

Miniature Rocker Switch

A8M

Miniature Rocker Switch for High Current Switching

- Miniature Rocker Switch can be switching 16A.
- Easy to mount by snap fitting.
- UL and cUL standard approved.
Conforms to EN standards.

RoHS Compliant (Refer to page 3 for details)

 **Caution**
Refer to Precautions



NEW

Ordering Information

Contact configuration		SPST	DPST	Quantity per package
Color of caps and cases		Black	Black	
Marking on caps	I	A8MS-1162	A8MD-1162	100
	-	A8MS-1163	A8MD-1163	

Ratings

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

Note: 1. The inductive load has a power factor of 0.7 minimum (AC).
 2. The motor load has an impulse current 6 times the normal current.
 3. 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.

Operating Characteristics

No. of poles	1	2
OF (operating force)	8 N max.	14 N max.

Specifications

Permissible operating frequency	Mechanical	20 Operations / min max.
	Electrical	7 Operations / min max.
Insulation resistance		100 MΩ min. (500 VDC)
Dielectric strength		2000 VAC 50/60Hz, for 1min between terminals of the same polarity 4000 VAC 50/60Hz, for 1min between terminal and case ground.
Vibration resistance	Malfunction	10 to 55 Hz, 1.5-mm double amplitude
Shock resistance	Malfunction	1000 m/s ² max.
Life expectancy	Mechanical	50,000 Operations min.
	Electrical	10,000 Operations min.
Ambient operating temperature		- 25 to 55 °C humidity 60 %RH max. (With no icing or dewing)
Ambient operating humidity		25 to 85 %RH (for 15 to 35 °C)
Ambient storage temperature		- 40 to 85 °C (With no icing or dewing)
Ambient storage humidity		25 to 85 %RH
Weight		4.5 g (1 pole), 5.9 g (2 poles)

Approved Safety Standards

■UL (UL1054/CSA C22.2 No. 55)

16A 125 VAC, 16A 250 VAC

■VDE (EN61058-1)

16A 125 VAC, 16A 250 VAC

Note: Quick-connect Terminals are not in compliance with IEC standards.

Dimensions

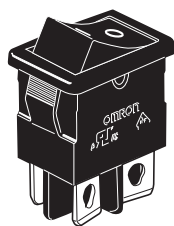
(unit: mm)

A8MS-1162

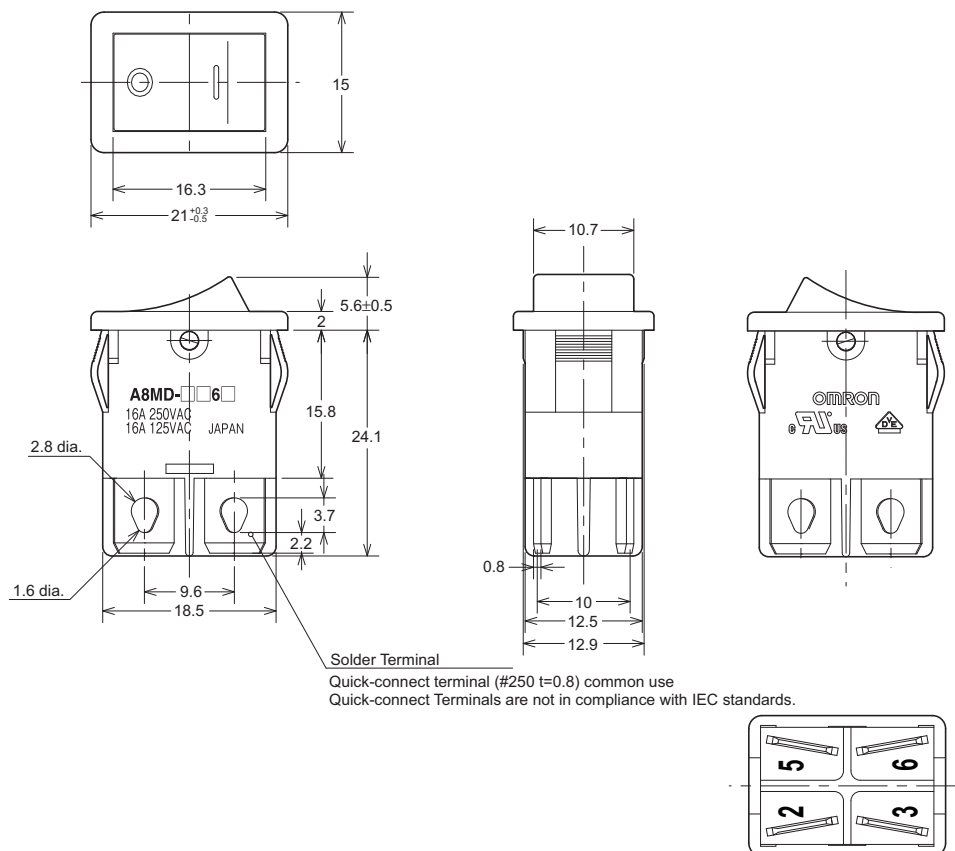
A8MS-1163

A8MD-1162

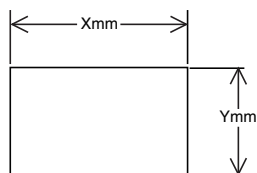
A8MD-1163



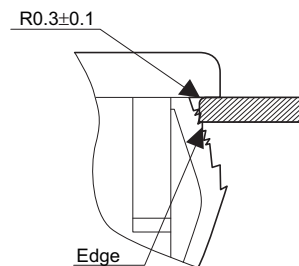
Note: Unless otherwise specified, a tolerance of ± 0.3 mm applies to all dimensions.



Panel Cutout



Panel thickness (mm)	X (mm)	Y (mm)
0.75 to 1.25	19.2 $^{+0.1}_{-0}$	12.9 $^{+0.1}_{-0}$
1.26 to 2.00	19.4 $^{+0.1}_{-0}$	
2.01 to 3.00	19.8 $^{+0.1}_{-0}$	



Be sure that play R or above-mentioned R is the operation side.

Precautions

Caution

Do not wire the Switch or touch any terminal of the Switch While power is being supplied. Doing so may result in electric shock.

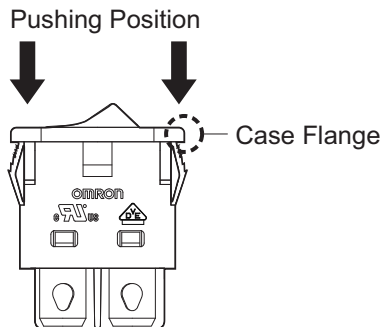


To increase the reliability of operation, test the Switch before actual operation.

Be sure that there is an enough insulation distance between any Switch terminal and metal part.

Mounting

- Turn OFF the power supply before mounting, removing or wiring the Switch, or before performing maintenance inspections. Failure to do so may result in electric shock.
- Easy to mount by snap fitting.
- Do not use panels other than ones with the designated thickness and dimensions. Remove all burrs from the cutout before installing the Switch. Otherwise, the Switch may malfunction.
- Do not impose excessive force on the Switch at the time of panelmounting. Otherwise the Switch may be damaged or deformed, and the Switch mechanism may malfunction as a result.



Wiring

- When soldering terminals manually, perform soldering within 4 s using a soldering iron (temperature at the tip of the soldering iron: 360 °C max). Do not apply excessive force to the terminals during soldering.
- Quick-connect Terminals (#250 t=0.8) are not in compliance with IEC standards. Suitable for use as solder connection.
- Be sure that the wires are thick enough for the load (current) to be applied.
- The performance of the Switch may be affected if the Switch is used for switching micro loads. Test the Switch under the actual operating conditions.

Environment for Storage and Use

- Do not use the Switch in places with sulfide gas, corrosive gas, sea breeze, oil spray, or direct sunlight. Otherwise, the Switch may malfunction.
- Do not use the Switch in places that are visibly dusty. Otherwise, the contacts may fail to operate correctly.
- The Switches are not sealed, cannot prevent to enter dust particles and liquid perfectly. Test the Switch under the actual operating conditions before use.

Handling

- Do not drop the Switch. Otherwise, the Switch may malfunction.
- Do not impose excessive force on the Switch. Otherwise, the Switch may deform.
- Use the Switch within the rated voltage and current ranges, otherwise the Switch may have a shortened life expectancy, radiate heat, burn out or malfunction.
- Do not impose force to operating part from an angle, otherwise the Switch may be damaged or deformed.

RoHS Compliant

The "RoHS Compliant" designation indicates that the listed models do not contain the six hazardous substances covered by the RoHS Directive.

Reference: The following standards are used to determine compliance for the six substances.

Lead	: 1000 ppm max.
Mercury	: 1000 ppm max.
Cadmium	: 100 ppm max.
Hexavalent chromium	: 1000 ppm max.
PBB	: 1000 ppm max.
PBDE	: 1000 ppm max.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.
To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

Cat. No. A175-E1-01 In the interest of product improvement, specifications are subject to change without notice.

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