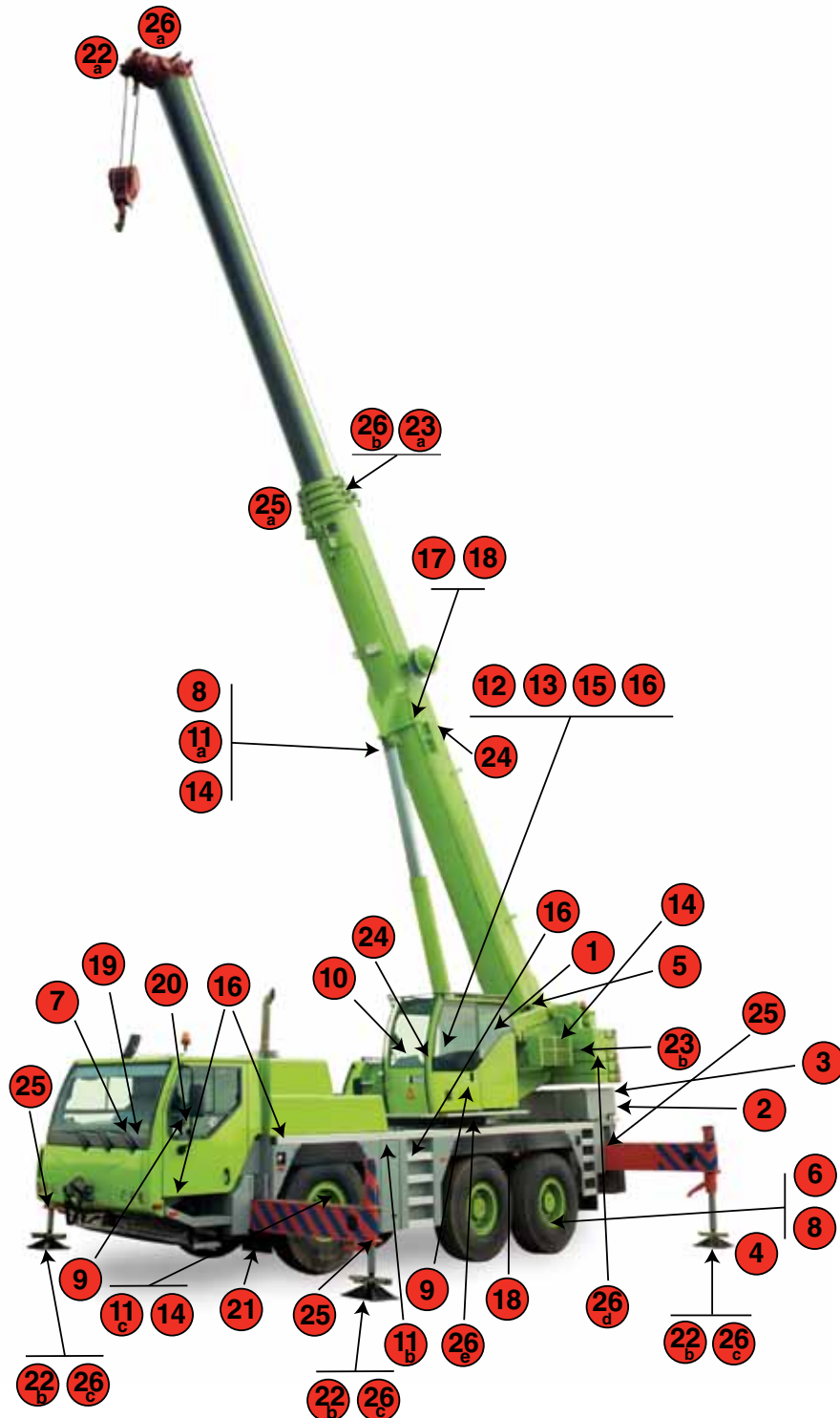


## Work Smarter with Honeywell Sensors and Switches



- 1 Temperature sensor**  
(Cabin temperature sensing) – ES-110 Series
- 2 Temperature sensor**  
(Hydraulic oil temp sensing) – R300 Series
- 3 Thermostat**  
(Fire suppression sensing) – 3000 Series
- 4 Position sensor**  
(Jack position sensing) – 103SR Series
- 5 Position sensor**  
(Boom angle position sensing) – SPS Series\*, RPN Series
- 6 Speed sensor**  
(Wheel speed sensing) – 3000 Series VRS, GTN Series, SNDH Series, SNDJ Series
- 7 Angular or linear Hall-effect position sensor IC**  
(Power steering control system sensing) – APS00B Series, SS490 Series, RPN Series
- 8 Speed sensor**  
(Wheel and hydraulic pump speed sensing) – LCZ Series
- 9 Smart key**  
(Limits crane function by operator's certification level)
- 10 Infrared sensor**  
(Hand-grip joystick control sensing) – SMD2440 Series, SME2470 Series
- 11 Stainless steel media isolated pressure sensor**  
**11a.** (Hydraulic sensing); **11b.** (Fuel tank level sensing); **11c.** (Braking system sensing) – MLH Series, 13mm Series, 19 mm Series, SPT Series
- 12 Hour meter**  
(Usage tracking) – 85000 Series Quartz plus or 98200 Series LCD
- 13 Key switch**  
(On/off switch)
- 14 Pressure switch**  
(Hydraulic system and engine oil monitoring) – Series 5000
- 15 Push-pull switch**  
(Emergency stop)
- 16 MICRO SWITCH™ toggle switch**  
(Manual operator switch) – NT Series
- 17 MICRO SWITCH™ limit switch**  
(Machine position) – HDLS Series
- 18 MICRO SWITCH™ limit switch**  
(Jib, wheel block and outrigger position indicator) – GLS Series
- 19 Shifter**  
(Forward-neutral-reverse) – 81248
- 20 Turn signal**
- 21 SMART position sensor**  
(Steering angle sensing) – SPS Series\*
- 22 Load cell or load pins**  
**22a.** (Hook load sensing); **22b.** (Outrigger load sensing—minimum of 4 outriggers, maximum of 6)
- 23 Load cell**  
**23a.** (Torsion or boom side load sensing); **23b.** (Provides counterweight information to operator)
- 24 Load pin**  
(Replaces hydraulic cylinder pins)
- 25 Stainless steel media isolated pressure sensor or Test & Measurement pressure sensor**  
(Outrigger load sensing – minimum of 4 outriggers, maximum of 6) – MLH Series
- 26 Limitless™ switch**  
**26a.** (Replaces wired 2-block jib switch); **26b.** (Boom position sensing: full extension, full retraction); **26c.** (Outrigger position sensing: full extension, half extension, fully retraction); **26d.** (Confirms mechanical locks are in place); **26e.** (Adjustable minimum/maximum cab position sensing)



# Work Smarter with Honeywell Sensors and Switches

## Work smarter with...

Honeywell S&C's superior switch, sensor, and vehicle controls have powered the transportation industry for 75 years, with high-performing parts and applications. Our extensive portfolio includes a multitude of products for engine and transmission applications, as well as temperature sensors, ignition switches, turn signals, headlights--providing enhanced reliability and improving durability in most harsh environments.

Our heavy-duty equipment manufacturer customers' needs include higher accuracy, superior reliability, and enhanced safety. Honeywell's products provide that and more.

## Higher accuracy

- Angle or linear position sensing with APS00B Series, SS490 Series, and RPN Series Hall-effect position sensor ICs
- Engine usage tracking with 85000 Series Quartz Plus Series and 98200 Series LCD display hour meters
- Hydraulic, brake, and fuel-tank level sensing with MLH Series, 13mm Series, 19mm Series, and SPT Series stainless steel media isolated pressure sensors
- Hand-grip joystick control sensing with SMD2440 Series or SME2470 Series infrared sensors
- Wheel and hydraulic pump sensing with LCZ Series speed sensors
- Wheel speed sensing with 3000 Series VRS, GTN Series, SNDH Series, and SNTD Series speed sensors

## Productivity

- Hook load sensing with load cells or load pins
- Replace wired 2-block jib switch with Limitless™ switch
- Boom position sensing (full extension, full retraction) with Limitless™ switch
- Outrigger position sensing (full extension, full retraction) with Limitless™ switch

## Superior reliability

- Power steering control system sensing with APS00B Series, SS490 Series, and RPM Series Hall-effect position sensor ICs
- Jib extension monitoring with MICRO SWITCH™ heavy-duty limit switches

## Find out more

To learn more about Honeywell's sensing and control products, call

**+1-815-235-6847**, email inquiries to

**info.sc@honeywell.com**, or visit

**www.honeywell.com/sensing**

## Honeywell Sensing and Control

1985 Douglas Drive North

Golden Valley, MN 55422

www.honeywell.com

- Throttle, brake, and clutch position sensing with rotary position sensors
- Hydraulic system and engine oil monitored with Series 5000 pressure switches
- Cabin temperature sensing with ES-110 Series temperature sensors

## Enhanced safety

- Fire suppression sensing with 3000 Series thermostats
- Emergency stops using push/pull switches
- Jack position sensing with 103SR Series position sensors
- Boom angle position sensing with SPS Series SMART position sensors or RPN Series position sensors
- Hydraulic oil temperature sensing with R300 Series temperature sensors
- Steering angle position sensing with SPS Series SMART position sensors
- Torsion or boom side load sensing with load cells
- Replace hydraulic cylinder pins with load pins
- Counterweight sensing with load cells
- Outrigger load sensing with load cells or load pins
- Outrigger load sensing and crane level sensing with MLH Series stainless steel media isolated pressure sensors and test and measurement pressure sensors
- Limit crane operability by operator certification level with SMART key
- Confirm mechanical locks are in place with Limitless™ switch
- Minimum/maximum cab position sensing with Limitless™ switch

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.

# Honeywell