

## Omron Electronic Components: The Quality, Flexibility and Global Support You Need

### An Experienced Partner

With over 70 years experience and 5.5 billion US dollars in sales, Omron is one of the world's largest suppliers of electronic controls and components. Our extensive investment in research, and our commitment to developing innovative products based on the latest technologies has established our position as a global market leader to the HVAC industry.

### Quality First: Our Commitment, Your Benefit

Omron Quality is a mandate, not an option. We 100% test each product and examine every physical, mechanical, and electrical parameter on the manufacturing line before it leaves the factory. All products are fully RoHS compliant.

### World Recognized Flexibility and Support

Omron offers over 300,000 products, product customization, and co-development options. We also provide a complete network of global and local sales and technical support to assist you from design to delivery.

### For More Detailed Information...

#### Visit Us Online: [www.components.omron.com](http://www.components.omron.com)

- Browse Omron's full range of Product information and selection guides.
- Download PDF's – datasheets, brochures, and more.
- Find Omron solutions for competitive products.
- Locate a Distributor and search for available inventory.

#### Call Us:

1-847-882-2288 Monday through Friday,  
7:30 a.m. to 6:00 p.m. Central Time (CT)

#### Email Us:

[components@omron.com](mailto:components@omron.com)

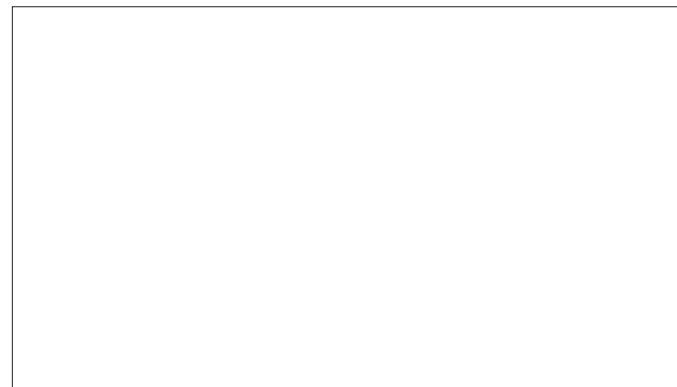
#### REQUIRED PRECAUTIONS

It is the buyer's sole responsibility to ensure that any omron product is fit and sufficient for use in a motorized vehicle application. Buyer shall be solely responsible for determining appropriateness of the particular product with respect to the buyer's application, end product, or system. Buyer shall take the application responsibility in all cases, but the following is a non-exhaustive list of applications for which particular attention must be given:

- Outdoor use; uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this document.
  - Use in consumer products or any use in significant quantities.
  - Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
  - Systems, machines, and equipment that could present a risk to life or property.
- Never use the product for an application involving serious risk to life or property or in large quantities without ensuring that the end product as a whole has been designed to address relevant risks, and that the omron product is properly rated and installed for its intended use.

### OMRON ELECTRONICS COMPONENTS LLC North and South America

55 Commerce Drive  
Schaumburg, IL 60173



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

# Solutions for the HVAC Market

## Electronic Components



Switching, sensing and other products for the HVAC market

Sensors  
Relays  
Switches  
Connectors

Y051-E-01  
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# Solutions for the HVAC Market



Omron Electronic Components LLC provides a variety of electronic component solutions throughout the entire Heating, Ventilation and Air Conditioning Industry. Whether you are designing for the Residential and Commercial Markets, Forced Air, Boiler or Water Heating, Omron has a solution for you. Providing quality-driven products and reliable support to satisfy the design needs of the HVAC Industry worldwide.

You can browse Omron's full range of electronic and electromechanical components at [www.components.omron.com](http://www.components.omron.com)



Boilers



Commercial HVAC



Forced Air



Water Heating



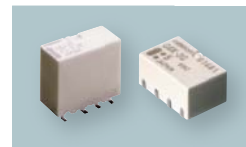
Residential HVAC

Thermostat Controls

## RELAYS



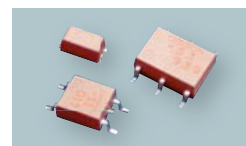
**Power PCB Relays**  
Omron, the #1 seller of relays worldwide, has a relay tailored to your power switching needs, including fully sealed versions. Coil voltages range from 3VDC (direct IC driven) to 48 VDC, with AC coil options now available in some families.



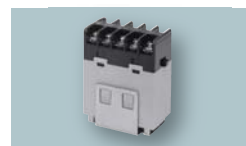
**Thermostat Relays**  
Omron's signal switching components deliver accuracy and reliability while saving space and power. Our signal relays are available in a multitude of packaging and mounting options for every design need.



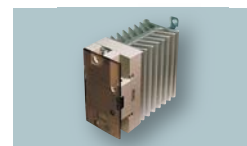
**Plug-in Style and Sockets**  
General power switching relays using an industry standard profile to provide several basic relay functions. Reliable switching from 1 mA to 15A and offering lockable test button, mechanical indicator, and standard faceplate.



**MOS FET Relays**  
The smallest, fastest precision components on the market, Omron's MOS FET relay line delivers the speed and accuracy needed for electromechanical equipment.



**Power Relays**  
An industry standard profile relay with PCB, plug in, and screw terminal/panel mount. These power relays are capable of reliably switching from 1 mA to 160A while driven by either AC or DC power.



**Solid State Relays**  
Compact, low cost, Solid State Power switching. From 5-90A, silent and reliable, with extremely long life even in elevated temperatures."

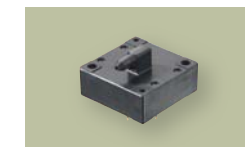
## SENSORS



**Clogged Filter Sensor**  
Compact, intelligent sensors featuring MEMS precision technology for repeatable airflow detection. Integral passive Dust Segregation System (DSS), developed by OMRON is compact and highly efficient.

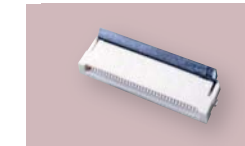


**Flow Sensors**  
High accuracy mass flow sensing. The new D6F detects both gas flow velocity and direction. The silicon thermal sensor consistently outperforms other sensor types.



**Pressure Sensors**  
Solid-state pressure sensors are available in analog, pulse, or frequency output signal. The DBM MEMS-based micro pressure sensors are specifically designed to detect very small changes in the pressure level.

## CONNECTOR

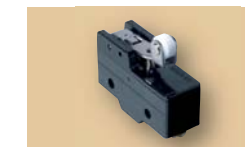


**FPC Connectors**  
The smallest and most reliable fine pitch cable connectors will offer you the design flexibility needed to maximize space and provide secure connections, using Omron's patented Rear Locking Mechanism

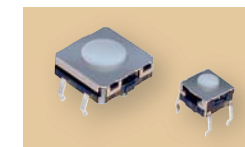
## SWITCHES



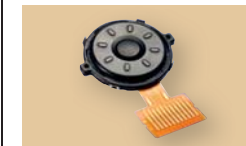
**Detection Switch**  
Sealed and unsealed snap-action switches are available with a variety of ratings, actuators and termination options. Sealed versions are rated to IP67 and are suitable for use in "wet" environments. Unsealed are rated to a durable IP50.



**General Purpose Snap Action Switches**  
Omron's high precision basic switch comes in a variety of styles. Snap action switches are available in general purpose and drip-proof types.



**Tactile Switches**  
Consistent switching characteristics offer excellent performance. Available with a wide variety of actuators, mounting styles, and switching capabilities.



**Combination Jog**  
The new Omron combination jog switch offers single user interface simplicity. Quickly and easily scroll through lists and make choices. Five tactile selector switches: a center push button, and four peripheral push points, are combined with a rotational jog feature.



**Domes/Dome Arrays**  
Available as single point of contact Domes or customizable Arrays. Provides crisp, tactile feedback for panel designs when coupled with your overlay and PCB design.

- Relays
- Sensors
- Connector
- Switches