

## **GIG Inclination Sensors**

## Single/Dual Axis General Tilt Sensors (Z/XY)

### **Overview**

High performance, high IP rating, resistance to shock and vibrations, and high electromagnetic compatibility make this sensor suitable for mobile hydraulic applications.

Developed to guarantee a robust, highperformance solution for applications such as agricultural vehicles, earth-moving machines, and hoisting equipment.

The GIG Inclination series offers two independent but redundant sensors and outputs to provide ultimate reliability.

#### **Features**

- Voltage or current analog output
- 8 models available
- M12 quick-disconnect model (purchase cable separately)
- IP67/IP69K rated
- 3-year warranty

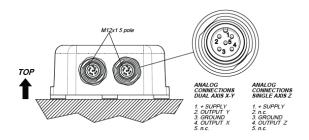


GIG-XY-015-V-M12





GIG Inclination Sensors								
Part Number	Price	Number of Axis	Measuring Range	Accuracy	Output	Connection	Drawing Link	
GIG-Z-360-V-M12	\$319.00	1	+/- 180 degrees	+/-0.5 degrees	redundant 0-10 VDC	(2) 5-pin M12 quick-disconnect	PDF	
GIG-Z-360-A-M12	\$309.00	1	+/- 180 degrees	+/-0.5 degrees	redundant 4-20 mA	(2) 5-pin M12 quick-disconnect	PDF	
GIG-XY-015-V-M12	\$319.00	2	+/- 15 degrees	+/-0.5 degrees	redundant 0-10 VDC	(2) 5-pin M12 quick-disconnect	PDF	
GIG-XY-015-A-M12	\$309.00	2	+/- 15 degrees	+/-0.5 degrees	redundant 4-20 mA	(2) 5-pin M12 quick-disconnect	PDF	
GIG-XY-045-V-M12	\$319.00	2	+/- 45 degrees	+/-0.5 degrees	redundant 0-10 VDC	(2) 5-pin M12 quick-disconnect	PDF	
GIG-XY-045-A-M12	\$309.00	2	+/- 45 degrees	+/-0.5 degrees	redundant 4-20 mA	(2) 5-pin M12 quick-disconnect	PDF	
GIG-XY-085-V-M12	\$319.00	2	+/- 85 degrees	+/-0.5 degrees	redundant 0-10 VDC	(2) 5-pin M12 quick-disconnect	PDF	
GIG-XY-085-A-M12	\$309.00	2	+/- 85 degrees	+/-0.5 degrees	redundant 4-20 mA	(2) 5-pin M12 quick-disconnect	PDF	



ITEMS MARKED "n.c."
MUST NOT BE CONNECTED

DUAL AXIS REDUNDANT CIRCUIT SINGLE AXIS REDUNDANT CIRCUIT



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# GEFRAN GIG Inclination Sensors

## **Specifications**

GIG Inclination Sensor Specifications							
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Measurement Range	±15° ±45° ±85° (single axis Z for analog output-dual axis XY) 360° (±180°) single axis Z only						
Supply Voltage	+10 to +36 VDC						
Output Signal	0-10 VDC; 4-20mA						
Electrical Connections	(2) 5 Pole M12 Connector						
Resolution	12 bit						
Accuracy (Factory Verification @ 25°C)	< ±0.5% FS						
Response Time	~650 ms						
Working Temperature	-40 to +85°C [-40 to 185°F]						
Temperature Coefficient at 0-deg inclination	Typical < ±0.006 deg/°C						
Long Term Repeatability	Single Axis: Typical $<\pm0.5$ deg in the range of $\pm180$ deg Dual Axis: Typical $<\pm0.5$ deg in the range $<\pm60$ deg, $\pm2$ deg otherwise						
Vibrations	20g 10Hz to 2000Hz IEC 60068-2-6						
Shock	Impulsive on 3 axis: 50g 11ms IEC 60068-2-27						
Electromagnetic Compatibility	2014/30/EU Electromagnetic Compatibility (EMC)						
IP Protection Level	IP67-IP69X						
Housing Material	PBT [Polybutylene Terephthalate]						
Agency Approval	CE						

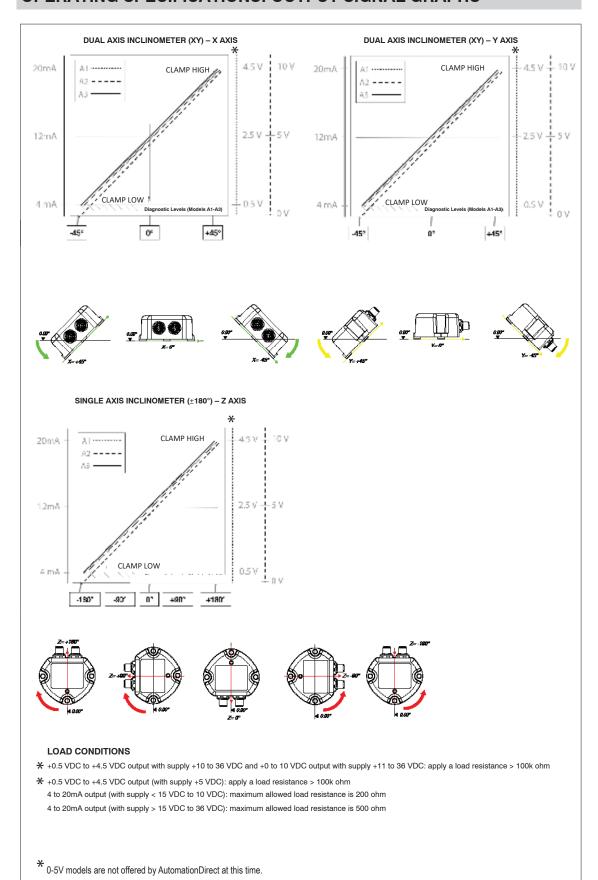
To obtain the latest agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

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# **GIG Inclination Sensors**

### **OPERATING SPECIFICATIONS: OUTPUT SIGNAL GRAPHS**



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