# Industrial Slim Relay

## 6A-rated 6mm wide relay with reinforced pins for reliable insertion

Mechanical indicator

Transparent housing

Ordering code relay

Strong mechanical pin

Positive insertion and lock-in
eliminates relay rattle and
intermittent terminal connection.

Green LED indicator

Internal circuit diagram

Input voltage

Ordering code Relay
/Socket combination

G2RV-SL700 24VDC
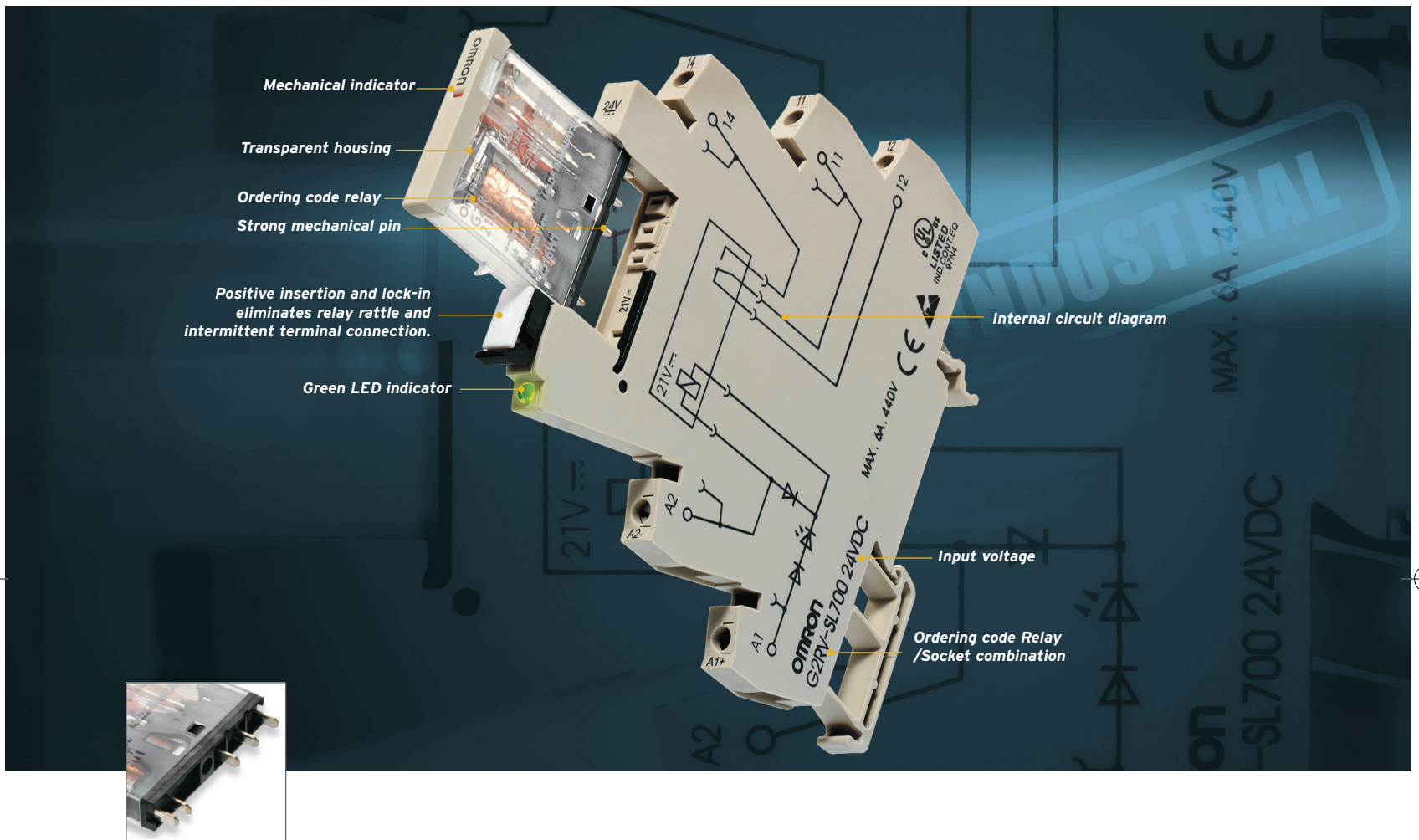
### Reinforced Terminals
G2RV incorporates a reinforced QC style terminal avoiding the tendency to bend during replacement. In addition, the larger quick connect surface ensures a more reliable connection between socket and relay.

### Visible Indication
The G2RV relay features two indicators: a mechanical indicator and an LED indicator. This enables efficient and accurate confirmation of both correct relay function and actuation status.

### Space Saving
Drawing on well over 50 years of experience with relays, Omron is now introducing the new G2RV industrial slim relay. With a width of only 6 mm, it offers a culmination of marrying space saving innovations with full featured reliability and performance.

### Constructed to the Highest Standards
G2RV relays are built to Omron's internal exacting quality and environmental standards. As is the norm for OMRON's electromechanical products, this relay system meets the relevant international standards, such as cCSAus, cULus, VDE, RoHS, and CE.

### Meets Customer Requirements
The G2RV relay perfectly meets the needs of manufacturers like panel and machine builders looking to cut costs by reducing panel size. Its slim width allows modules to be downsized and the number of I/O lines to be increased while continuing to utilize a standard platform for a range of control loads, from a powerful 6A to an accurate 10 mA signal. Relay and socket are sold as a combination, with relays available separately for maintenance purposes.

## OMRON
### ELECTRONIC COMPONENTS
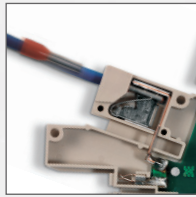
### Screw- and Push-in terminals

Sockets are available for your choice of connection style:  the more conventional Screw Terminal (Box Clamp) or the newer simpler push-in technology (does not require the use of a special tool, thus further simplifying wiring and saving time).
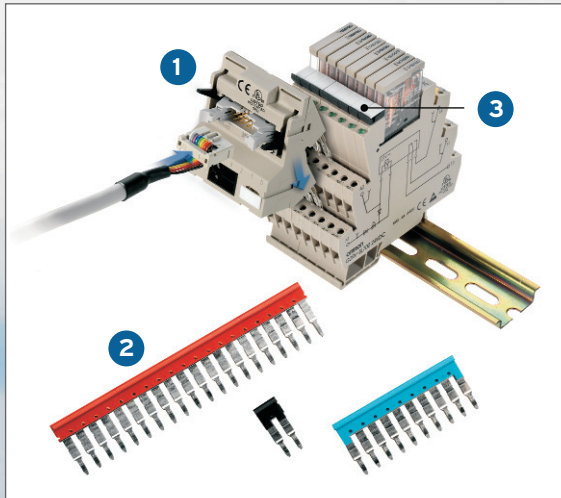


### Range of accessories

**1** Output interface module to quickly connect a PLC to multiple G2RV sockets simultaneously and cost-effectively.

**2** Cross-bars in various colors and number of poles

**3** Identification labels in both alphanumerical and bar code.

## Ordering Information

| RELAY / SOCKET COMBINATION | | |
|---|---|---|
| Input voltage | Screw terminals | Push-in terminals (future development) |
| 12 VDC | G2RV-SL700 | G2RV-SL500 |
| 24 VDC | G2RV-SL700 | G2RV-SL500 |
| 24 VAC/DC | G2RV-SL700 | G2RV-SL500 |
| 48 VAC/DC | G2RV-SL700 | G2RV-SL500 |
| 110 VAC | G2RV-SL700 | G2RV-SL500 |
| 230 VAC | G2RV-SL700 | G2RV-SL500 |

**NOTE:** When ordering, add the rated coil voltage to the part number.
Example: G2RV-SL700-*DC12* or G2RV-SL700-*AC48*.

| ACCESSORIES | | |
|---|---|---|
| Type | Description | Ordering code |
| Cross bar | 2 poles | P2RVM-020® |
| Cross bar | 3 poles | P2RVM-030® |
| Cross bar | 4 poles | P2RVM-040® |
| Cross bar | 10 poles | P2RVM-100® |
| Cross bar | 20 poles | P2RVM-200® |
| PLC interface | Connect 8 relays and PLC output | P2RVC-8-O-F* |
| Label | Plastic, for mounting on socket | R99-15 for G2RV |

* Release Q3 2006.

| RELAY/SOCKET COMBINATION | |
|---|---|
| Contact form | SPDT |
| Input voltage | DC        AC/DC     AC<br>12, 24    24, 48     110, 230 |
| Rated load | 6 A @ 250 VAC<br>6 A @ 30 VDC |
| Max. switching voltage | 400 VAC |
| Max. switching current | 6 A |
| Max. switching power | 1,500 VA / 180 W |
| Min. permissible load | 10 mA @ 5 VDC |
| Mechanical life | 5 Million operations |
| Electrical life (Rated load) | 100K operations (minimum) |
| Dielectric strength | 6KV |
| Ambient temperature | -40°C to +55°C |
| Approved standards | CE, VDE, cULus, cCSAus |
| Dimensions (HxLxW) | (106.7 x 92.7 x 6.2) mm |

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