

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		SPST 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	
	Without markings	A8L-11-11N1	A8L-11-12N1	A8L-11-13N1	A8L-11-14N1	A8L-11-15N1	
Marking on caps	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 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	
	Without markings	A8L-21-11N1	A8L-21-12N1	A8L-21-13N1	A8L-21-14N1	A8L-21-15N1	
Marking on caps	0 1	A8L-21-11N2	A8L-21-12N2	A8L-21-13N2	A8L-21-14N2	A8L-21-15N2	
	0 -	A8L-21-11N3	A8L-21-12N3	A8L-21-13N3	A8L-21-14N3	A8L-21-15N3	300
	O 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-inductive		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 (UL61058-1)/cUL (CSA C22.2 No.61058-1)

10 A, 125 VAC; 10 A, 250 VAC

TÜV (EN61058-1)

10 (8) A, 250 VAC

■ Characteristics

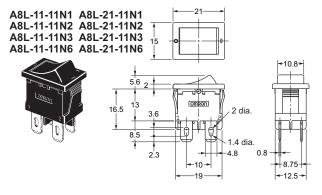
Permissible operating	Mechanical	20 operations/min max.
frequency	Electrical	7 operations/min max.
Insulation resistance		100 M Ω min. (at 500 VDC with insulation tester)
Contact resistance (initial value)		100 mΩ max. (6 to 8 VDC, 1 A, voltage drop method)
	Between terminals of the same polarity	2,000 VAC, 50/60 Hz, for 1 min
Dielectric strength	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
Durahilitu	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 temperature		-20 to +55°C (with no icing or condensation)
Ambient operating humidity		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

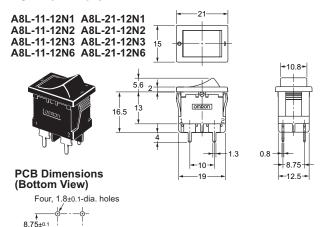


■ Operating Characteristics

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

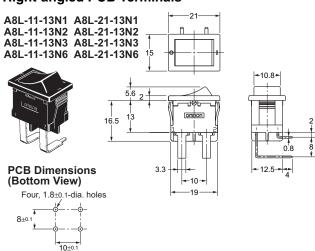


Operating Characteristics

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

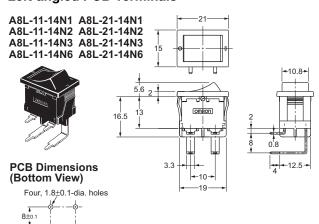
10±0.1



■ 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

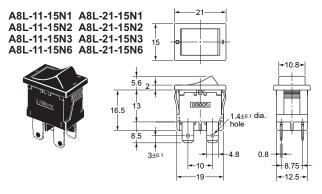


■ Operating Characteristics

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}

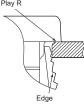
Note: Unless otherwise specified, a tolerance of ± 0.4 mm applies to all dimensions.

■ 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} _{-0.3}	12.9 +0.1

Note: Recommended panel material: SPCC



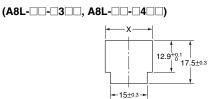
When processing the panel, be sure that the Play R is on the switch operation side.

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} _{-0.3}

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