

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



BUILDING

Automation

www.components.omron.eu

Leading-edge Technologies for the Building 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 provide innovative solutions in the building automation market, starting from electromechanical components to MEMS sensors.

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 Devices



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





Lighting

Omron's relays are ideal for switching lamp loads whether it is for 'Intelligent Lighting', which detects whether people are in an area or not, or emergency lighting, which is seldom used but still has to function reliably and efficiently when required.

Emergency Lighting

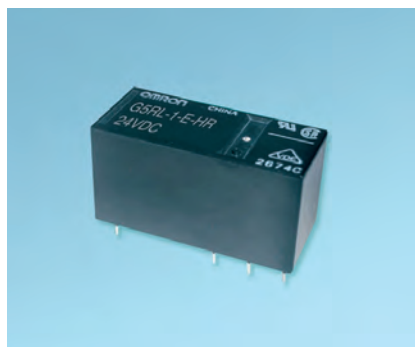


Power Relays



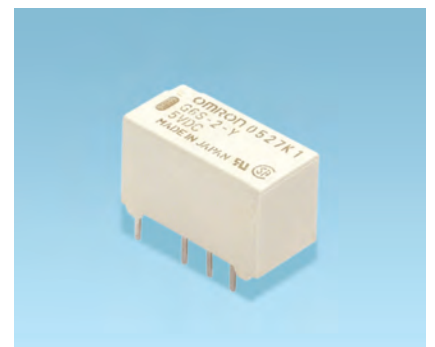
Power Relay G5RL-LN

Low profile relay - Silent Model - low background noise, only 30dB; high inrush current contact, approved UL TV-8



Power Relay G5RL-HR

Low profile relay - High Capacity model - high inrush peak currents up to 100A, approved UL TV-5



Signal relay G6S

Double pole 2A relay suitable for emergency light control

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Thermostats

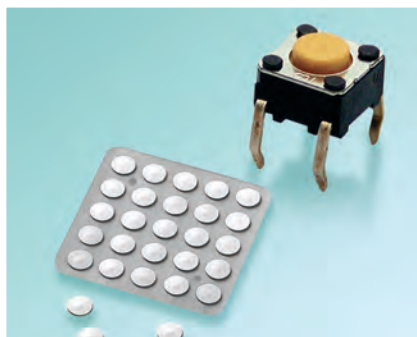
Omron offers connectors and high performance relays for energy management systems, which are paramount with today's emphasis on the environment.

FPC connectors

FPC connectors for displays used in thermostats, entry phones and remote controls, with 0.5/0.3mm pitch and Omron proprietary backlock mechanism

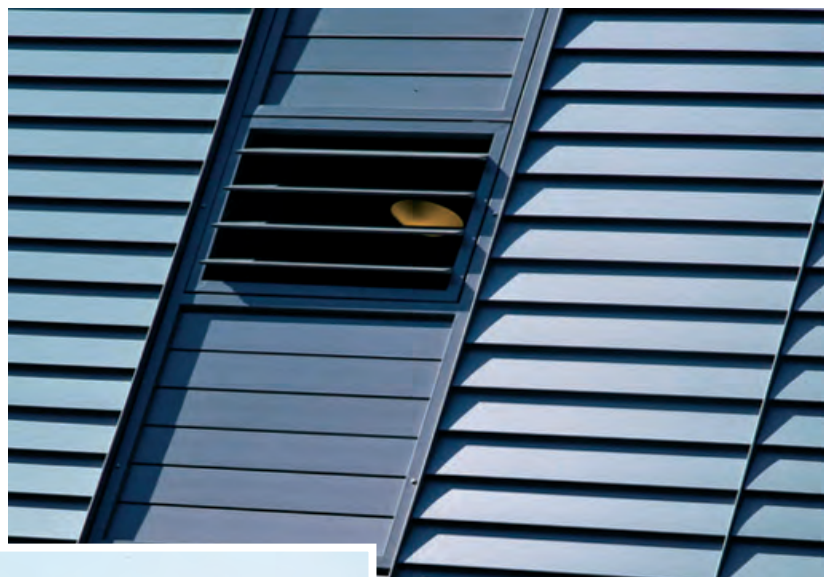


Shutter Control



Tactile Switches

B3F and ultra low profile dome array B3DA



Signal Relays G6S, G6K

Wide range of mono-stable and bi-stable signal and power relays



Detection Switches SS, D3V

Compact Power Relays G6D, G5Q

Detection Switches and Power Relays are ideal for high density applications such as louvre and shutter control.



Ventilation, Air control, Clogged Filter Detection

Omron's flow sensors monitor the performance of fans and air intakes to detect clogged filters and therefore ensure precision performance is maintained over the product life time. Harmful emissions are also reduced therefore saving energy.



MEMS Flow Sensors

The D6F-V, D6F-W and D6F-P incorporate a DSS (Dust Segregation System) that prevents the contamination of the MEMS chip from air particles, providing a continuous, reliable and stable measurement.



Security (alarm systems)

In the case of emergencies within a building or its grounds it is vital to locate the security problem as quickly as possible. Omron components are used in a variety of applications including Passive Infrared Sensors and Security Monitoring Devices.



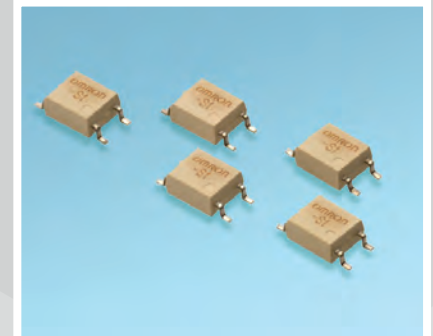
Detection Switches - D3S

Ultra small size and ultra small profile, SMD terminals



DIP Switches - A6ER

Low cost DIP Switch. Sealed to prevent flux penetration



MOSFET Relays

Wide range of formats and contact configurations, from 60mA to 5A as rated load

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Building Access Control

Detection Switches, relays and connectors are used in the operation of automatic gates, automatic doors, entry phones and wall pads.



Fire/Smoke Alarm System

Omron's components can be used to set a unique address in individual smoke/heat detectors. Passive Infrared Sensors (PIR) need to be tamper resistant, have no moving parts and be silent in operation.



G5V-1 Signal Relay

For photoelectric sensors in Automatic Gates



Tactile Switches

B3U and B3DA are used for Remote Controls



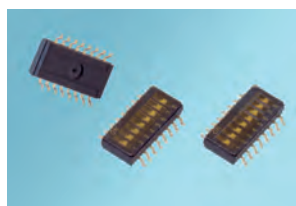
Connectors

Omron has a wide range of PCB connectors, including half-pitch, DIN-style and conform to MIL standard



Detection Switches – SS D3V D2F

Miniature, sub-miniature and ultra-subminiature switches available in a wide range of configurations and special levers



DIP Switches – A6H

Ultra low profile half pitch, SMD type



MOSFET Relays - G3VM-61VY

Low consumption and high isolation



Power Relays G6C G6B

Low power consumption 10A and 5A relays, also available in latching version.



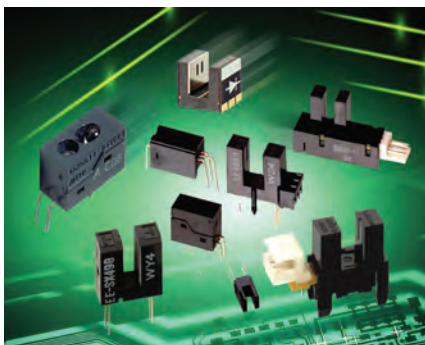
CCTV and Surveillance Control

CCTV and Surveillance Control Systems need to have ultra reliable and efficient components under demanding conditions. Omron has a number of products that are extensively used within this environment, such as Connectors, MOSFET & Signal Relays and Detection Switches.



Lift and Elevators

Safety-critical applications such as with lift and elevator controls must be high quality, high performance and ultra reliable. Omron offers components that are ideally suited to this type of application and cover a number of critical functions.



Photomicrosensors

Wide range of transmissive and reflective photomicrosensors, single and double channel for motor controls in elevators and automatic gates



Tactile Switches - B3SL

Middle stroke tactile switch with rubber plunger



Safety Relays - G7SA

Forcibly Guided contacts, conform to EN50205 class A



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