FACTORY AUTOMATION MANUFACTURING SOLUTIONS

Our sensors and switches transform your business further.

DISCOVER THE DIFFERENCE
Honeywell Factory Automation ebook was designed for the curious reader. Using the navigation bar at the top, explore the various factory automation solutions to learn more about Honeywell sensors, switches and controls.

Honeywell focus products are contained in a grey circle with red outline; there’s a focused product overview on each. Supporting Honeywell products are contained in a grey circle; there’s more information on them in the Product Quick Snaps section.

On these pages, the navigation icons will help the reader learn more about the products, as well as explore further on the product datasheet and web link.
Now more than ever, efficient automation of your factory is increasingly important – and increasingly challenging. The global pandemic and its aftermath created some issues and uncovered others that were already percolating. For example, with fewer available workers and many current folks planning to retire, the need to make your machinery work harder is no longer optional for increased output as well as improved cost competitiveness and delivery times. In the supply chain – now a regular topic on news programs where it received little attention in the past – manufacturers are facing raw materials and component shortages, extended lead times, and rising prices. Add surging energy costs and an explosion of new regulations around the world, and you’ve got your hands full…and then some.

That’s where Honeywell delivers. With over a century of experience on the factory floor, our MICRO SWITCH limit switches – including HDLS Heavy Duty Limits, BZE6 Enclosed Limits, 914CE Limits, GLS Global Limits and NGC Limits – really have no limits when you need versatility, enhanced performance, productivity and increased safety in your limit switch applications. The same is true for our cable pulls, pressure switches and sensors, magnetic sensors, temperature sensors, force sensors and manual controls like toggle switches and pushbuttons. In basic switches, we invented the original MICRO SWITCH product and every year we manufacture over 120 million of these simple, superior, irreplaceable devices.

We can help ensure that your equipment works hard to keep your automated lines going strong. From CNC fabricating machines, conveyors, and pallet and packaging machinery to high-tech robotics and 3D printers, our vast product array and global engineering support can meet your harshest, most exacting sensing and switching requirements with precision, reliability, and industry-leading solutions. Whether you’re bending, grinding, shaping, moving, cutting, mixing, batching, assembling, or testing, we have you covered because when it comes to factory automation, we can put it all on the line. Your line.
According to a report by Markets & Markets, the industrial control and factory automation market size is projected to reach USD 218.8 billion by 2027 from an estimated USD 147.9 billion in 2022, at a CAGR of 8.2% from 2022 to 2027. Their researchers cite drivers of an emergence of connected enterprises and requirement of mass manufacturing to products, along with government initiatives to promote industrial automation.

There’s a significant opportunity in the industry regarding safety compliance. Industrial manufacturing inherently involves a number of hazardous processes. Safety compliance in automated processes help reduce the risk for accidents and loss of productivity.

Another area of opportunity surrounds 3D printers as this segment is projected to register the highest CAGR (29.48%) from 2021 to 2026. This segment is rapidly growing due to increased adoption in a number of industries, including aerospace and defense, food & beverage and electronics. The ability of 3D printers to replicate light-weight, cost-conscious parts with high precision makes them very appealing to aerospace and defense manufacturers.

And then there’s robotics... Statista examined the role of robotics in factory automation. Globally, there are 2.7 million industrial robots working; in 2028, the market size is projected to surpass 165 billion U.S. dollars. Articulating robotic arms have been used for years in manufacturing environments but are now finding to be very useful in warehouse applications. The way forward is to combine the strength of robotics with human decision making and skills to create a collaborative workplace.

Honeywell is looking to the future and much further beyond. The future of factory automation continues to grow... and Honeywell will be strong and viable partner as these markets continue to evolve.
Factories, warehouses, and distribution centers often encounter temperature variations due to the number of machines running and the weather conditions outside. Equipment must adjust for these temperature variations to maintain safe and efficient operations. Honeywell MICRO SWITCH cable-pull switches can adapt to these variations to keep conveyor lines running smoothly and safely.
According to the Bank of America, it is estimated that by 2025, 45% of all manufacturing tasks will be executed by robotic technology. If the packaging sector hadn’t been an early adopter of automation, it would have struggled through the pandemic. That’s not to say that the situation has been easy, but it could’ve been much worse without robotics. Facilities that took full advantage of automation have fared best. Robotics use cases in the warehousing and packaging industry have helped to protected workers, upheld efficiency, decreased errors and made facilities more flexible.
Increasing customer demands for quality, speed and security across supply chains has driven optimization in packaging operations. According to Future Market Insights, in 2022, the global market stood at USD 412.5 Million and is estimated to reach a valuation of more than USD 509.9 Million by end of the forecast period (2027). Packaging and pallet equipment must be able to perform in harsh, temperature-varying environments with high levels of shock, force and vibration.

5 https://www.futuremarketinsights.com/reports/pallet-stretch-wrapping-machines-market
Mordor Intelligence reports, “The Computer Numerical Controls (CNC) Market was valued at USD 7.87 billion in 2020 and is expected to reach USD 9.53 billion by 2026, at a CAGR of 3.3 %. The increase in demand for productions efficiency will drive the market in the forecast period.” 6 CNC Machines are a vital piece of automation equipment. The environment around the machining process is generally very dirty. Often cutting fluids are splattered about, and debris from the machining process are thrown from the work pieces as they are being processed. Typically, there is a lot of vibration and shock associated with the moving parts of the machine.

6 https://www.mordorintelligence.com/industry-reports/computer-numerical-controls-market
Industrial 3D printing technology is moving from just prototyping to high-volume production. Morder reports that the 3D printing market was valued at USD 13.7 billion in 2020, and it is expected to reach a value of USD 63.46 billion by 2026, at a CAGR of 29.48%. To meet with demanding conditions and environments, 3D printers require small but reliable switches and sensors. Long life and precision are required to perform in these applications.

[7 https://www.mordorintelligence.com/industry-reports/3d-printing-market]
To view more details on Honeywell factory automation focus products, please click on the product(s) above you wish to explore more.
HEAVY-DUTY LIMIT SWITCH HDLS SERIES

Ideal for many applications with demanding indoor and/or outdoor environments, where they may be subjected to shock or vibration from equipment, temperature extremes, dust, splashing water, coolant, and/or hose-directed water

- Position sensing for various moving parts to indicate end of travel
- Sense the presence of moving parts
- Indicate position for system controls
- Sintered bronze bearing on 303 stainless steel operating shaft for enhanced mechanical life (up to 50 million actuation cycles) and operational reliability

Machine tools
Material handling
Conveyors
Valves

- Automotive machine tools
- Outdoor electromechanical structures
- Food and beverage
Dual bearings deliver enhanced mechanical life.

Bronze bearing on operating shaft for enhanced mechanical life.

One-piece flat gasket.

Metric and standard unit conduit threads available.

Diaphragm separates head and body:
- NEMA 1, 3, 4, 4X, 6, 6P, 12, 13
- and IP65/66/67

Plug-in and non-plug-in versions available.

Unique, all-metal drive train.

Rugged housing, superior switch.

Exclusive teller tab ensures proper torque.

• Boss-and-socket head design for secure head-to-body retention
• Self-lifting pressure plate terminals save wiring time
• Twin shaft seals for an extra measure of protection. Optional fluorocarbon or fluorosilicone seals.
COMPACT PRECISION LIMIT SWITCH
BZE6 SERIES

Preferred for applications where there could be exposure to liquid and/or particulate environments. The compact size of these sealed limit switches permits installation where there is limited space available on equipment.

- Position sensing for various moving parts to indicate end of travel
- Sense the presence of moving parts
- Indicate position for system controls

Designed with MICRO SWITCH BZ, BM or DT basic switches to deliver precise switching of electrical and mechanical operating characteristics.

- Packaging equipment (balers, door interlocks)
- Air curtains (control of air movement)
- Conveyors (diverters, gates)
E6/V6 SWITCHES
IT’S WHAT’S INSIDE THAT COUNTS.

- Wide variety of actuator options. SPDT or DPDT
- Flexible boot seal: NEMA 1, 3, 4, 12
- Removable terminal enclosure for easier wiring
- Rugged, electrostatic epoxy-coated metal housing
- Switching mechanism is the original MICRO SWITCH BZ switch that provides precision electrical and mechanical operating characteristics in a durable, die-cast housing
- Also, the switch is replaceable

- Small package size
- Proven reliability
- Designed for industrial applications
- Precise switching mechanism for increased repeatability

Removable base.
Liner seals the cavity

Flexible boot seal: NEMA 1, 3, 4, 12

Removable terminal enclosure for easier wiring

Rugged, electrostatic epoxy-coated metal housing

Switching mechanism is the original MICRO SWITCH BZ switch that provides precision electrical and mechanical operating characteristics in a durable, die-cast housing

Also, the switch is replaceable
Rugged and versatile switches which can be applied indoors in many harsh factory floor applications, as well as on outdoor equipment in extreme temperatures. A full range of actuators are available

- Position sensing for various moving parts to indicate end of travel
- Sense the presence of moving parts
- Indicate position for system controls
- Delivers consistent performance in many demanding environments where petroleum, synthetic, or water-based fluids are present
- Machine tools
- Material handling
- Access and mobility solutions
- Robotics
- Print trade machinery
- Off-road equipment
- Dock locks and dock levelers
- Textile machinery
- Packaging equipment
- Agricultural machinery
Gang-mountable and stackable

25 mm mounting hole pattern

Plunger o-ring sealed

Potted, epoxy-coated, metal housing, sealed to IP67

Side- and bottom-exit cable or connectors

Switching mechanism is the MICRO SWITCH SM switch that provides precision electrical and mechanical operating characteristics in a durable, die-cast housing

• Compact switch housing for application adaptability
• Multitude of actuating options
• Cable length variations
• Designed for Industrial applications and for where space is at a premium
• UL, CSA, CE
Global Limit Switch
GLS Series

Modular design (heads/actuators, bodies, and contact blocks) of the limit switch allows for rapid response to meet customer applications.

- Position sensing for various moving parts to indicate end of travel
- Sense the presence of moving parts
- Indicate position for system controls

Side rotary actuator incorporates dual bearing design which prevents side loading during operation. Modular design of limit switch (heads/actuators, bodies, and contact blocks) allows for rapid customization and delivery.

- Automotive assembly lines and machining centers
- Agriculture equipment
- Doors and apertures
- Machine tools
- Valves
- Machine tool equipment
- Conveyors
- Material handling
- Scissor/platform lifts
- Material handling

Modular design (heads/actuators, bodies, and contact blocks) of the limit switch allows for rapid response to meet customer applications.
GLS SWITCHES
IT’S WHAT’S INSIDE THAT COUNTS.

Complies with NEMA 1, 3, 4, 6P, 12, 13

- Head positionable in 90° increments
- Direct-acting contact options
- Conduit threads: 1/2-14 NPT, 20 mm, and PG13.5
- Rugged with durable gasket to IP65/66/67 sealing
- Removeable contact block for easy wiring
- Ensured to IP65/66/67 sealing
- Metal and plastic housings available

- Designed to IEC standard for world-wide applications
- Modular construction reduces maintenance parts costs
- Engineered for ease of installation
- Variety of basic switches and actuators

GLA

GLD
MINIATURE LIMIT SWITCH
NGC SERIES

Configurable platform of medium-duty switches that allow the customer to choose SPDT or DPDT circuitry while maintaining the same housing and mounting footprint

- Position sensing for various moving parts to indicate end of travel
- Sense the presence of moving parts
- Indicate position for system controls

- Can be configured more than 380,000 ways, carries global approvals and are sealed to IP67 for potential use in indoor and outdoor applications

- Boom position detection
- Machine tools
- Mobile light towers
- Packaging equipment
- Doors
- Scissor lifts
NGC SWITCHES
IT’S WHAT’S INSIDE THAT COUNTS.

- Direct-acting contacts
- UL, CSA, CE
- Compact switch for application versatility
- Versatile, indoor and outdoor use
- Used on many applications ranging from industrial floor to solar power devices.

Lever arms adjustable 360°

20 mm mounting hole pattern

Snap-action and slow-action contacts

Potted, epoxy-coated, metal housing, sealed to IP67

Side- and bottom-exit cable or connectors
SAFETY CABLE-PULL SWITCHES

CPS SERIES

Provides a readily accessible emergency stop signal; a cost-effective means compared to using multiple emergency stop push-buttons

- Are used to provide required emergency stop signaling along the conveyor line for personal safety protection
- Performs perimeter guarding around the work cell to provide emergency stop protection

- Cost-effective means of providing an emergency stop signal compared to multiple emergency stop push buttons
- Capability enhances productivity by minimizing nuisance stops due to variations in temperature, stretch of cable over time, or other application variables

- Long conveyor systems found in warehouses & distribution centers
- Conveyor systems with a high amount of vibration and/or experience wide temperature swings
- Long conveyor systems where easy-through wiring, or highly visible trip status, is required
- Perimeter guarding in hose-down conditions
- Packaging equipment
- Assembly lines

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External mounting holes for easy installation and maintenance access.

Added an optional rear conduit port for easier wiring. Eliminates looping cable that’s prone to damage.

Robust, electrostatic, epoxy-coated, die-cast aluminum housing.

Improved indicator light provides more intensity and better side viewing.

Three voltage options for indicator light: 24 V, 120 V, 240 V.

Support cable runs of 500 ft (250 ft each direction).

Wide tolerance zone for cable tensioning reduces nuisance unit trips caused by expansion and contraction of the cable.

Optional E-stop button, reset button and Indicator light. Many configurations in one package.

Redesigned cable tension window clearly indicates proper cable tension.

Latches on both slackened and pulled cable.

Note: Reset knob will be blue on production version.

Latches on both slackened and pulled cable.

Reset button mounted to base of unit. Allows replacement of the cover without any rewiring.

Large wiring cavity with straight-through wiring.

Front cover made of plastic for less costly replacement if unit is damaged.

Direct opening, snap-action contacts.

Configurations for 2NO/2NC, 1NO/3NC and 4NC contacts.

Robust, electrostatic, epoxy-coated, die-cast aluminum housing.

Three voltage options for indicator light: 24 V, 120 V, 240 V.

Support cable runs of 500 ft (250 ft each direction).

Wide tolerance zone for cable tensioning reduces nuisance unit trips caused by expansion and contraction of the cable.

Front cover made of plastic for less costly replacement if unit is damaged.

Reset button mounted to base of unit. Allows replacement of the cover without any rewiring.

Robust, electrostatic, epoxy-coated, die-cast aluminum housing.
TOGGLE SWITCHES
- Used for operator controls where momentary or maintained switching action is needed for precise control of the system

E-STOP SWITCHES
- Used for operator control assemblies and custom-operator interfaces

KEY & ROTARY SWITCHES
- Used for operator control assemblies and custom-operator interfaces

PUSHBUTTON SWITCHES
- Used for operator control assemblies and custom-operator interfaces

BASIC SWITCHES
- Can be used as access panel interlocks. If an access panel is open, the switch can prevent the machine from operating.
- Indicates end of travel
- Used for operator control assemblies in the form of pushbuttons and custom-operator interfaces
- Can be used to count packages as they pass on conveyors

PRESSURE SWITCHES
- Monitors lubricating oil lines to ensure they are full and at the right pressure

SAFETY INTERLOCK LIMIT SWITCHES
- Provide required emergency stop signaling along the conveyor line for personal safety protection
INDUSTRIAL SENSORS & OPTICAL ENGINES

HEAVY-DUTY PRESSURE TRANSDUCERS
- Monitors lubricating oil lines to ensure they are full and at the right pressure
- Control the direction of packages coming down the conveyor

BOARD-MOUNT PRESSURE SENSORS
- Measure the pressure of the air or fluid in the lines that are used to lubricate or provide power to robotic equipment
- Monitor pneumatic pressures to ensure the system is at specified operating level

BACK-BIASED HALL-EFFECT SENSORS
- Detects the speed of a ferrous gear-tooth target wheel or ferrous disk with a hole pattern
- Often used to determine position and control fan
- Position and fan applications

FORCE SENSORS
- Robotic equipment
- Force/grip measuring equipment
- Load and compression sensing
- Touch panels
- Switch replacement
- Weight measurement

HALL-EFFECT MAGNETIC ICs
- Speed and position indicators
- Linear and angular position sensing
- Help maintain a high level of accuracy and precision
- Sensing of motor/fan control

THERMISTORS
- Provide temperature measurement to ensure operating conditions are at adequate levels
- Integrated into temperature chambers for product testing to ensure temperature is maintained at proper levels
- May be used on extrusion nozzles to ensure they are within operating condition and requirements

OPTICAL SCAN ENGINES
- Identify and track processed parts
- Can be used to support the automatic calibration of tools
- Enable robots to track and trace the manufacturing of subassemblies and goods on manufacturing lines
- With software, they automatically identify, read and transmit barcode information of goods on the conveyor

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WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship during the applicable warranty period. Honeywell’s standard product warranty applies unless agreed to otherwise by Honeywell in writing, please refer to your order acknowledgment or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items that Honeywell, in its sole discretion, finds defective. The foregoing is buyer’s sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages. While Honeywell may provide application assistance personally, through our literature and the Honeywell web site, it is buyer’s sole responsibility to determine the suitability of the product in the application. Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this writing. However, Honeywell assumes no responsibility for its use.