



# Angle, Length & Slew Sensors

Wireless & Cable-Based  
Angle, Length & Slew  
Monitoring & Indication

# TRIMBLE LIFTING SOLUTIONS ANGLE, LENGTH & SLEW SENSORS

Wireless & Cable-Based Options

LSI-ROBWAY  
IS NOW  
TRIMBLE LIFTING  
SOLUTIONS



GS010 Wireless  
Angle Sensor

GS010  
Angle  
Sensor  
Options:

- BOOM ANGLE**  
(-90° to +130°)
- 360°**
- LIST & TRIM**  
(-45° to 45°)
- OUT OF LEVEL**

## Wireless Angle Sensor design features include:

- Operating temperature: -30°F to +180°F (-34°C to +82°C)
- Can be left hand or right hand cab mounted, sensor automatically adjusts
- Transmission range: 4,300 feet (1,300 meters)
- Typical accuracy: 0.5°
- Available as a dual axis inclinometer
- Potted electronics for increased waterproof protection
- Ideal for monitoring: main boom angle, luffing jib angle, list & trim, out of level, live mast, barge list angle and more



Cable-Based  
Boom Angle Sensor

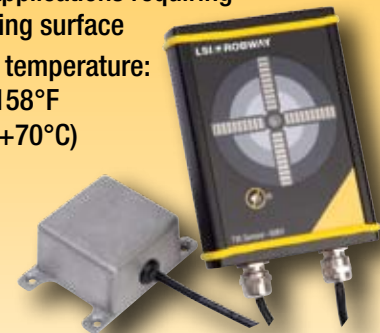


## Cable-Based Boom Angle Sensor design features include:

- Range: 0° to 90°
- Operating temperature: -4°F to +140°F (-20°C to +60°C)
- Accuracy: ±0.2°
- Ideal for offshore pedestal cranes

## Cable-Based Tilt Sensor design features include:

- Ideal for applications requiring a level lifting surface
- Operating temperature: -4°F to +158°F (-20°C to +70°C)
- Sensing range: ±5° in both axes



Cable-Based  
Tilt Sensor

The slew angle is the angle of rotation of the crane boom (upper) relative to the crane carrier (lower). Also referred to as swing angle.

## Wireless Slew Sensor design features include:

- Typical resolution: 0.1°
- Typical accuracy: 0.5° over 360°
  - Range: 0° to 360°
- Operating temperature: -40°F to +185°F (-40°C to +85°C)
- Transmission range: 4,300 feet (1,300 meters)
- Rugged waterproof enclosure (IP66), potted electronics for increased waterproof protection



GS031 Wireless  
Slew Sensor

GS820 Wireless  
Multi-Sensor Graphical  
Display with Work Area  
Definition Data



## WORK AREA DEFINITION SOFTWARE

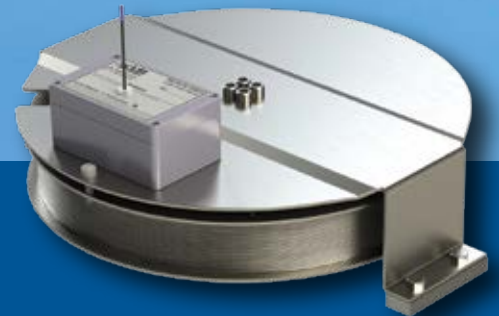
Pairing the GS031 Wireless Slew Sensor with the GS820 Display allows users to define safe work areas, initiating lockout functions when available and preventing the crane from coming into contact with overhead power lines, buildings and equipment on the jobsite.

# WIRELESS CABLE REELS

## ALL Trimble Lifting Solutions Wireless Cable Reel design features include:

- Length is recorded by 2 magnetic switches driven by a series of magnets sealed in the reel drum, this contact-free method helps to avoid the wear and tear that traditional potentiometers face
- Cable end can be terminated at the end of the first telescoping section on proportional booms, eliminating the need to run the cable all the way to the boom tip and reducing cable breakage
- Communication range: 4,300 feet (1,300 meters)
- Operates with 1 D cell lithium battery, 1–2 years battery life under normal operation
- Made from stainless steel with sealed bearings and a stainless steel aircraft cable
- Can be installed on either side of the boom
- Angle sensor range options: -90° to +130° or 0° to 360°
- Boom angle and boom length are measured 4 times per second
- Temperature compensated
- Potted electronics for increased waterproof protection

GS112 Wireless Cable Reel  
140 feet (43 meters)



### Trimble Lifting Solutions Wireless Cable Reels measure both boom ANGLE & LENGTH

Typical Angle Accuracy: 0.2° | Typical Angle Resolution: 0.1°

### GS110 Mini Cable Reel design features include:

- Designed for proportional hydraulic crane booms and non-proportional booms with a maximum boom extension of 32 feet (10 meters)
- Typical length resolution & accuracy: 0.1 feet (30 millimeters)
- Operating temperature: -31°F to +150°F (-35°C to +65°C)



GS110 Wireless Cable Reel  
32 feet (10 meters)

### GS112 Cable Reel design features include:

- Designed for proportional hydraulic crane booms and non-proportional booms with a maximum boom extension of 140 feet (43 meters)
- Typical length resolution & accuracy: 0.07 feet (22 millimeters)
- Operating temperature: -31°F to +150°F (-35°C to +65°C)

Cable-Based Cable Reel

### Cable-Based Cable Reel design features include:

- Zinc plated and powder coated steel housing, 4 core cable
- Typical length measurement accuracy: 0.5% FS
- Typical angle measurement accuracy: 0.6% FS
- Length measurement excitation: +5.00Vdc @ 10mA
- Angle sensor range: -45° to 180°
- Operating temperature: -22°F to +149°F (-30°C to +65°C)
- RoHS and CE compliant



LSI  
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ID: 29734

Model No: G5030  
Steer Sensor Transmitter

**WARNING!**  
This device is intended to be operated only from the 12VDC power source. Do not attempt to use any other power source. Failure to follow these instructions may result in damage to the device and/or injury to the operator.  
FCC ID: 29734-001

**DANGER**  
**PINCH POINT**