

Precautions

⚠ Caution

Do not wire the Switch or touch any terminal of the Switch while power is being supplied. Or it may result in electric shock.

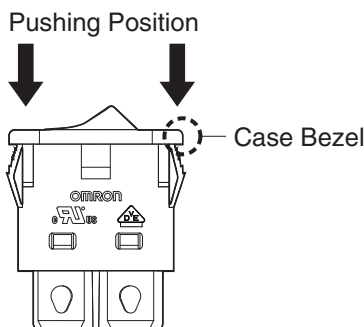


To increase the reliability of operation, test the Switch before actual operation.

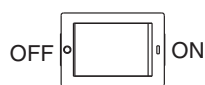
Be sure that there is an enough insulation distance between any Switch terminal and metal part.

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.



- There are two small sink in the the Bezel part of the case marking ON and OFF of Type A8L Switch as shown in the following diagram. Use these marks as guides for mounting.



Wiring

- 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.
- Type A8L Switch

When soldering terminals manually, perform soldering within 3 s using a 60-W soldering iron (temperature at the tip of the soldering iron: 420°C max.). Do not apply excessive force to the terminals during soldering.

When soldering using a soldering tub, perform soldering within 5 s in a soldering fluid at 270°C, or within 3 s in a soldering fluid at 350°C.

Only A8L-□□-□5□□ models are equipped with (4.8 × t=0.8) mm fiat-quick connections for use with #187 fasten receptacles.

The terminals of A8L-□□-□1□□ are not in compliance with IEC standards for fiat-quick connections. Suitable for use as solder connection only.

- Type A8M, A8N, and A8W Switches

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.

#250 Quick connect terminals (t=0.8) are not in compliance with IEC standards. Suitable for use as solder connection.

- Type A8G Switch

Wire the contact terminals with #250 receptacles and the coil terminals with #110 receptacles. Insert the terminals straight into the receptacles. The insertion force varies with the receptacle. Test the insertion force of each receptacle under the actual operating conditions.

Do not solder the terminals, otherwise the performance of the terminals may be affected.

Do not energize coil terminals for more than 10 s, otherwise the performance of the coil may be affected.

Each coil terminal has a polarity. When wiring, be sure not to make any mistake in polarity.

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.
- Type A8L, A8M, and A8G

The switches are not sealed to prevent to enter the dust particles and liquid perfectly. Test the Switches under the actual operating conditions before use.

- A8G

The Switch may malfunction in a strong magnetic field because the Switch has a permanent magnet and solenoid. Test the Switch under the actual operating conditions before use.

- A8N and A8W

Though panel sealed (IP67) at front, be caution the following points for actual use.

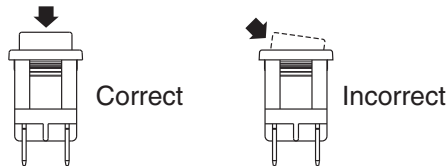
Do not use Sealed Switches while submersed in water or in locations exposed to water.

Do not use Sealed Switches in places that are visibly dusty. Otherwise, the Switch may malfunction.

The seal is changed depending on the processing accuracy and the panel thickness, and it is in the panel the fear of the invasion of water. Test the Switch under the actual operating conditions.

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.



- The recommended panel material is SPCC. The switch may not be held securely if the material is soft, or if the reverse side of panel is not edge-shaped. Be sure to test the switch in actual operation before setting the thickness and measurements of panel.

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	: 1,000 ppm max.
Mercury	: 1,000 ppm max.
Cadmium	: 100 ppm max.
Hexavalent chromium	: 1,000 ppm max.
PBB	: 1,000 ppm max.
PBDE	: 1,000 ppm max.

- 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.

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ELECTRONIC AND MECHANICAL COMPONENTS COMPANY

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