

**Honeywell**

THE POWER OF **CONNECTED**

**ANALOG**

## **Making Sense of Sensing**

Cutting Edge Sensing Technology  
for the Connected World



# Sense the Opportunities

**F**rom medical to transportation, from industrial to aerospace, sensors are everywhere. These foundational devices collect the essential data customers need to make informed decisions and take action.

Honeywell is a leading global supplier of custom-engineered sensors, switches, machine safeguarding, and other devices offering enhanced precision, repeatability, and durability to a variety of original equipment manufacturers. We are taking the next step to advance our sensing technology by adding cutting-edge intelligence capabilities from the Internet of Things and cloud-based computing to our sensors.

## MicroPressure, MPR Series

Honeywell MicroPressure, MPR Series board mount pressure sensors provide industry leading performance, accuracy, and reliability. The ultra-small amplified sensor is fully calibrated, temperature compensated, and liquid media compatible with a digital output.

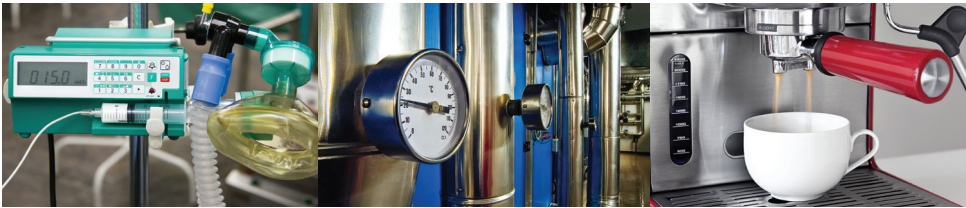


### Features

- Proprietary Honeywell technology
- Ultra-small and lightweight
- High accuracy, resolution, and stability
- Pressure range: 60 mbar to 2.5 bar
- Liquid media compatible

### Benefits

- Enhances equipment performance
- Enables new designs and applications
- Ideal for medical, industrial, and consumer applications
- Ideal for portable equipment
- Ideal for battery-powered applications
- Reduces design-in time and costs



### Medical

- Anesthesia machines
- Kidney dialysis
- Respiratory machines
- Sleep apnea equipment
- Spirometers
- Nebulizers

### Industrial

- Gas flow instrumentation
- HVAC filter detection
- Boiler application
- Air quality meters
- Pressure meters

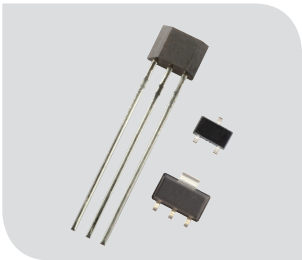
### Commercial

- Washing machines
- Dishwashers
- Coffee machines
- Humidifiers
- Air beds

[www.arrow.com/en/campaigns/honeywell-sensor-npi](http://www.arrow.com/en/campaigns/honeywell-sensor-npi)

# Honeywell High Sensitivity Magnetoresistive Sensors

A suitable alternative to reed switches in applications where traditionally used.



## Features

- 7 Gauss typical sensitivity
- Surface mount SOT-23 housing
- Stable over entire operating temperature range
- Solid state technology
- Plastic moulded housing
- Ultra low power 360 nA version

## Benefits

- Similar or higher sensitivity
- Smaller than equivalent reed switches
- More reliable magnetic characteristics
- Does not wear out over time
- More robust than glass bulbs
- Suitable for battery operated devices



## Flow Sensing, Including Smart Utility Meters

- Counting mechanism
- Anti-tamper switches
- Solenoid valves with embedded flow meter

## Building Access and Security

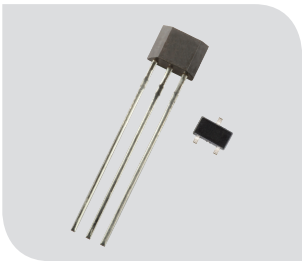
- Door/window alarm sensors
- Smart home connected applications
- Smart handles
- Digital key locks

## White Goods and Power Tools

- Door/lid position detection
- Liquid level and flow monitoring for washing machines and dishwashers
- Selector switch on battery operated light appliances/DIY and gardening power tools

# Honeywell Low Gauss Latch Hall-effect Sensors SS360/460 Series

The solution for highly efficient brushless DC motors.

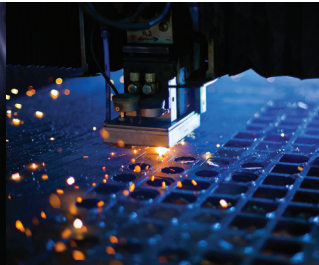


## Features

- High sensitivity (30 Gauss typical)
- Stability over temperature
- Fastest response time
- Better repeatability or jitter
- No chopper stabilisation
- AECQ-100 version for automotive

## Benefits

- Design flexibility
- Reliability over full operating temperature
- Less accuracy and commutating issues
- Simpler design
- No electrical noise
- Suitable for automotive applications



## White Goods

- Fans
- Water pumps
- Washing machines and dryer drums
- Vacuum cleaner motors

## Automotive

- HVAC blowers
- Seat motors
- Windshield wipers
- Window lifts
- Tachometers

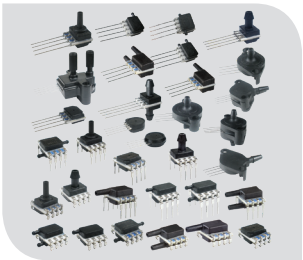
## Factory Automation

- CNC machines
- Wrapping machines
- Sorting, handling, and conveying systems



# Board Mount Pressure Sensors

Honeywell board mount pressure sensors provide industry leading performance, accuracy, reliability, and value. Our extensive portfolio is offered with a wide choice of ports, package types, outputs, and pressure ranges.



## Features

- Proprietary Honeywell technology
- Industry-leading performance and accuracy
- Extensive portfolio (>1M configs)
- Small form-factor and lightweight
- Low power consumption
- Evaluation/sample kits

## Benefits

- Enhances equipment performance/accuracy
- Ideal for medical, industrial, and consumer applications
- Ideal for portable equipment
- Ideal for battery-powered applications
- Reduces design-in time and costs



## Medical

- Anesthesia machines
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- Spirometers
- Nebulizers

## Industrial

- Gas flow instrumentation
- HVAC filter detection
- Boiler application
- Air quality meters
- Pressure meters

## Consumer

- Washing machines
- Dishwashers
- Coffee machines
- Humidifiers
- Air beds

# Particle Sensors

Particle sensors play a critical role in measuring and managing the quality of air we breathe to help protect our health.



## Features

- Accuracy:  $\pm 15\%$
- <6s response time
- 20,000 hours continuous use
- Stand-by option

## Benefits

- Repeatability and consistency of readings
- Real time readings
- Industry leading long life
- Reduces power consumption and increases sensor life



## HVAC

- Air conditioners
- Air quality monitors



## Consumer Products

- Air cleaners
- Air conditioners
- Air purifiers
- Car air cleaners
- Indoor air quality



## Environmental Monitoring

- Weather stations
- Public displays
- Handheld air quality detectors

# Transportation Attitude Reference Sensors (TARS-IMU)

High performance inertial measurement unit (IMU), reports vehicle angular rate, acceleration, and inclination (6 degrees of freedom).



## Features

- High performance and accuracy, angular range:  $\pm 85^\circ$  ( $\pm 0.06^\circ$ )
- Ruggedized package with IP69K sealing
- Industry standard CAN (J1939) connectivity
- Custom sensor fusion filtering
- Low power consumption

## Benefits

- Designed for heavy duty off-highway transportation industry
- Enhances equipment/vehicle productivity, efficiency, and safety
- Highly cost effective
- Easy to install and use



## Heavy Duty

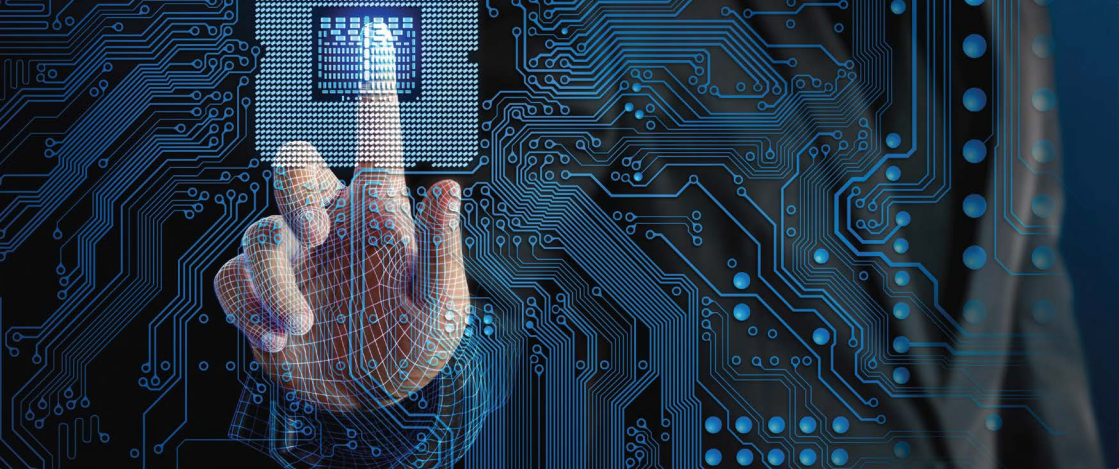
- Trucks
- Excavators
- Cranes
- Backhoes
- Drilling rigs

## Agriculture

- Tractors
- Grape harvesters
- Combine harvesters
- Plough/spray heads

## Fire Safety

- Forklifts
- Scissor lifts
- Platform lifts
- Fire engines



**D**iscover the potential of Honeywell Sensor Solutions, high-performance devices optimized for a variety of applications in commercial, medical, and industrial fields. Honeywell solutions are flexible and tailored to exact specifications — for stronger performance, longer productivity, and increased safety. And it all adds up to reduced expenditures and operational costs.

For more information on Honeywell Sensing and Internet of Things visit:  
**[www.arrow.com/en/campaigns/honeywell-sensor-npi](http://www.arrow.com/en/campaigns/honeywell-sensor-npi)**.

### **Honeywell tools available in Arrow Testdrive**

To get more information or let us know you're ready to take a spin with one of our development tools, ask your Arrow sales representative or simply e-mail us at [testdrive@arroweurope.com](mailto:testdrive@arroweurope.com). Samples also available through your Arrow Honeywell contact.

### **CONTACTING ARROW**

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