# Honeywell

## **Sensors and Switches in Front Loaders**





# Work Smarter with Honeywell Sensors and Switches

### Work smarter with...

Honeywell sensors, switches, and controls can be found throughout vehicle bodies such as front loaders, buses, locomotives, ambulances, trucks, etc. They are used as operator/ride controls, automation guides, asset trackers, and provide security and comfort. Honeywell shifters, key switches, limits, SMART position sensors, temperature and pressure sensors are rugged, reliable, and backed by Honeywell's engineering expertise. Honeywell heavy-

### **Comfort/safety**

- Cabin climate and temperature maintained with ES-110 Series and LTP Series packaged temperature probes
- Limit front loader operability by operator certification level with SMART key
- Back-up alarm controlled by MICRO SWITCH BZE Series basic switch
- Door position sensed by 103SR Series Hall-effect position sensor
- Hydraulic braking system monitored with PX2 Series, MLH Series, SPT Series, 13 mm Series, and 19 mm Series heavyduty pressure transducers
- Vehicle and load non-contact absolute position sensing with SPS Series SMART position sensors
- Emergency stop originated by MICRO SWITCH 87000 Series push-pull switch
- Fire suppression monitored with 3000 Series thermostats
- Stability control, remote mirror with memory control, and power steering control using SS490 Series linear Hall-effect position sensor ICs
- Level sensing for cab position using MICRO SWITCH GLS Series limit switches
- Vehicle angular rate, acceleration, and inclination reported by Transportation Attitude Reference Sensor (TARS Series) Ruggedized Inertial Measurement Unit (IMU)

### High reliability

 Hydraulic oil temperature measured with R300 Series and LTP Series packaged temperature probes

duty equipment manufacturers' needs include productivity, high reliability, comfort,

safety, and simpler operations for lessskilled operators. Honeywell provides these

 Hydraulic pump and wheel speed measured with VRS Series, LCZ Series, SNDH-T Series, and SNG-Q Series speed sensors

and much more.

- Engine use tracking with 85000 and 98000 hour meters
- Engine on/off controlled with three-position key switches

### Productivity

- Vehicle direction and indication controlled by multipurpose turn signal and 81248 forward-neutral-reverse shifter
- Bucket position detection provided by MICRO SWITCH Series NGC Series compact limit switches

### **Simpler operations**

- Fuel tank level sensing conducted with PX3 Series, MLH Series, 13 mm Series, 19 mm Series, and SPT Series heavy duty pressure transducers
- Manual operator switches throughout the cab utilize MICRO SWITCH toggle switches
- Power steering control with SS490 Series linear Hall-effect position sensor ICs
- Power seat motor controlled by SS400 Series Hall-effect bipolar position sensor ICs

### FOR MORE INFORMATION

Honeywell Advanced Sensing Technologies services its customers through a worldwide network of sales offices and distributors. For application assistance, current specifications, pricing or the nearest Authorized Distributor, visit sps.honeywell.com/ast or call:

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> While Honeywell provides application assistance personally, through its literature and the Honeywell Web site, it is up to the customer to determine the suitability of the product in the application.

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