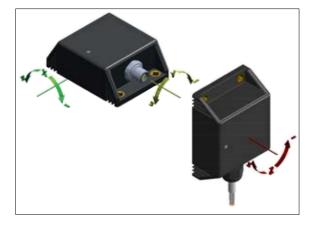
GEFRAN GIT TOP SINGLE/DUAL AXIS INCLINOMETER (XY/360°)





TOP Inclinometer MEMS technology.

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

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

## **TECHNICAL SPECIFICATIONS**

## Measurement Range

 $\pm 10^{\circ} \pm 15^{\circ} \pm 20^{\circ} \pm 30^{\circ} \pm 45^{\circ} \pm 60^{\circ} \pm 85^{\circ}$  (dual XY axis) 360° ( $\pm 180^{\circ}$ ) (single Z axis)

### Supply voltage

+5Vdc (only for 0.5..4.5Vdc output); +10...+36VDC (see output signal for right supply voltage)

#### **Output signal**

0.5...4.5V RATIOMETRIC (supply +5Vdc); 0.5...4.5V; 0...10V; 4...20mA; CANopen

#### Electrical connections

M12 connector output; cable output

#### Resolution

Analog output:  $0.01^{\circ}$  (from ±10° to ±20°);  $0.02^{\circ}$ (±30°);  $0.03^{\circ}$ (±45°);  $0.04^{\circ}$ (±60°);  $0.05^{\circ}$ (±85°);  $0.1^{\circ}$  (±180°). CANopen output:  $0.01^{\circ}$ 

#### Linearity

 $< \pm 0.15\%$  FS (from  $\pm 15^{\circ}$  to  $\pm 60^{\circ}$ ;  $\pm 180^{\circ}$ );  $< \pm 0.3\%$  FS ( $\pm 85^{\circ}$ )

## Working temperature and Coefficient of temperature

-40°C ... +85°C thermal drift < 0.005°/°C in range (T=-10°C..+60°C) otherwise < 0.008°/°C

## Vibrations

20g between 10 Hz ... 2000 Hz IEC 60068-2-6

#### Shock

Pulse on 3 axes; 50g 11 ms IEC 60068-2-27

#### Electromagnetic compatibility

2014/30/EU Electromagnetic Compatibility (EMC)

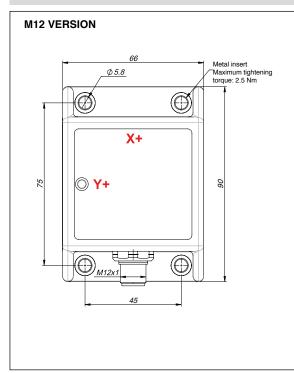
#### **IP Protection Level**

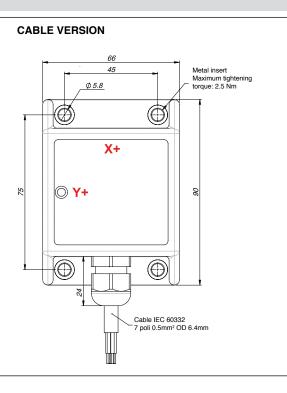
M12 connector output (IP67); cable output (IP X9K)

#### Housing body

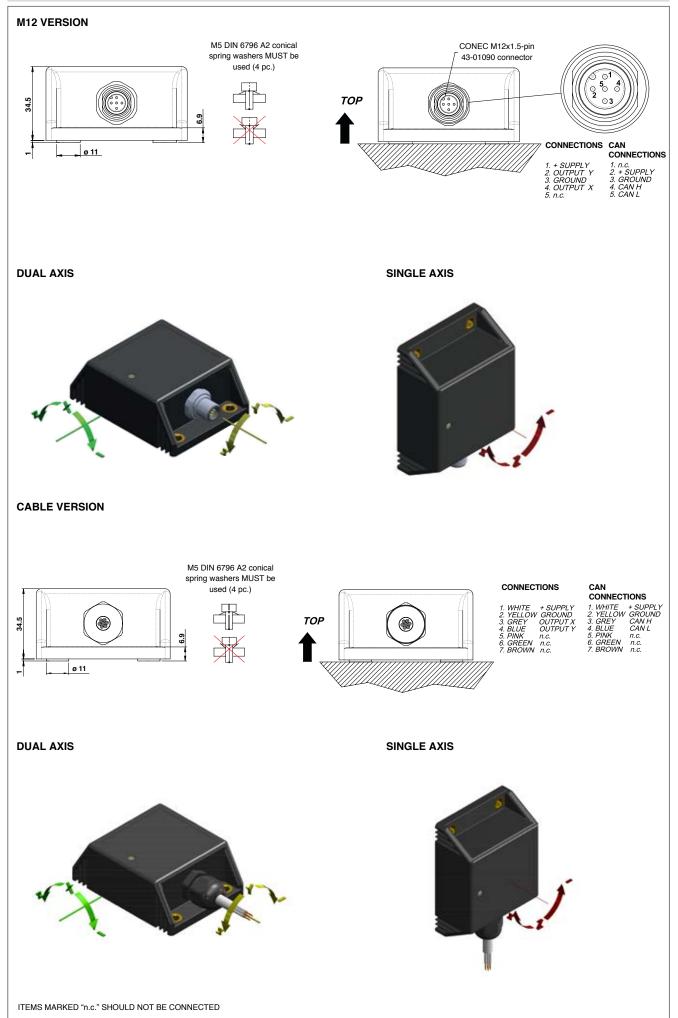
PBT

## **MECHANICAL DIMENSIONS**

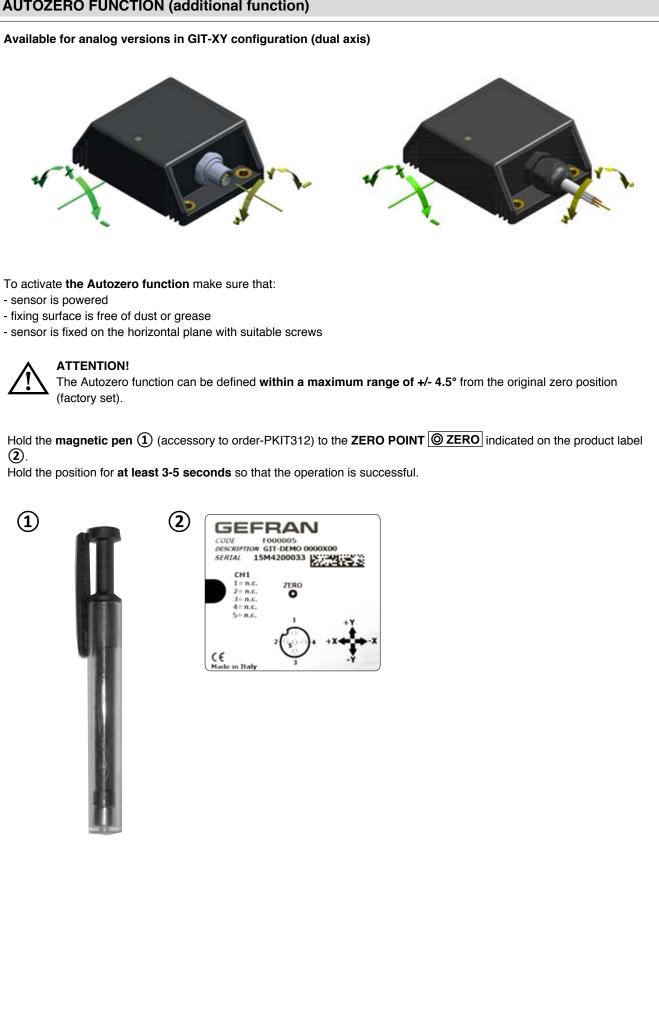




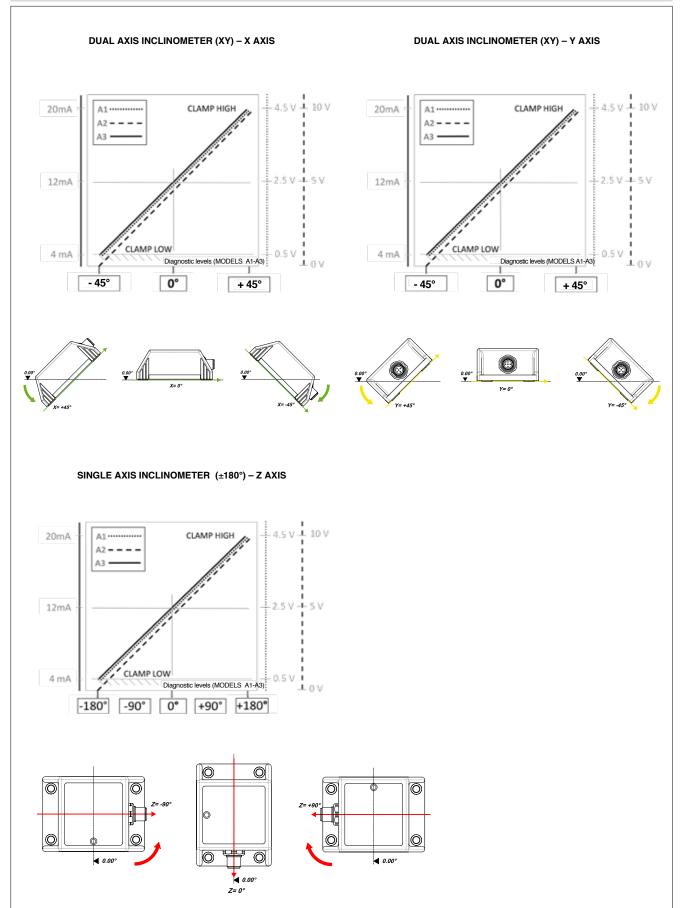
# **ELECTRICAL CONNECTIONS**



# **AUTOZERO FUNCTION (additional function)**



# **OPERATING SPECIFICATIONS: OUTPUT SIGNAL GRAPHS**



### LOAD CONDITIONS

+0.5Vdc...+4.5 Vdc output with power +10...36Vdc and +0..10Vdc output with power +11..36Vdc: apply a load resistance > 100Kohm

+0.5VDC...+4.5VDC output (powered at +5VDC): apply a load resistance > 10Kohm

4..20mA output (powered at < + 15..36Vdc): maximum allowed load resistance is 200 ohm

4..20mA output (powered at >+ 15..36Vdc): maximum allowed load resistance is 500 ohm

## **ORDERING CODE**

M12 connector output     M (able output)     M       Cable output     Cable output)     F       Image: Single axis 300° (Z axis)     O       Single axis 300° (Z axis)     V       Image: Single axis 300° (Z axis) <th>ELECTRICAL CONNECT</th> <th>ONS</th> <th></th> <th>CERT</th> <th>IFICATES</th> <th></th> <th></th> <th></th>	ELECTRICAL CONNECT	ONS		CERT	IFICATES			
(gpecify cable length)       P         AXIS TYPE Dual axis (XY axis)       O         Single axis 300° (Z axis)       V         CIRCUIT TYPE Single axis 300° (Z axis)       V         Single axis 300° (Z axis)       V         OUTPUT TREASURING FANCE (output for single circuit) measuring range (indicate) single axis 304wy 3300° (X xxi dual axis ±10° ±15° ±20° ±30° ±45° ±60° ±85°       CABLE LENGTH         OUTPUT TREASURING FANCE (only for At output (only for At output (noty for At output)       The cable       0         OUTPUT TYPE (available with supply L = rationentic output and with supply L = rationentic output (available without connectionentic) (available without connection (available without connection (available without connection) (available w	M12 connector output	М		0	No certifi	cate enclo	sed	
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AXIS TYPE         Data axis (XY axis)         Single axis 380° (2 axis)         CIRCUIT TYPE         Single axis 380° (2 axis)         OUTPUT TYPE         Redundant R         OUTPUT TYPE         Single axis 380° (3 axis)         Magnetic pen         (output for single circuit)         measuring range (indicate)         single axis always 380°         SUPPLY NOLTAGE         450/CC         (avial axis ±10° ±15° ±20° ±30° ±45° ±60° ±85°         SUPPLY NOLTAGE         450/CC         (avial axis ±10° ±15° ±20° ±30° ±40° ±40° ±40° ±40°         10       10         (avial axis ±10° ±15° ±20° ±30° ±40° ±40° ±40°         10       10         (avial axis ±10° ±15° ±20° ±30° ±40° ±40° ±40° ±40°         (avial axis ±10° ±15° ±20° ±30° ±40° ±40° ±40° ±40° ±40° ±40° ±40° ±4	(specify cable length)							
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Single axis 360° (Z axis)     V       CIRCUIT TYPE       Single     Single       Single     Single       OUTPUT 1 MEASURING RANGE     (autoutror single circuit)       measuring range (indicate)     20 20 mm cable       0     10 1m cable       0     OUTPUT 1 MEASURING RANGE       (autout axis ±10° ±15° ±20° ±30° ±45° ±60° ±85°       OUTPUT 2 MEASURING RANGE       (autous ±10° ±15° ±20° ±30° ±45° ±60° ±85°       OUTPUT 7 MEASURING RANGE       (autous ±10° ±15° ±20° ±30° ±45° ±60° ±85°       SUPPLY VOLTAGE       +0+50° (c)       (autous ±10° ±15° ±20° ±30° ±45° ±80° ±85°       SUPPLY VOLTAGE       +0+50° (c)       +10+56° (c)       (available with supply 1 – catometric output       (available with supply 1 – catometric output       010°/VCC (powered at +10.36°/VCC)       CABLE       (always °0° in case of GIT-M version)       0       CABLE       (always °0° in case of GIT-M version)       0       MDLE OF DESCRIPTION: GITFOS030000HA30 0000X01       Image: Single       Model asis XY				X		,		
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cable output								



## GEFRAN spa via Sebina, 74 25050 PROVAGLIO D'ISEO (BS) - ITALIA tel. 0309888.1 - fax. 0309839063 Internet: http://www.gefran.com