


Industrial Relays

Quality relays for every industrial application



- Uncompromising high quality
- Flexibility to match your needs
- Fault-free connectivity every time



World-leading relay technology with a difference

Uncompromising high quality

Omron doesn't compromise when it comes to design and raw material selection. For Omron this means that every relay should work perfectly for at least 1.3 times the number of specified operations. For instance, due to its superior design our 6 mm G2RV relay offers double the lifespan of average 6 mm relays (6A; 250VAC NC/NO)

Flexibility to match your needs

Thanks to a pin-compatible line-up of both electro-mechanical relays (EMRs) and solid state relays (SSRs), there will always be a ready-made Omron solution to match your needs. And if the standard general purpose MY-GS doesn't suit, Omron also offers a hermetically sealed, PCB terminal and latching version as well as an identical model with bifurcated contacts suitable for switching low-level signals.

Fault-free connectivity every time

The introduction of smaller-sized, high-power relays for use as PLC interfaces revolutionized the field of industrial automation. Wiring systems have been introduced eliminating concerns such as the availability of personnel and wiring mistakes. With the G2RV industrial interfacing solution, you can interface the relays to any PLC by following three quick and simple steps.

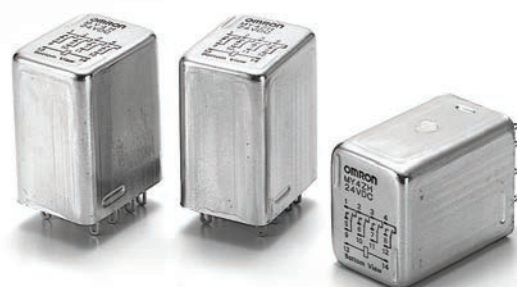
Wind turbines are exposed to the full forces of nature, so specifications within this industry are very high and warranty times are long. Maintenance costs are also high, as helicopters are required for offshore wind farms to perform even routine maintenance. Naturally, Omron relays are the first choice for this industry.

A line-up you can depend on

Omron offers electromechanical relays for general purpose applications and solid state relays for endurance and where high frequencies are encountered. They are extremely robust and able to withstand the harshest environments. Take for example our fully hermetically sealed MY4H relay, which is ideal for use in hazardous locations.

The difference is in the detail

The difference of an Omron relay is its design and the special precautions taken during the manufacturing process. For example, by using round edged shapes, avoiding burr and the use of cleanroom facilities during assembly. But the differences don't stop there.



Hermetically sealed relay MY4H



Industrial (solid state) relays are commonly used in industries like Food & Beverage, for instance to switch the various actuators on a bottling line.



G2RS Plug-in relay with enhanced features

Slimline interface relays with enhanced features and flexibility for user-friendly installation, commissioning and operation.

- SPDT type 10A, DPDT type 5A
- AgSnIn contact material offers an extremely well balanced performance for various load characteristics
- Industrial pins guarantee higher conductivity and less temperature increase



G3R-I/-O Compact SSR - G2RS compatible

For I/O interfaces requiring high dielectric-strength. Compatible with G2RS electromechanical relays. High-speed models with optimum input ratings for a variety of sensors are also available.

- 1.5A and 2A output current
- 5 to 200VDC/100 to 240VAC output voltages
- DIN-rail mounting via sockets
- Indicator to confirm input



SSRs are ideal for applications where fast and repetitive load switching is required. An example of this is pneumatic nailers in the wood processing industry.



LY Plug-in relays

The modern contact design and high-grade contact material used in the LY series are reflected in the contact ratings specification. Also the switching capacity of the LY power relay is impressive topping the max. current with 15A (Ag alloy)

- Dielectric strength up to 2kV
- Equipped with an arc barrier
- Built-in diode and built-in CR circuit are available
- Equipped with LED
- Strong industrial pins for better conductivity

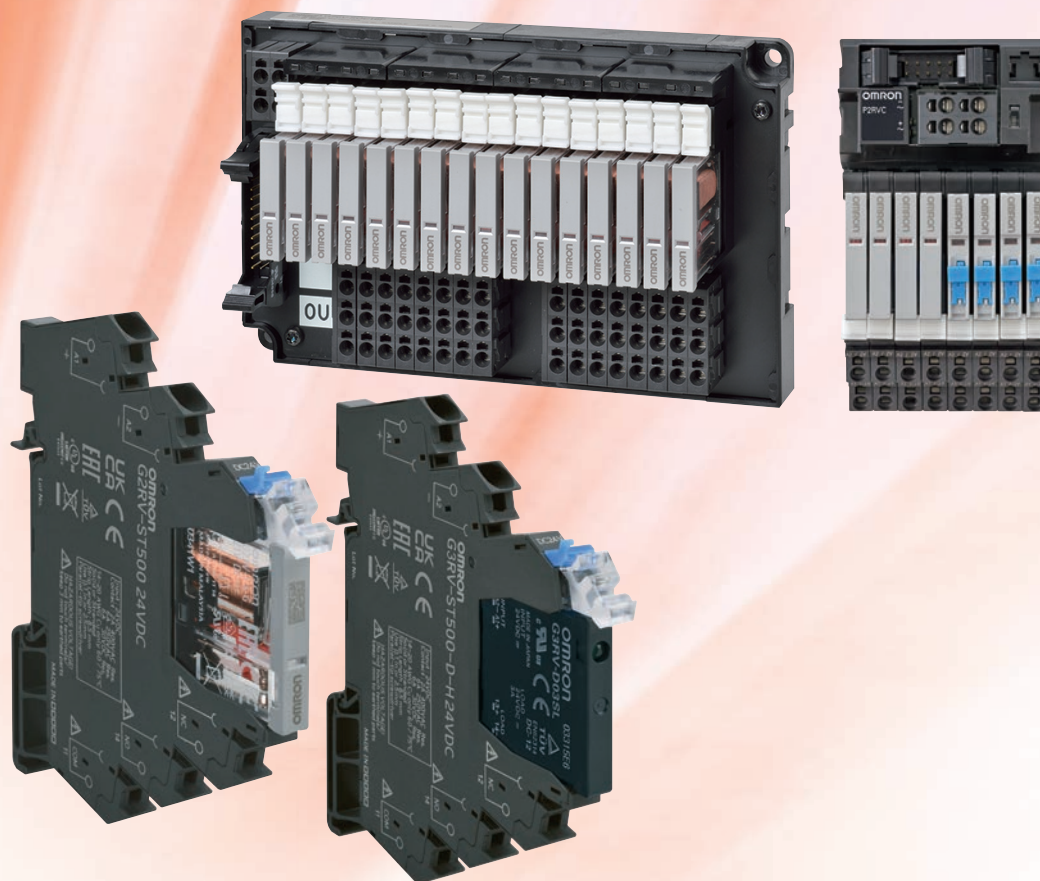


G7SA Safety relay

The slimmest relay family with forcibly guided contacts is available as a four or six-pole type in various contact combinations and offers reinforced insulation. Terminals are arranged for easy PCB layout. It can be soldered directly to a PCB or used together with the P7SA sockets.

- Forcibly guided contacts
- Conforms to EN 50205
- 6 A at 240 VAC and 6A at 24 VDC for resistive loads
- Reinforced insulation between inputs, outputs and poles
- 4- and 6-pole relays available
- Sockets available with Push-In plus and screws version

Industrial interfacing made easy



Omron offers an industrial interfacing solution that makes the installation and replacement of relays easy. Based on Omron's slim (6 mm) industrial relay series, it takes just three easy steps to interface our connectors securely and reliably to any type of PLC.

- Space saving
- Interfaces blocks of 8 relays to your PLC
- No faulty connections
- Power switching capacity
- Double the lifespan of average 6 mm relays (6A 250VAC NC/NO)
- Excellent relay connection due to large plug-in pins
- Easy maintenance