

- » Innovative technologies
- » Powerful solutions
- » World-class automation products

# Omron Industrial Automation

Omron Industrial Automation is a \$7 billion worldwide, diversified manufacturing corporation. Our products help you improve the quality and efficiency of everything you make. Incredibly powerful, our proven industrial automation products deliver an extra measure of value in space-savings, convenience features, and down-time reducing diagnostics. Our broad product lines include compact power supplies, sensors, temperature / process controllers, and timers.

With more than 24,900 knowledgeable employees worldwide with proven engineering expertise, Omron delivers efficient, cost-effective industrial automation solutions to any manufacturing challenge.

## How we can help you

As a world-class manufacturer of industrial automation products celebrating 75 years of success, our sensing and control technologies can help you simplify design and reduce engineering effort and lower installation costs. It all adds up to providing greater productivity and a competitive advantage for you.

## Our Products

### Sensing Products:

- Photoelectric sensors
- Photomicrosensors
- Proximity sensors
- Limit switches
- Fiber-optic amps and cables

### Industrial Controls:

- Temperature/process controllers
- Timers and counters
- Power supplies
- Nano controller/Programmable relays



Photoelectric Sensor

## Sensing Products:

### Photoelectric Sensors

Omron's photoelectric sensors remain the industry standard. They provide the highest reliability for object and passage detection from short to long distances, in special environments, for special mounting conditions, special objects or special connectivity requirements.

### Target Markets

- Packaging/Food & Beverage
- Automotive
- Life Sciences

### Key Applications

- Conveyor flow control
- Detect PET bottles
- Sorting of parts in a bin feeder
- Counting of passing components

### Proximity Sensors

Omron's proximity sensors set the standard for ruggedness, reliability and application flexibility. Choose from one of the industry's widest selections of inductive, capacitive and ultrasonic proximity sensor models, all of which offer you no-touch object detection.

### Target Markets

- Packaging/Food & Beverage
- Automotive
- Life Sciences
- Material Handling

### Key Applications

- Positioning of workpiece on conveyor
- Discriminating between surface levels
- Counting of small parts
- Harsh environment detection
- Parts sorting
- Elevator positioning



Limit Switch



Proximity Sensor

## Photomicrosensors

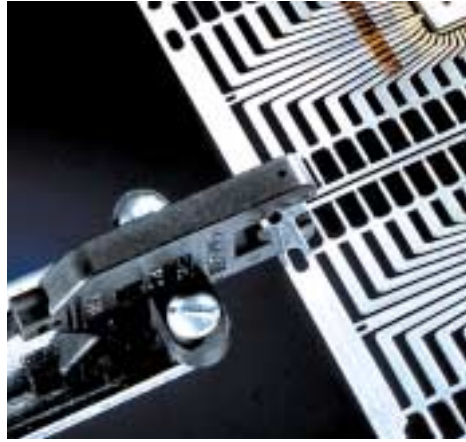
Our ultra-small photoelectric sensors provide reliable position sensing in a space-saving and cost-efficient package. Photomicrosensors are ideal for relatively clean manufacturing environments rated IP50 or better.

### Target Markets

- Semiconductor
- Machine Tool

### Key Applications

- Detect presence of semiconductor wafers
- Detect home and end-of travel positions on machine tool



Photomicrosensor



Temperature Controller

## Limit Switches

Omron's compact electromechanical limit switches are ideal in a variety of applications and environments because of their ruggedness, simple visible operation, ease of installation and reliability of operation.

### Key Applications

- End of travel applications
- Automotive positioning applications
- Platform and scissor lifts
- Industrial doors
- Packaging equipment
- Elevators
- Escalators

## Fiber-optic Amps and Cables

For high sensing performance with embedded intelligence for the most reliable operation and simple information sharing, choose the performance you need from our portfolio of advanced amplifiers and the wide range of sensor heads for even the most demanding applications.

### Target Markets

- Packaging/Food & Beverage
- Semiconductor
- Material Handling
- Life Sciences

### Key Applications

- Detecting glass substrates in baking ovens
- Label detection
- Inspection of food packages
- Area detection to screen positioning of irregularly shaped objects

## Industrial Controls:

### Power Supplies

Omron's family of power supplies offers several solutions to increase the reliability and safety of your application. Omron's line of power supplies have three distinct types including the slim, compact and modular which are all essential components for complete low voltage control solutions.

### Target Markets

- Packaging Machine Industry
- Material Handling Equipment
- Food & Beverage

### Key Applications

- Network and machine power monitoring
- Overall Equipment Effectiveness (OEE) or critical up-time
- Space-constrained high current

## Nano Controller/Programmable Relay

Omron's easy-to-use programmable relay offers precision and space savings for small scale control applications. The nano controller is the ideal solution for managing a wide range of simple applications and delivers the flexibility and functionality of separate timers, counters, and relays for control applications with up to 44 I/O.

### Target Markets

- Building facilities
- Factories

### Key Applications

- Access control
- Conveyor positioning
- Testing equipment
- Automatic lighting

## Temperature Controllers

Omron's general-purpose temperature controllers meet a wide range of application needs for food processing machines, packaging machines, extruders, semiconductor production equipment, and many other areas with high speed, high performance, easy settings, and easy-to-read displays.

### Target Markets

- Packaging and Plastics

### Key Applications

- Sealing of snack bag film as part of form/fill/seal machines
- Plastics extrusion temperature
- Blow molding temperature

## Timers/Counters

Designed, manufactured and tested to meet the most demanding worldwide standards and ratings, Omron's broad selection of timers and counters offer reliable design, quick replacements, panel space-saving and solutions.

### Target Markets

- Packaging Machinery
- Material Handling
- Key Applications
- Counting Batches

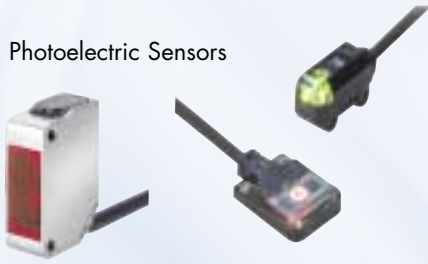
### Key Applications

- Timer repeat cycle for stamping or pressing as in a paper bundling/banding machine
- Timer using ON-delay function to allow time for all elements of a machine to reset before the next process.

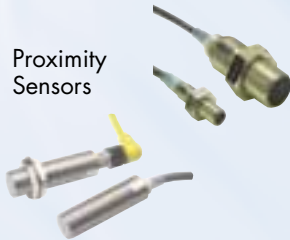
## Industrial Automation

### Sensing Products:

Photoelectric Sensors



Proximity Sensors

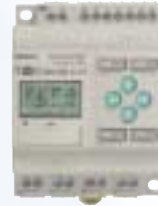


Limit Switches



### Industrial Controls:

Nano Controller/  
Programmable Relay



Power Supplies



Temperature Controllers

## Other Omron Companies

### Omron Electronic Components

Omron Electronic Components broad product offering can be found in a wide range of applications for markets worldwide, such as communications, transportation, medical, HVAC, appliance, industrial automation to name a few. With a reputation for quality and reliability in switches and relays, Omron is always setting new standards. Omron Electronic Components product solutions include general purpose relays, PCB relays and snap action switches.

### Omron STI

Omron STI provides safeguarding solutions that meet your needs for safety and productivity. As a combination of STI safety knowledge and Omron automation experience with a focus on making safety work for you, the new Omron STI also provides experienced assistance and guidance in application, integration and maintenance. The Omron STI line includes rope pull emergency stop switches, safety interlock switches, safety mats and safety light curtains.

# OMRON

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