

## J1939 BOOM ANGLE SENSOR

### OVERVIEW

The Joral J1939 Boom Angle Sensor package is a rugged-duty electronic sensor designed to measure base and boom angle.

The package is provided as a pre-wired set of two calibrated, fully sealed solid-state sensors. The base sensor mounts to the cab or platform and the boom sensor mounts to the boom.

The device automatically compensates for changes in base angle to output relative boom angle. Additionally, measured angles for the base 'pitch' and 'roll' are provided.

LED indicators on the base sensor display real-time status for power, CAN and sensor angle.

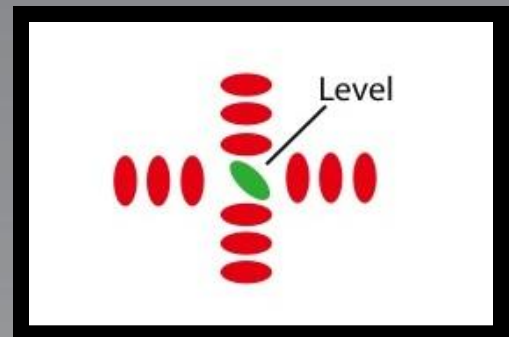
Sensors are packaged in small, lightweight, rugged box with mounting tabs and standard connections.

### FEATURES

- Easy to Install
- Environmentally Sealed Package
- J1939 Standard CAN Bus Interface
- Wide Sensing Angles
- Configuration settings available through J1939
- 'Electronic Bubble' – LEDs display level status
- Sensors are pre-calibrated
- 32" Cable is flexible and protected



**J1939 Boom Angle Sensor**  
**Mfg#-GS10234-502**



### LED INDICATORS

**X and Y Status Indicators:** The green level LED is on if the sensor is level within the LED weight setting.

**Pwr LED:** On solid when voltage is applied to the device.

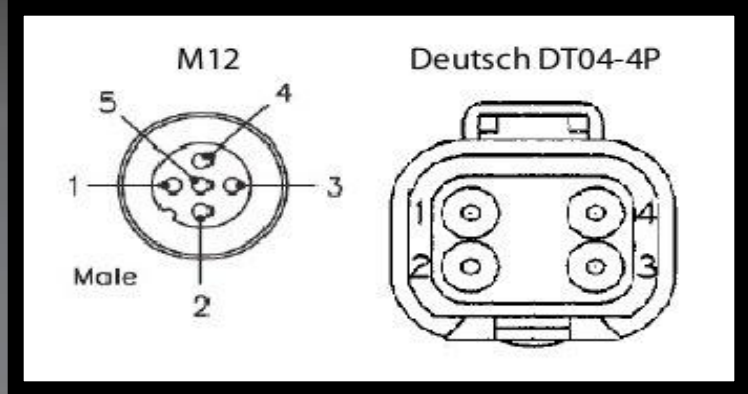
**Run LED:** Blinks to show sensor is operating.

**Tx LED:** On when the sensor is sending J1939 message.

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## CONNECTIONS

Signal	M12 Pin #	Deutsch Pin #
V+	1	3
CANH	2	1
Common	3	4
CANL	4	2
Address Select (optional)	5	-



## SPECIFICATIONS

Model	BA-J1939-5M12	BA-J1939-DT04-4P
Connector	5 pin male M12	4 pin Deutsch
Power	6 to 30 VDC (90 milliamps)	
Interconnection	32" braided multi-conductor cable	
Weight	Base: 3oz; Boom: 2oz	
Mounting	Mounting Tabs (0.187 diameter holes)	
Resolution	0.3°	
Operating Temperature	-40° C to +85° C	
J1939 Source Address	219	
J1939 PGN	65467	
J1939 Data	10 bit angle per axis, 0 to 1023	
J1939 Rate	50msec	
J1939 Priority	4	

### !!!!!!!!!!!!!!WARNING!!!!!!!!!!!!!!

**FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCT AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE**

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