imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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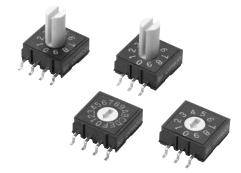


OMRON Rotary DIP Switch

Surface-mounting Rotary DIP Switches

- Improved solder heat resistance (reflow peak solder temperature: 260 °C).
- Flat/Extended-actuator models available.
- Two different terminal arrangements allow the flexibility.

RoHS Compliant



A6RS

■List of Models

Type (actuator color)			Top-actuated, flat (white)				Top-actuated, extended actuator (white)			
			Tube packaging		Embossed taping		Tube packaging		Embossed taping	
Number of positions	Terminal arrangement	Output code	Quantity per tube		Quantity per reel		Quantity per tube		Quantity per reel	
10	4 × 1	BCD Decimal	48	A6RS-101RF	750	A6RS-101RF-P	48	A6RS-101RS	250	A6RS-101RS-I
	3 × 3	DOD Decimal		A6RS-102RF		A6RS-102RF-P		A6RS-102RS		A6RS-102RS-F
16	4 × 1	BCD Hexadecimal		A6RS-161RF		A6RS-161RF-P		A6RS-161RS		A6RS-161RS-F
	3 × 3	DCD nexadecimal		A6RS-162RF		A6RS-162RF-P		A6RS-162RS		A6RS-162RS-I

Note: Order in multiples of the package quantity.

Ratings/Characteristics

Rating (resi	stive load)	25 mA at 24 VDC 10 μA (minimum current) at 3.5 VDC		
Ambient oper temperature	rating	-25 to +80°C at 60% max. (with no icing or condensation)		
Ambient oper humidity	rating	35% to 95% (at +5 to +35°C)		
Insulation res	sistance	100 $M\Omega$ 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 m/s ² min.		
Durability	Electrical	5,000 steps min.		
Washing		Not possible		
Degree of p	rotection	IEC IP60		
Operating torque		1.96×10^{-2} N·m {2 gf·m} max.		
Weight		Top-actuated: Approx. 0.6 g (Add 0.13 g for the extended-actuator type of each model.)		

■Output Codes

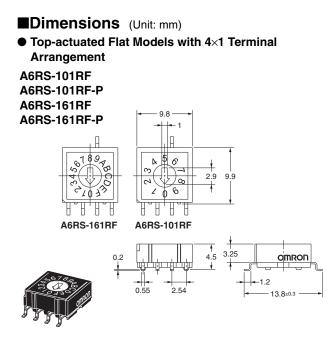
10-position Models

16-position Models

Code BCD Decimal code					
1	2	4	8		
٠					
	٠				
•	•				
		•			
٠		•			
	•	•			
•	•	•			
			•		
•			•		

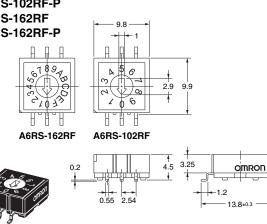
Code	BCD Hexadecimal code					
Position	1	2	4	8		
0						
1	•					
2		•				
3	•	•				
4			•			
5	•		•			
6		•	•			
7	•	•	•			
8				•		
9	•			•		
Α		•		•		
В	•	•		•		
C			•	•		
D	•		•	•		
E		•	•	•		
F	•	•	•	•		

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



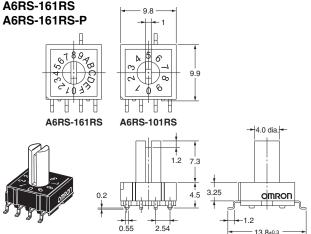
• Top-actuated Flat Models with 3×3 Terminal Arrangement



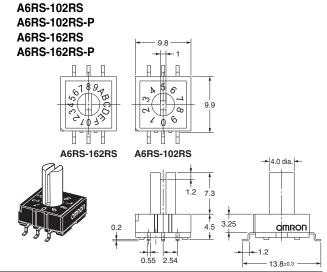


• Top-actuated Extended-actuator Models with 4×1 Terminal Arrangement

A6RS-101RS A6RS-101RS-P A6RS-161RS



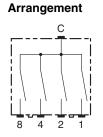
• Top-actuated Extended-actuator Models with 3×3 Terminal Arrangement



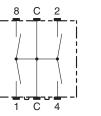
Note: Unless otherwise specified, a tolerance of ±0.4 mm applies to all dimensions.

Internal Connections Contact Form (Top View)

4×1 Terminal

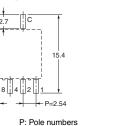


3×3 Terminal Arrangement



■PCB Dimensions (Top View)

4×1 Terminal Arrangement 3×3 Terminal Arrangement





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-2.54

Precautions

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

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.

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

OMRON Corporation

Electronic and Mechanical Components Company

Contact: www.omron.com/ecb

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