



## 0729-1760-99

### Dual Axis Inclinometer RS485



#### Description

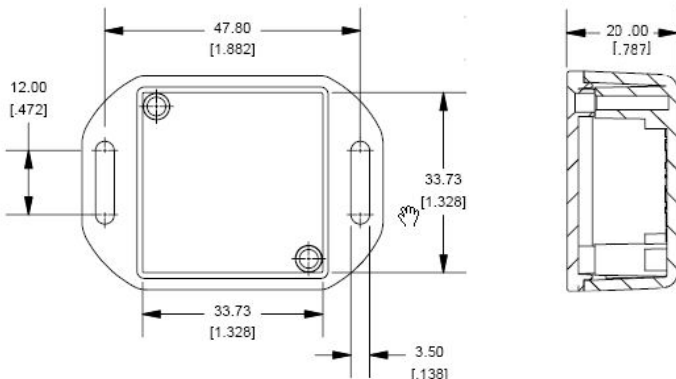
The dual axis inclinometer in a compact, high-impact plastic housing offers microprocessor based electronics with RS485 output for easy use and interface with instrumentation and equipment. Assembly includes the Fredericks dual axis *TrueTilt* 0717-4318-99 sensor which provides long term repeatability and environmental durability in the most demanding applications.

- Angle range +/-60° (X & Y axis)
- Resolution .003 degrees
- Repeatability +/-0.1 Degrees
- Outputs (X& Y Axis) RS485
- Power Supply Voltage 7 to 16 VDC

#### Operating Specifications

|                                       |                         |
|---------------------------------------|-------------------------|
| Output                                | RS485                   |
| Angle Range                           | * +/-60° (X&Y axis)     |
| Resolution (.003 degrees)             | 0.2 Arc Minutes         |
| Repeatability                         | +/- 0.1 degrees         |
| Power supply voltage                  | 7 to 16 VDC (regulated) |
| Power supply current                  | 20mA @ 7VDC             |
| Operating & storage temperature range | -40°C to + 70°C*        |
| Symmetry (typ.)                       | 5%                      |
| Null Offset                           | 5.0°                    |
| Mech. Crosstalk / Deg. (to 20°)       | 0.025°                  |
| Temperature Coefficient               |                         |
| Null                                  | 20 arc sec / °C         |
| Scale                                 | 0.1% / °C               |
| Stability @ 24 hrs                    | 0.1°                    |
| * Limited by housing                  |                         |

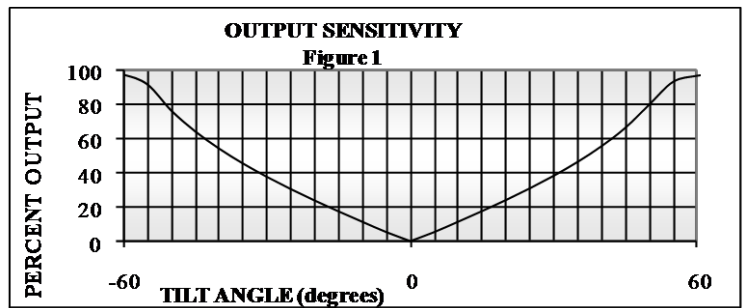
#### Physical Dimensions



#### Applications Include

- Solar Tracking
- Aerial Lift Platforms
- Construction machines
- Alarm System Activation
- Medical positioning and monitoring
- Machine tool leveling

#### Sensor Output Sensitivity Chart



#### Circuit Board Specifications

| Wire color | Signal name | Direction    | Description   |
|------------|-------------|--------------|---|
| RED        | Vcc         | Input        | Supply voltage input: +7 to + 16 vdc                                  |
| BLK        | GND         | -            | Ground – The reference for the digital signals and the supply voltage |
| YEL        | Gnd         |              |   |
| GRN        | B           | Input/Output | RS485 -B  |
| BLU        | A           | Input/Output | RS485 -A  |
|            |             |              |   |

Note: refer to 1-6200-008 spec sheet & manual for more information

Note: Installed sensor is 0717-4318-99, other sensor can be utilized per customer request.



## Distribuidor

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