bottom section width: 0.55
- Bottom section width: 2.54

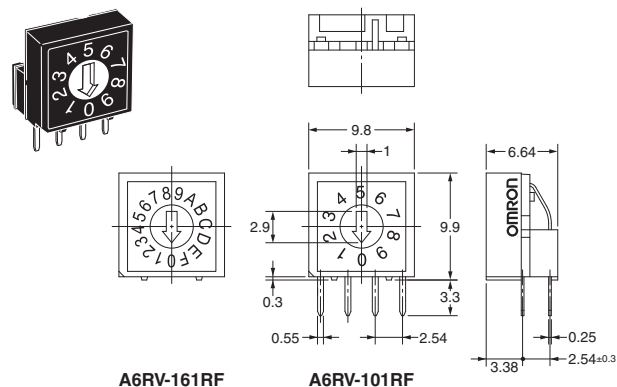
Side View Dimensions:

- Top section height: 3.25
- Omron logo is present on the side.
- Bottom section width: 7.62 ± 0.5
- Bottom section width: 0.25

The diagram shows a four-bar linkage mechanism. It consists of four links: a fixed frame (link 1), a crank (link 2), a coupler (link 4), and a follower (link 8). The joints are labeled 1, 2, 4, and 8. A contact point C is shown on the coupler link (link 4).

Side-actuated Flat Models with 4x1 Terminal Arrangement

A6RV-101RF
A6RV-161RF

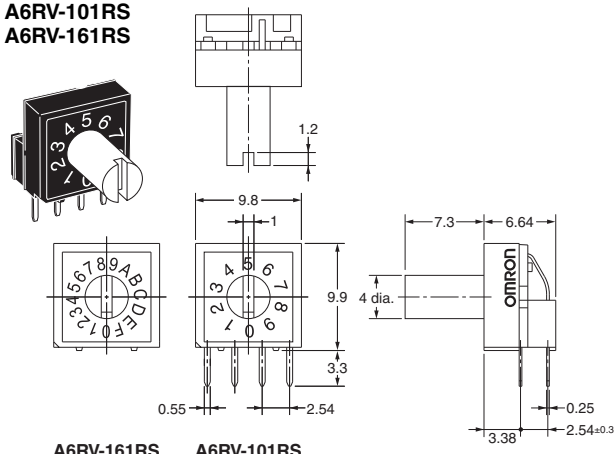


A6RV-161RF

A6RV-101RF

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

A6RV-101RS
A6RV-161RS

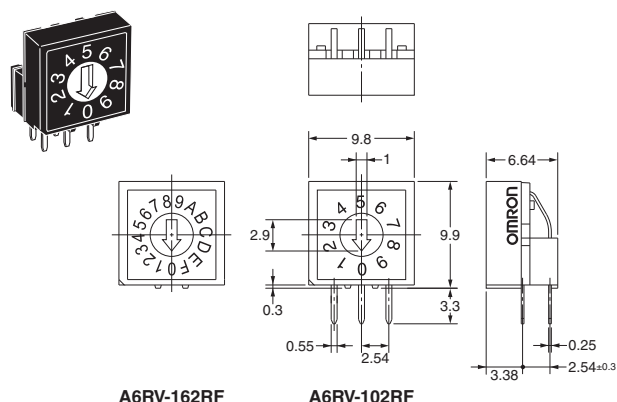


A6RV-161RS

A6RV-101RS

Side-actuated Flat Models with 3x3 Terminal Arrangement

A6RV-102RF
A6RV-162RF

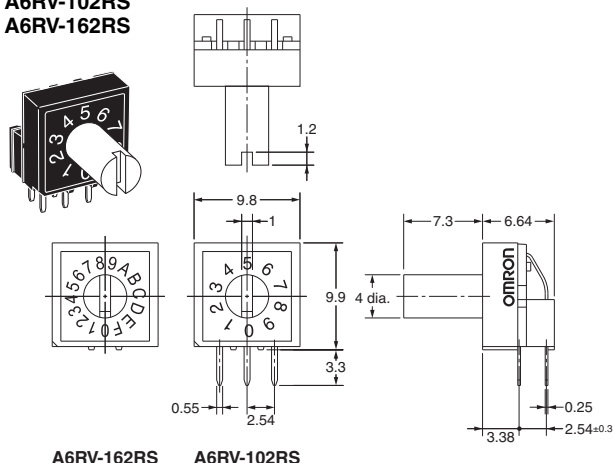


A6RV-162RF

A6RV-102RF

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

A6RV-102RS
A6RV-162RS

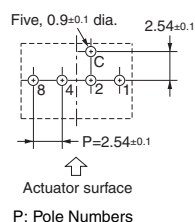


A6RV-162RS

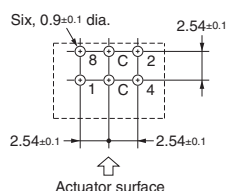
A6RV-102RS

Mounting holes Side-actuated models

4x1 Terminal

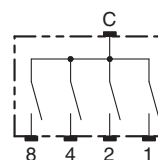


3x3 Terminal

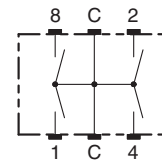


Internal connections Side-actuated models

4x1 Terminal



3x3 Terminal



All sales are subject to Omron Electronic Components LLC standard terms and conditions of sale, which can be found at http://www.components.omron.com/components/web/webfiles.nsf/sales_terms.html

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

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

OMRON[®]

**OMRON ELECTRONIC
COMPONENTS LLC**

55 E. Commerce Drive, Suite B
Schaumburg, IL 60173

847-882-2288

OMRON ON-LINE

Global - <http://www.omron.com>

USA - <http://www.components.omron.com>

Cat. No. X303-E-1

11/10

Specifications subject to change without notice

Printed in USA