OMRON

Rocker Switch

A8A

Safety-considered Power Rocker Switch

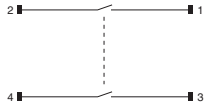
- Low heat radiation with a Unique leaf spring mechanism.
- Positive-opening mechanism incorporated.
- AC operated Neon lamp illumination models available.
- Contact gap of 3 mm minimum.
- Variety of color models available
- UL and CSA standards approved. Conforms to EN standard.



⚠ Caution
Refer to Precautions

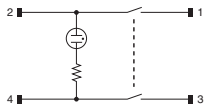
■List of Models

● Non-illuminated Models

Contact Form					Quantity per box
Color of cases		White	Black	Gray	
Color of caps	White	A8A-201	A8A-201-1	-	50
	Red	A8A-202	A8A-202-1	A8A-202-2	
	Green	A8A-203	A8A-203-1	A8A-203-2	
	Blue	A8A-204	A8A-204-1	-	
	Yellow	A8A-205	A8A-205-1	-	
	Black	A8A-207	A8A-207-1	A8A-207-2	

Note: Marking of Non-illuminated Models
The cap of the above mentioned models is without marking.
Models with I O marking is with suffix "-□F" such as A8A-201-F and A8A-201-1F.
Models with − O marking is with suffix "-□D" such as A8A-201-D and A8A-201-1D.
Consult your Omron sales representative for details.

● Illuminated Models

Contact Form								Quantity per box
Rated voltage		100 VAC			200 to 220 VAC			
Color of cases		White	Black	Gray	White	Black	Gray	
Color of caps	Red	A8A-212	A8A-212-1	A8A-212-2	A8A-222	A8A-222-1	A8A-222-2	50
	Green	A8A-213	A8A-213-1	A8A-213-2	A8A-223	A8A-223-1	A8A-223-2	
	Orange	A8A-216	A8A-216-1	A8A-216-2	A8A-226	A8A-226-1	A8A-226-2	

Note: Marking of illuminated Models
The cap of the above mentioned models is without marking.
Models with I O marking is with suffix "-□A" such as A8A-212-A and A8A-212-1A.
Models with − O marking is with suffix "-□G" such as A8A-212-G and A8A-212-1G.
Consult your Omron sales representative for details.

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■Ratings

Rated load	Non-inductive		Inductive	
	Resistive load	Lamp load	Inductive load	Inductive motor load
125 VAC	16A	10A	16A	16A
250 VAC	16A	10A	8A	16A

Note: 1. The above value shows steady current.
2. The inductive load has a power factor of 0.4 min (AC) and a time constant of 7 ms min (DC).
3. Lamp load has an inrush current of 10 times the steady current.
4. Motor load has an inrush current of 6 times the steady current.
5. The above ratings were tested under the following conditions:
(1) Ambient temperature: 20±2 °C
(2) Ambient humidity: 65±5 %RH
(3) Switching frequency: 20 times/min.

■Neon lamps

Models	Rated voltage	Rated current
A8A-21□-□	100 VAC	1.5 mA
A8A-22□-□	200 to 220 VAC	1.5 mA

Note: 1. Life expectancy: 15,000 Hr min.
2. Lamp is not exchangeable.

■Approved Safety Standards

UL (UL508)

16A 125 VAC, 16A 250 VAC

CSA (CSA C22.2 No.55)

16A 125 VAC, 16A 250 VAC

VDE (EN61058-1)

16A 250 VAC

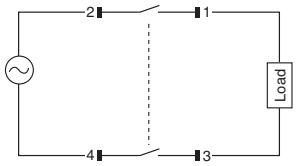
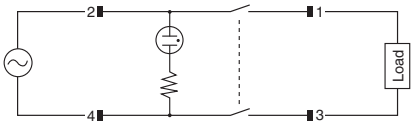
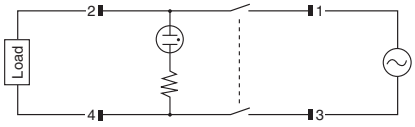
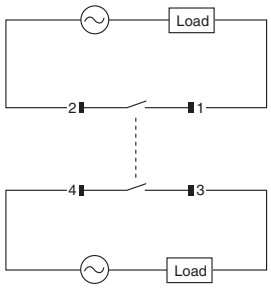
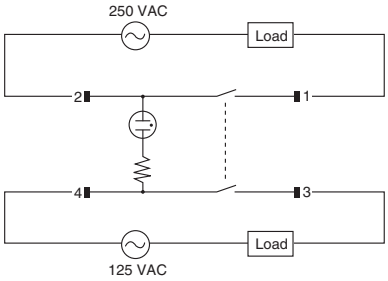
■Characteristics

Permissible operating speed		1 to 500 mm/s
Permissible operating frequency	**Mechanical**	30 operations / min max.
	Electrical	20 operations / min max.
Insulation resistance		100 MΩ min. (at 500 VDC with insulation tester)
Contact resistance (initial value)		20 mΩ max. (6 to 8 VDC, 1 A, voltage drop method)
Dielectric strength	**Between terminals of the same polarity**	2.000 VAG, 50/60 Hz, for 1 min
	Between terminals of the different polarity	2.000 VAG, 50/60 Hz, for 1 min (See Note *)
	Between charged metal parts and the ground terminal	4.000 VAG, 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 max.
Durability	**Mechanical**	40,000 operations min.
	Electrical	20,000 operations min.
Weight		Non-illuminated: Approx 15g. Illuminated: Approx 16g.
Inrush current		100A max. (100 ms max.)
Ambient operating temperature		- 25 to +50 °C (with no icing or condensation)
Ambient operating humidity		45 to 85 %RH
Degree of protection		IEC IP40
Electric shock protection class		Class II
PTI (proof tracking index)		175
Pollution degree		2

Note: For the condition in individual standard, contact your OMRON sales representative.
* Condition in the Neon lamp illuminated models are excluded.

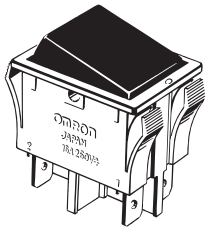
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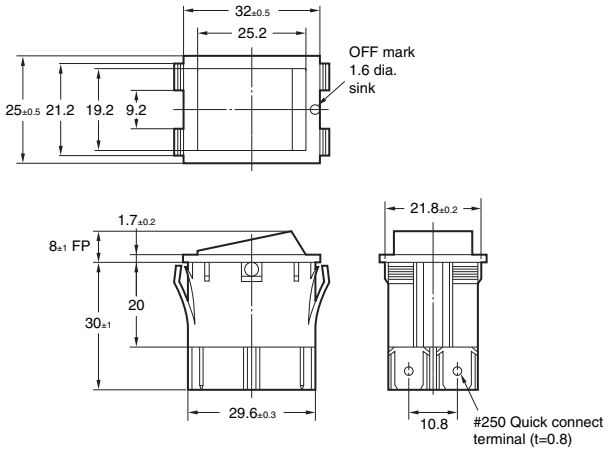
■Operating Circuit

	Non-illuminated Models	Neon lamp illuminated Models
Correct wiring	Fig. A 	Fig. C Illuminated in accordance with power source  Fig. D Illuminated in accordance with switch-on 
Incorrect wiring	Fig. B 	Fig. E 
Note	**1.** Do not apply any different voltage between the couple of terminals 1- 2, and 3- 4. **2.** Safety standards approved for the figures A, C, and D.	

■Dimensions (Unit: mm)

A8A



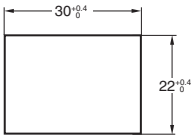


■Operating Characteristics

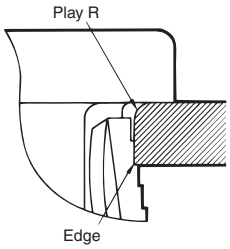
Operating force (OF) max.	19.6 N {2,000 gf}
Free Position (FP)	8±1 mm
Operating Position (OF)	5±1 mm

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

■Panel Cutout



Note: Recommended panel thickness:
1.0 to 3.0 mm.



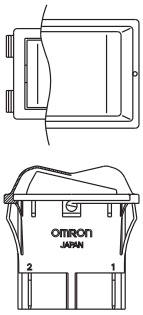
When processing the panel, be sure that the Play R is on the switch operation side.
Be sure that the Edge is on the reverse side of panel when processing.

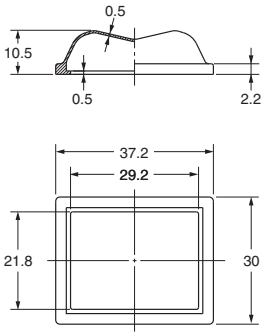
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■Optional Accessories (Sold separately)

Rubber cap for high dustproof.

A8A RUBBER CAP





Cendition the cap on Switch

■Precautions

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

Please check each region's Terms & Conditions by region website.

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Device & Module Solutions Company

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