

OMRON

Relays, Switches, Sensors  
and Connectors for the  
Factory Automation Market



# FACTORY

Automation

[www.components.omron.eu](http://www.components.omron.eu)

## Leading-edge Technology for the Factory Automation Market

Omron is a €7 billion global supplier of electronic components and solutions for a broad range of applications. With over 75 years of experience in manufacturing electronic and electromechanical components, Omron provides global and local networks of technical and sales support from design through to delivery.

### Combining Core Competencies and New Technologies

Omron applies a comprehensive mix of manufacturing and technological skills to make reliable, replicable electromechanical and solid state components.

### Competencies

- Materials
- Precision Replication & Assembly
- Stamping & Moulding
- Integration of Active Elements
- Packaging

### Technologies

- Switching
- Sensing
- Micro Lens Arrays
- Magnetic Actuators
- Nano Machining
- Micro Electromechanical Systems
- Solid State Components



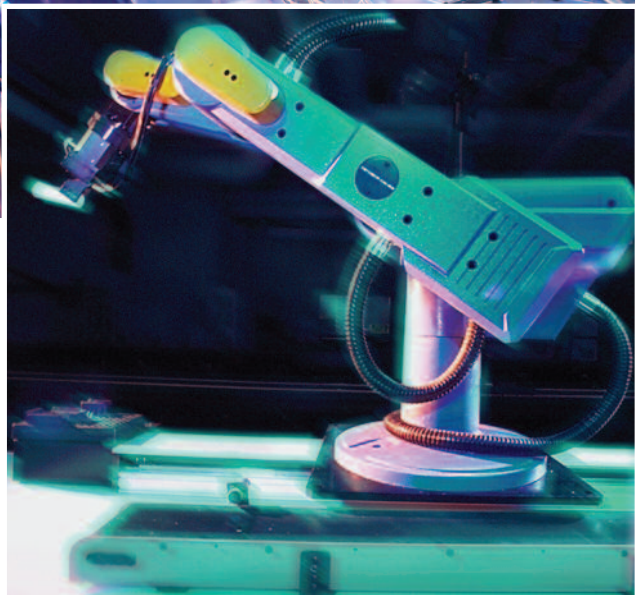
Omron designs and manufactures a wide range of high quality, high performance components utilising latest technologies for the Factory Automation Market.

Products include relays, switches, connectors and sensors. Committed to quality, Omron has built its business focussed on providing customers, globally with quality products, value added services and customer care. These services are an integral part of Omron's total supply solution and includes full technical and sales support.

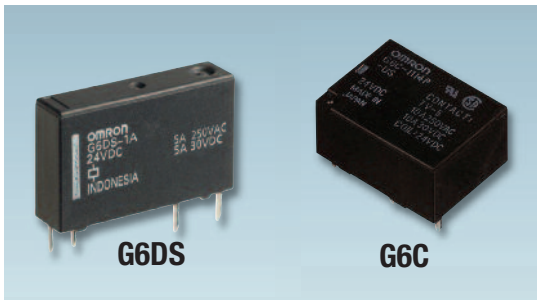


## PLC Applications

In order to provide effective manufacturing process control and information systems, Programmable Logic Controllers (PLCs), computers, robotic technologies, motion control & drive systems, and other state-of-the-art technologies need reliable components.



## PCB Power Relays



### G6DS

Slim miniature relay with 1 pole 5A switching capability.

### G6C

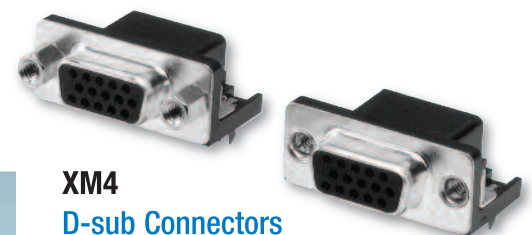
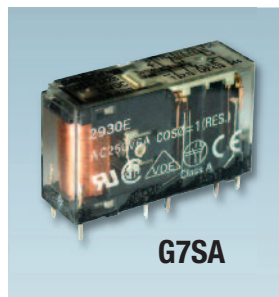
Low power consumption 200mW. Unique moving loop armature reduces relay size, magnetic interference and contact bounce

## PLC Connector Box

### Safety Relays

### G7SA

Conforms to EN Standard. Forcibly guided contacts (EN50205 Class A) suitable for safety circuits in press machinery, machine tools and other production equipment.



### XM4

### D-sub Connectors

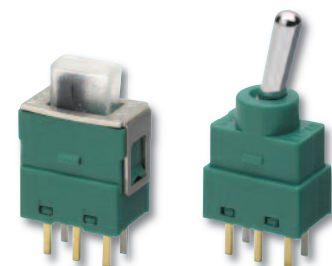
## Toggle Switches

### A9S

Small slide switch with 2 point clip contact mechanism combined with see-saw action.

### A9T

Miniature toggle switch with 2 point clip contact mechanism combined with see-saw action.



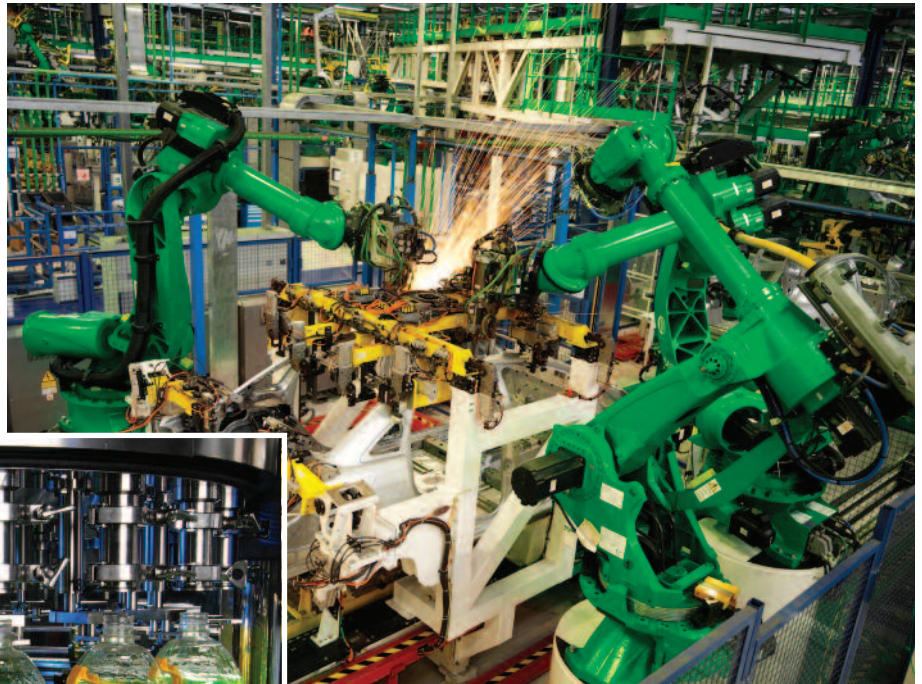
### A9S

### A9T

# Factory Automation Components & Technologies

## Frequency Inverter

When controlling the speed of electrical motors, pumps, lift motor controls, etc. you need reliable components.



## Output Relays



### G6DS-1A

Slim miniature relay with 1 pole 5A switching capability.

### G6RL-1

Low profile 12.3mm height, 8A high insulation relay. Maximum switching of 10A.

### G5Q-1-EU

Compact single pole relay with high isolation between coil and contacts.

### G3MC-202

Solid State Relay 5mm width and 250VAC/2A switching load. Ideal for high speed I/O applications and long electrical life.



## By-Pass Relays

### G5Q-1A-EU

Compact single pole relay with high isolation between coil and contacts.

### G2RL-1A-E

High capacity type (16A), high sensitivity type (250mW) and quick connect terminal type all available.

Low profile 15.7mm max height.

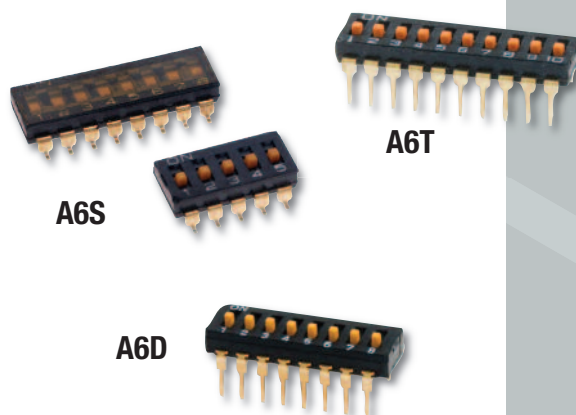
### G5RL-1AE

Single pole 15A power relay. AC coil type, high inrush type and silent models available. Low profile – height 15.7mm.



## DIP Switch A6 series

Omron's DIP switches suit most production methods. The A6D series with dustproof construction is ideal for processes that require immersion cleaning. The A6T series is a base-sealed option with a top tape seal to allow washing, and the A6S series is a surface-mount version. The ultra-low profile A6H surface-mount switch delivers a 63% reduction in mounting space compared with conventional models.



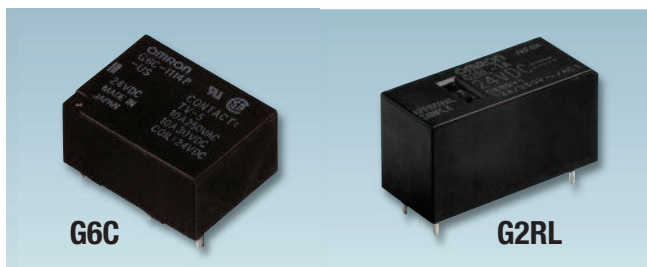
# Factory Automation Components & Technologies

## Timer/monitoring relays

Relays are used in panels in control rooms, timer counters with digital displays and temperature controllers. They are also used to protect motors/heaters from overload.



## Output Relays



### PCB Power Relay - G6C

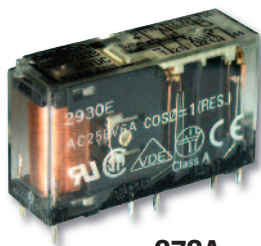
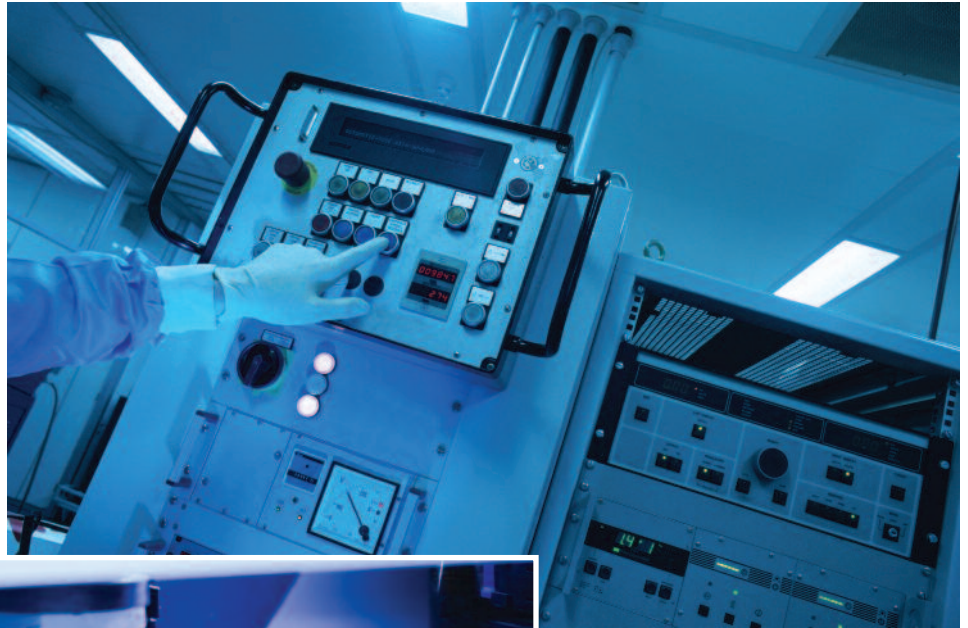
Low power consumption 200mW. Unique moving loop armature reduces relay size, magnetic interference and contact bounce. Single and double-winding latching types available.

### PCB Power Relay - G2RL

High capacity type (16A) high sensitivity type (250mW) and quick connect terminal type all available.

Low profile 15.7mm max in height

## Safety Relays



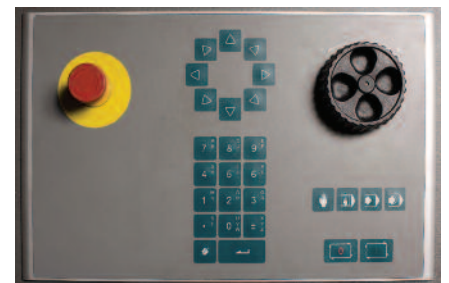
**G7SA**

### Safety Switching Modules

Safety Modules installed in panels on a DIN rail are used to control machines or robots. In an emergency they switch off machines or robots.

### General Purpose Relay - G7SA

Ideal for use in safety circuits in production machinery. Four- and six-pole versions are available. The terminal arrangement simplifies PWB pattern design.





*Head Office*

**Omron Electronic Components Europe B.V.**

Wegalaan 57

2132 JD Hoofddorp

The Netherlands

Tel: +31 23 568 1200

Fax: +31 23 568 1222

**Ref. U03E-EN-01**

**Omron Electronic Components Europe B.V.**

Sales Division France

14, rue de Lisbonne

93561 Rosny Sous Bois

France

Tel: +33 1 56 63 19 00

Fax: +33 1 48 55 97 75

**Omron Electronic Components Europe B.V.**

Sales Division Central Europe

Gruber Strasse 60d

85586 Poing

Germany

Tel: +49 8121 77240

Fax: +49 8121 77244

**Omron Electronic Components Europe B.V.**

Sales Division Italy

Viale Certosa 49

20149 Milano

Italy

Tel: +39 02 3268 850

Fax: +39 02 3268 851

**Omron Electronic Components Europe B.V.**

Sales Division Benelux

Wegalaan 57

2132 JD Hoofddorp

The Netherlands

Tel: +31 23 568 1200

Fax: +31 23 568 1212

**Omron Electronic Components Europe B.V.**

Emerging Markets Operations

CBC 1

Karadžičova 8

821 08 Bratislava

Slovakia

Tel: +421 2582 40950

Fax: +421 2582 40999

**Omron Electronic Components Europe B.V.**

Sales Division Iberia

Arturo Soria 95

28027 Madrid

Spain

Tel: +34 91 377 7900

Fax: +34 91 377 7987

**Omron Electronic Components Europe B.V.**

Sales Division Nordic

Box 1275

Norgegatan 1

S-164 32 Kista

Sweden

Tel: +46 8 632 3520

Fax: +46 8 632 3535

**Omron Electronic Components Europe B.V.**

Sales Division United Kingdom & Ireland

Building A, Campus Six, Caxton Way

Stevenage, Hertfordshire, SG1 2XD

United Kingdom

Tel: +44 870 750 5661

Fax: +44 870 750 5662

**[www.components.omron.eu](http://www.components.omron.eu)**