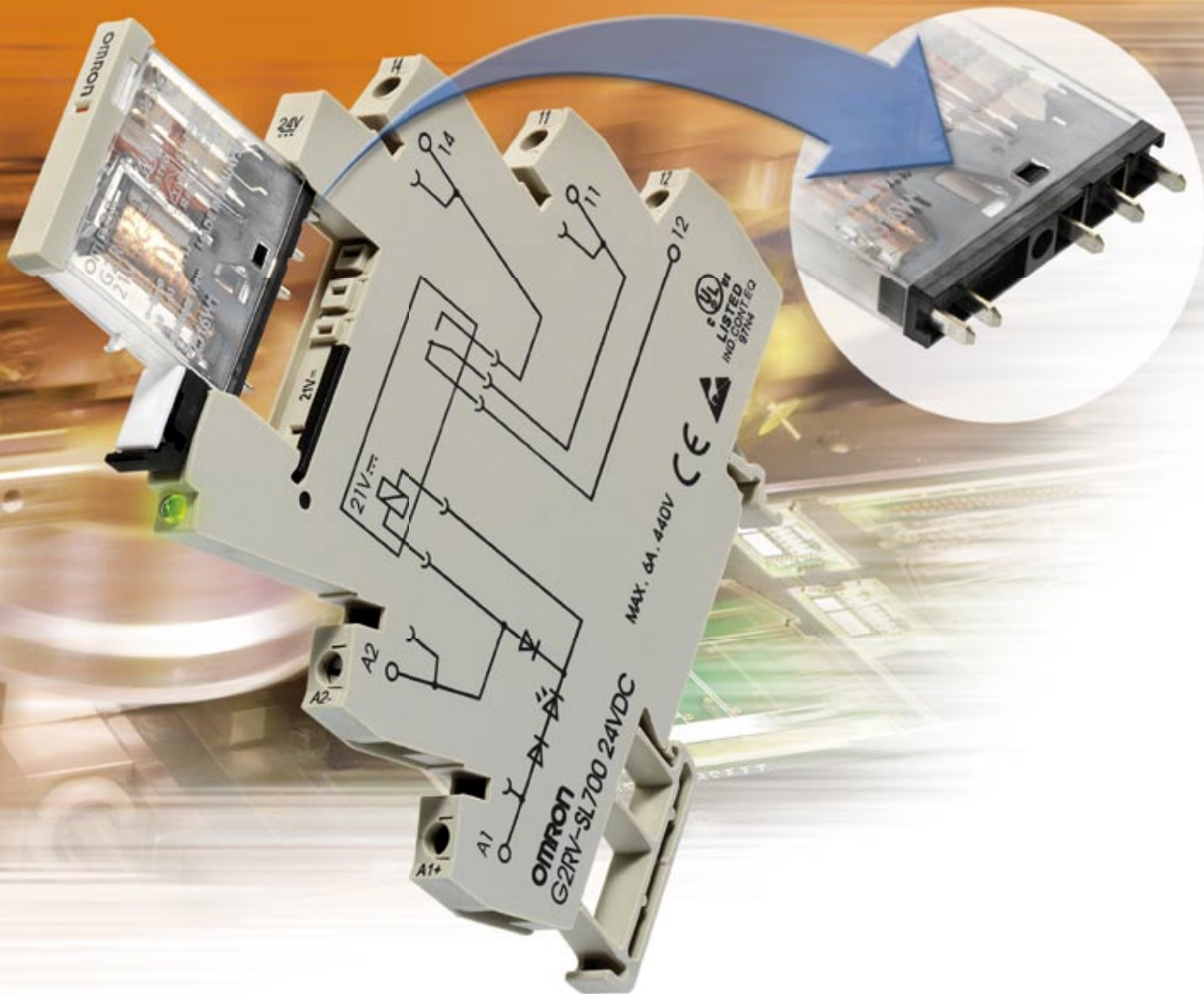




Non-bendable!

First 6 mm relay with strong mechanical pins

Omron's G2RV:

- | | | |
|-------------------------|---|----------------------|
| • Large plug-in pins | — | Excellent Connection |
| • LED / Mechanical Flag | — | Check Operation |
| • Transparant Housing | — | Check Condition |
| • Slim Outline | — | Space Saving |
| • Push-in / Accessories | — | Easy Wiring |

www.omron-industrial.com
www.omron-industrial.com/slimrelay

Advanced Industrial Automation

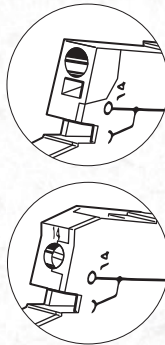
OMRON

Details on the G2RV

Wiring

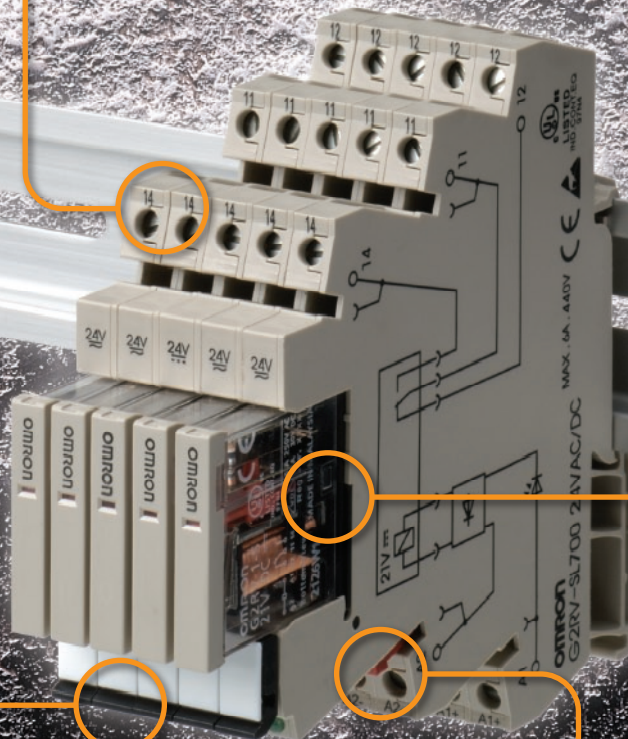
The G2RV also provides flexibility for wiring. The Bases in this new Relay Series are available with screw terminals or push-in terminals for wire connection.

Choose the best connection method for the application.



Terminal Block-type Module

With a width of only 6.1 mm, the G2RV meets essentially any FA application, particularly switching and expansion of equipment and machinery. The G2RV is easily installed even under strict space limitations.

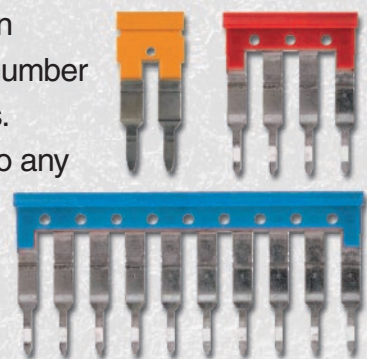


Stoppers and Levers

Easy-to-use stoppers and levers securely hold the Relays to the Base. They also enable easily removing the Relays from the sockets. The stoppers and levers are also equipped with grooves to attach markers, which can be used to easily identify circuits.

Crossbars

P2RV Crossbars come in many variations for the number of poles and edge colors. They can be plugged into any of a total of four slots for I/O according to the application.

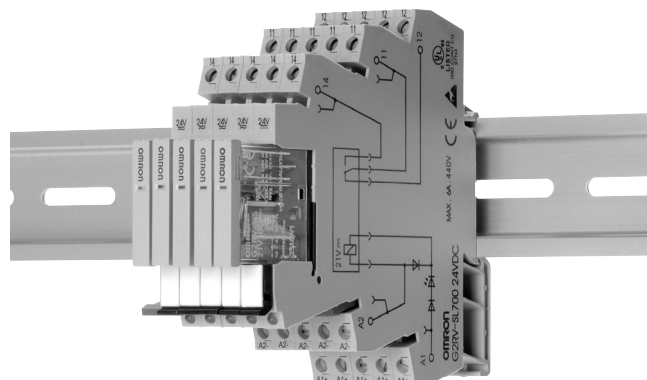


Slim Relay

G2RV

The World's First Industrial Slim Relay

- Large plug-in terminals for easy connection.
- LED indicator and mechanical flag to check operation.
- Transparent housing enables checking relay condition.
- Slim outline to save space.
- Push-in terminals and accessories for easy wiring.



Specifications

■ Input Ratings

Rated voltage	Rated current			Operate voltage	Release voltage	Power consumption		Input voltage % of rated voltage			
	AC		DC			AC (VA) Approx.	DC (mW) Approx.				
	50 Hz	60 Hz									
12 VDC	---	---	27.2	80%							

Accessories

■ PLC Interfaces

List of Models

Model number	Description	Connection
P2RV-8-O-F	For output use	Flat cable

Specifications

Input	Rated voltage	30 VAC/VDC max.
	Current capacity	0.5 A per channel 2.0 A total current, power supply terminal
Characteristics	Ambient temperature	Operating: 0 to 55°C Storage: -20 to 85°C
	Overvoltage category	III
	Pollution degree	

■ Single Relays for Maintenance

Model Number Legend

G2RV- - - -

1 2 3 4 5 6

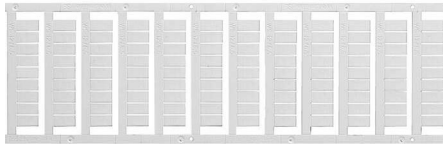
1. Number of Poles

1: 1 pole

2. Terminals

■ Plastic Labels for G2RV Sockets

Model number	Quantity	Color
R99-15 for G2RV	5 sheets × 120 labels = 600 labels (minimum order)	White



■ Labels (Stickers) for G2RV Sockets

Model number	Quantity	Color
R99-16 for G2RV	10 sheets × 484 labels = 4,840 labels (minimum order)	White

■ Separating Plates

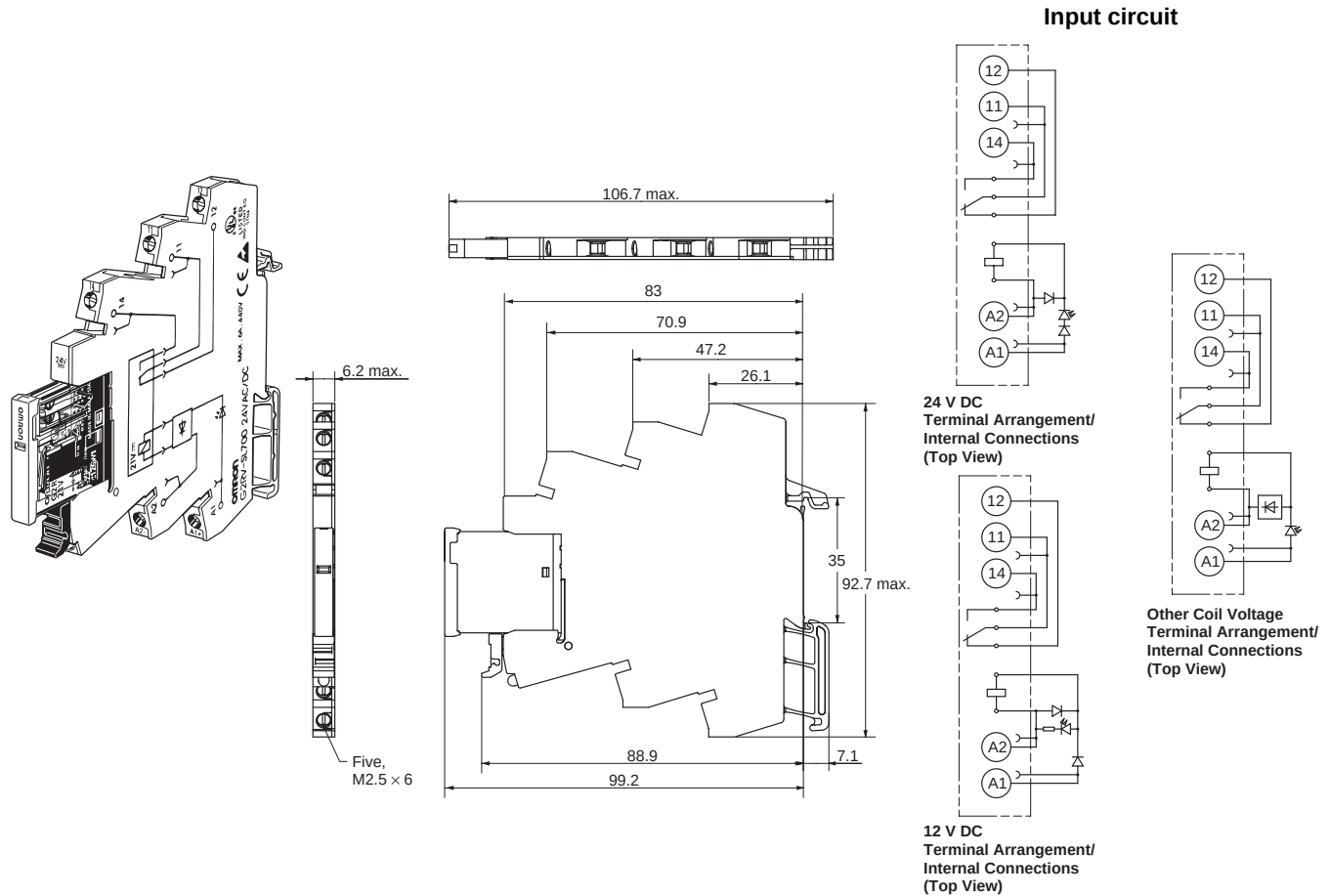
Model number	Quantity	Description
P2RV-S	50 plates (minimum order)	Provides isolation between adjacent rel

Dimensions

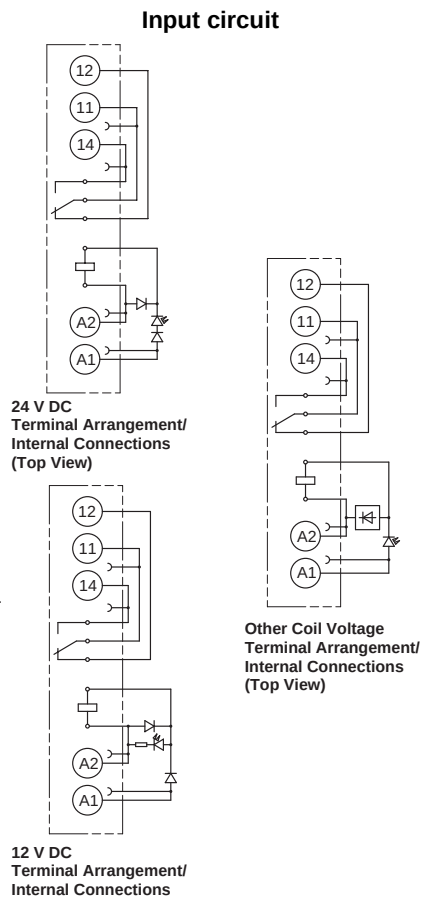
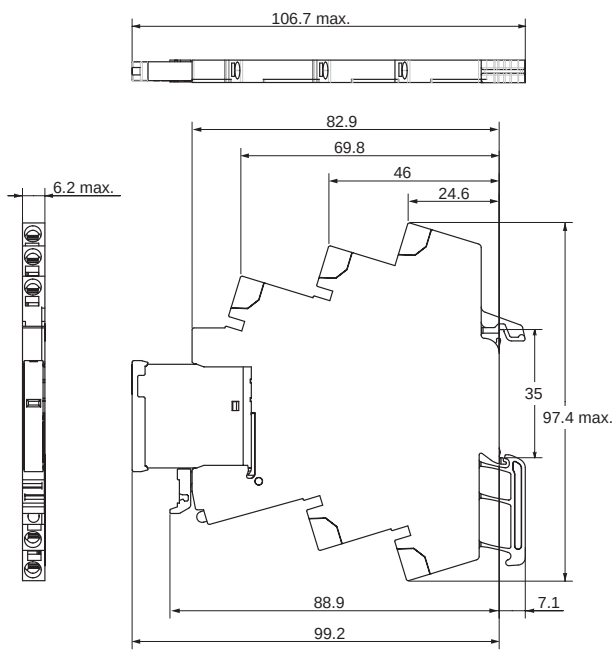
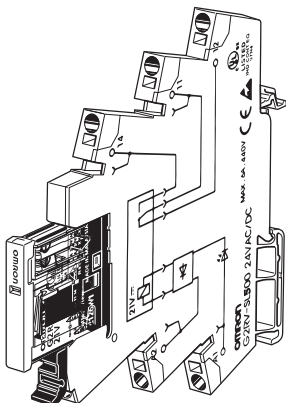
Note: All units are in millimeters unless otherwise indicated.

Complete Unit

G2RV-SL700

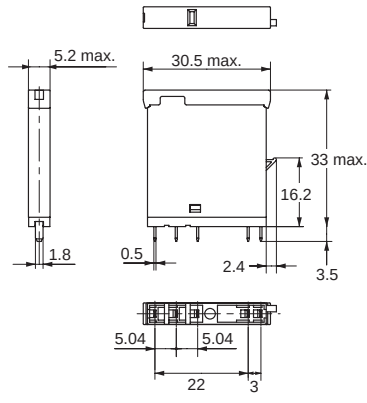
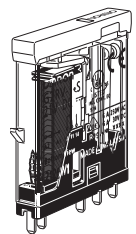


G2RV-SL500

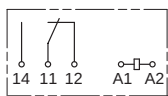


Single Relay

G2RV-1-S



Input circuit



Terminal Arrangement/ Internal Connections (Bottom View)

Installation

■ Tools

A flat-blade screwdriver should be used to mount the cables for G2RV-SL-500-series Relays when using standard wire without ferrules.

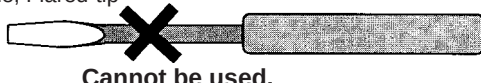
Applicable Screwdriver

- Flat-blade, Parallel-tip, 2.5 mm diameter (3.0 mm max.)

- Flat-blade, Parallel-tip



- Flat-blade, Flared-tip



Examples: FACOM AEF.2.5×75E (AEF. 3×75E)
 VESSEL No. 9900-(-)2.5×75 (No. 9900-(-)3×100)
 WIHA 260/2.5×40 (260/3×50)
 WEIDMULLER SD 0.4×2.5×7.5 (SD 0.5×3.0×80)

*Chamfering the tip of the driver improves insertion when used as an exclusive tool.

■ Applicable Wires

Applicable Wire Sizes

G2RV-SL700 Series

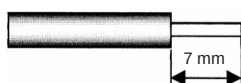
Property	Requirements
Cross-section with clamping yoke technology	0.5 to 2.5 mm ² : stranded/solid (without ferrules) 0.5 to 2.5 mm ² : stranded wires with ferrules with plastic collar 0.5 to 2.5 mm ² : stranded wires with ferrules without plastic collar 4 mm ² : Solid Stripping length: 7 mm

G2RV-SL500 Series

Property	Requirements
Cross-section with push-in technology	0.5 to 2.5 mm ² : stranded/solid (without ferrules) 0.5 to 1.5 mm ² : stranded wires with ferrules with plastic collar 0.5 to 2.5 mm ² : stranded wires with ferrules without plastic collar 4 mm ² : Solid Stripping length: 12 mm

Use wires of the applicable sizes specified in the above table. The length of the exposed conductor should be 7 mm for a G2RV-SL700 series Relay, 12 mm for a G2RV-SL500 series Relay.

G2RV-SL700



G2RV-SL500

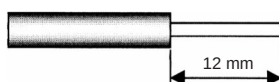
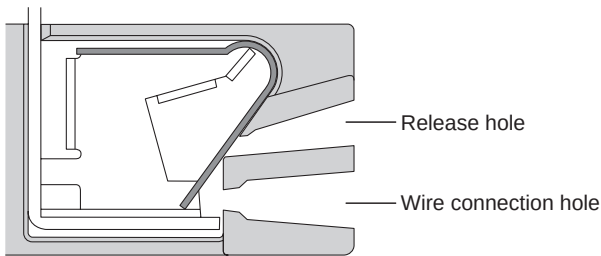
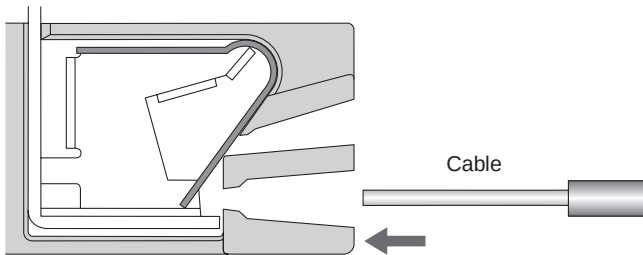


Fig. 1 Exposed Conductor Length

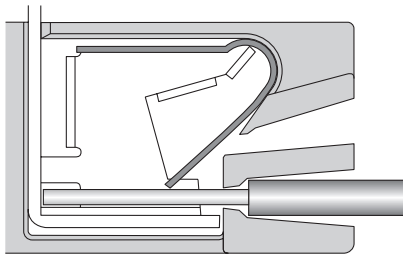
Wiring Procedure for G2RV-SL500 Series



Wiring (for Stranded Wires with Ferrules or Solid Wire)

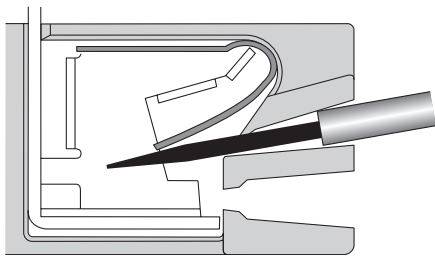


Insert the exposed conductor into the connection hole.

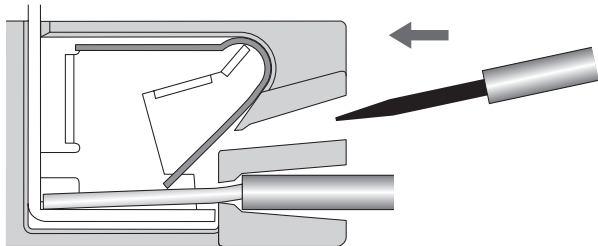


No other tools are required.

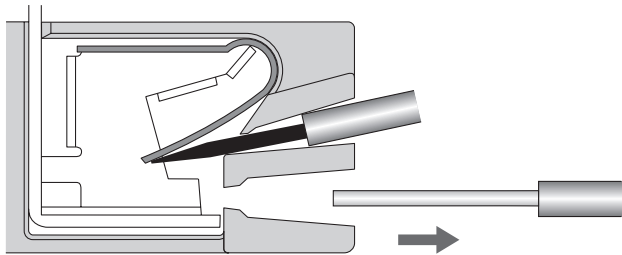
Use the above procedure for stranded wires without ferrules, but add the following step to the beginning of the procedure.



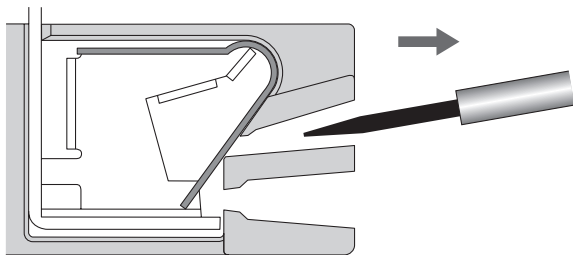
Remove



Insert the specified screwdriver into the release hole.



Remove wire.



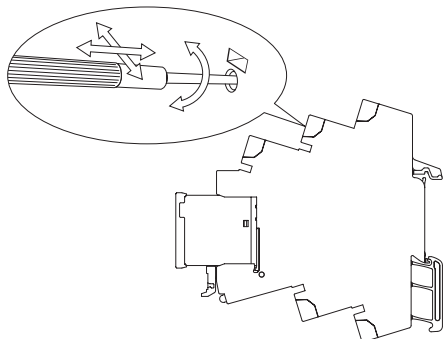
Remove screwdriver.

Note: Remove the screwdriver all the way.

Precautions

Precautions for Connection

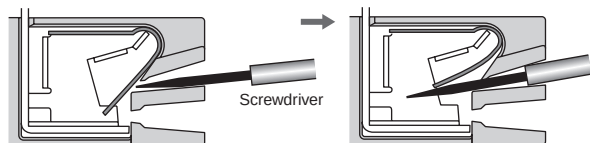
- Do not move the screwdriver up, down, or from side to side while it is inserted in the hole. Doing so may cause damage to internal components (e.g., deformation of the clamp spring or cracks in the housing) or cause deterioration of insulation.
- Do not insert the screwdriver at an angle. Doing so may break the side of socket and result in a short-circuit.



- Do not insert two or more wires in the hole. Wires may come in contact with the spring causing a temperature rise or be subject to sparks.



- Insert the screwdriver along the hole wall as shown below.



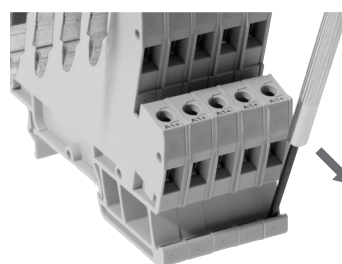
- If lubricating liquid, such as oil, is present on the tip of screwdriver, the screwdriver may fall out resulting in injury to the operator.
- Insert the screwdriver into the bottom of the hole. It may not be possible to connect cables properly if the screwdriver is inserted incorrectly.

General Precautions

- Do not use the product if it has been dropped on the ground. Dropping the product may adversely affect performance.
- Confirm that the socket is securely attached to the mounting track before wiring. If the socket is mounted insecurely it may fall and injure the operator.
- Ensure that the socket is not charged during wiring and maintenance. Not doing so may result in electric shock.
- Do not pour water or cleansing agents on the product. Doing so may result in electric shock.
- Do not use the socket in locations subject to solvents or alkaline chemicals.
- Do not use the socket in locations subject to ultraviolet light (e.g., direct sunlight). Doing so may result in markings fading, rust, corrosion, or resin deterioration.
- Do not dispose of the product in fire.

Removing from Mounting Rail

To remove the socket from the mounting rail, insert the tip of screwdriver in the fixture rail, and move it in the direction shown below.



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. J163-E1-01 In the interest of product improvement, specifications are subject to change without notice.

OMRON RELAY & DEVICES Corporation

Power Relay Division

Marketing Department

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Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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