

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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









Miniature Rocker Switch

A8L

Miniature Rocker Switch for High Capacity Switching

- Withstands inrush currents up to 100 A with a unique switching mechanism.
- · Soft touch with firm switching action.
- Easy to mount by snap fitting.
- Contact gap of 3 mm minimum.
- UL and cUL standards approved. Conforms to EN standards.



RoHS Compliant



Caution

Refer to Precautions

■ List of Models

Contact Form		Contact Form 1 2					Quantity
	Terminals	Solder terminals	PCB terminals	Right-angled PCB terminals	Left-angled PCB terminals	Quick-connect terminals #187	per box
Color o	of caps and cases	Black	Black	Black	Black	Black	
Marking on caps	Without markings	A8L-11-11N1	A8L-11-12N1	A8L-11-13N1	A8L-11-14N1	A8L-11-15N1	
	0	A8L-11-11N2	A8L-11-12N2	A8L-11-13N2	A8L-11-14N2	A8L-11-15N2	
	0 -	A8L-11-11N3	A8L-11-12N3	A8L-11-13N3	A8L-11-14N3	A8L-11-15N3	300
	OFF.	A8L-11-11N6	A8L-11-12N6	A8L-11-13N6	A8L-11-14N6	A8L-11-15N6	

Contact Form				DPST 1 2 2 3 4			Quantity
	Terminals	Solder terminals	PCB terminals	Right-angled PCB terminals	Left-angled PCB terminals	Quick-connect terminals #187	per box
Color	of caps and cases	Black	Black	Black	Black	Black	
Marking on caps	Without markings	A8L-21-11N1	A8L-21-12N1	A8L-21-13N1	A8L-21-14N1	A8L-21-15N1	
	0	A8L-21-11N2	A8L-21-12N2	A8L-21-13N2	A8L-21-14N2	A8L-21-15N2	
	O -	A8L-21-11N3	A8L-21-12N3	A8L-21-13N3	A8L-21-14N3	A8L-21-15N3	300
	OH ON	A8L-21-11N6	A8L-21-12N6	A8L-21-13N6	A8L-21-14N6	A8L-21-15N6	

Note: Simple dust-proof models are available. Consult your OMRON representative.

■ Ratings

Rated load	Non-in	ductive	Inductive		
nateu loau	Resistive load	Lamp load	Inductive load	Inductive motor load	
125 VAC	10 A	10 A	8 A	8 A	
250 VAC	10 A	10 A	8 A	8 A	

Note: 1. The non-inductive lamp load has an inrush current 10 times steady current.

- 2. The inductive load has a power factor of 0.4 minimum (AC).
- 3. The motor load has an inrush current 6 times steady current.

The above ratings were tested under the following conditions:

- 1. Ambient temperature:20±2°C
- 2. Ambient humidity:65±5%RH
- 3. Switching frequency:7 times/min

■ Approved Safety Standards

UL, cUL (UL1054/CSA C22.2 No. 55)

10 A, 125 VAC; 10 A, 250 VAC

TÜV (EN61058-1)

10 (8) A, 250 VAC

■ Characteristics

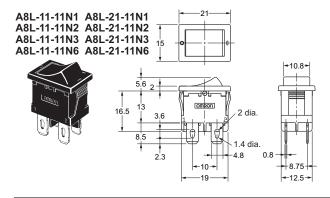
Permissible operating	Mechanical	20 operations/min max.	
frequency	Electrical	7 operations/min max.	
Insulation resistance		100 M Ω min. (at 500 VDC with insulation tester)	
Contact resistance (initial value)		100 mΩ max. (6 to 8 VDC, 1 A, voltage drop method)	
Dielectric strength	Between terminals of the same polarity	2,000 VAC, 50/60 Hz, for 1 min	
	Between terminals of the different polarity	2,000 VAC, 50/60 Hz, for 1 min	
	Between charged metal parts and the ground terminal	4,000 VAC, 50/60 Hz, for 1 min	
Vibration resistance Malfunction		10 to 55 Hz, 1.5-mm double amplitude	
Shock resistance	Malfunction	300 m/s^2	
Shock resistance	Destruction	500 m/s ²	
Durahiliha	Mechanical	50,000 operations min.	
Durability	Electrical	10,000 operations min.	
Inrush current		100 A max. (8.3 ms max.)	
Degree of protection		IEC IP40	
Ambient operating tempe	erature	−20 to +55°C (with no icing or condensation)	
Ambient operating humid	lity	45 to 85%RH	

Note: Consult your OMRON representative for details of performance characteristics with respect to individual standards.

■ Dimensions (Unit: mm)

Note: The following illustrations and drawings are for 2 poles (DPST) models, 1 pole (SPST) models have single side terminals.

Solder Terminals

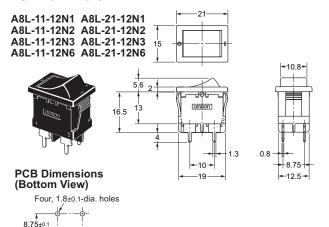


■ Operating Characteristics

No. of poles	1 (SPST)	2 (DPST)
Operating force(OE)	2.16±1.18 N	3.92±2.45 N
Operating force(OF)	{220±120 gf}	{400±250 gf}

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

PCB Terminals

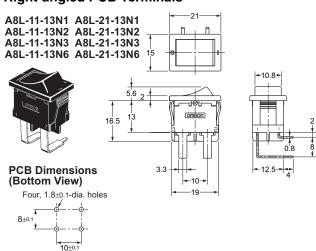


Operating Characteristics

No. of poles	1 (SPST)	2 (DPST)
Operating force(OF)	2.16±1.18 N	3.92±2.45 N
	{220±120 gf}	{400±250 gf}

Right-angled PCB Terminals

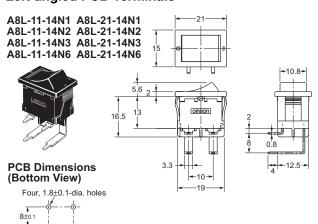
10±0.1



■ Operating Characteristics

No. of poles	1 (SPST)	2 (DPST)
Operating force(OF)	2.16±1.18 N	3.92±2.45 N
	{220±120 gf}	{400±250 gf}

Left-angled PCB Terminals

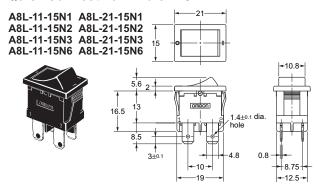


Operating Characteristics

No. of poles	1 (SPST)	2 (DPST)
Operating force(OF)	2.16±1.18 N	3.92±2.45 N
	{220±120 gf}	{400±250 gf}

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

Quick-connect Terminals #187



■ Operating Characteristics

No. of poles	1 (SPST)	2 (DPST)
Operating force(OF)	2.16±1.18 N	3.92±2.45 N
	{220±120 gf}	{400±250 gf}

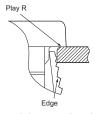
Note: Unless otherwise specified, a tolerance of ± 0.4 mm applies to all dimensions.

■ Panel Cutout



Panel thickness (mm)	X (mm)	Y (mm)
0.75 to 1.25	19.2 -0.1	12.9 +0.1
1.26 to 2.5	19.4+0.1	12.9 +0.1

Note: Recommended panel material: SPCC



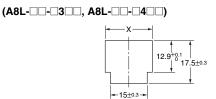
When processing the panel, be sure that the Play R is on the switch operation side.

Be sure that the Edge is on the reverse side of panel when processing.

■ Precautions

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

Panel Cutout for Angled PCB Terminals



Panel thickness (mm)	X (mm)
0.75 to 1.25	19.2 -0.1
1.26 to 2.5	19.4+0.1

TOL ————————————————————————————————————	\8L	OMRON	A8
--	-----	-------	-----------

Contact: www.omron.com/ecb

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

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.