

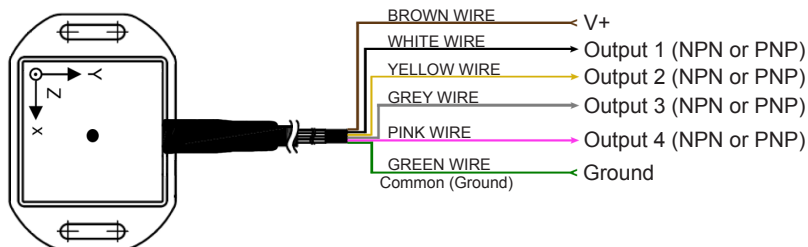
Part Number: PDT1001 Series
Programmable Tilt Module
Product Data Sheet

PICTURE



✓ **RoHS Compliant**

WIRING DIAGRAM



LED STATUS

ON - Supply voltage is normal.
 Output value is correct.
 OFF - Insufficient supply voltage.
 Flicker - Vibration too high or too much motion

ORDERING INFORMATION

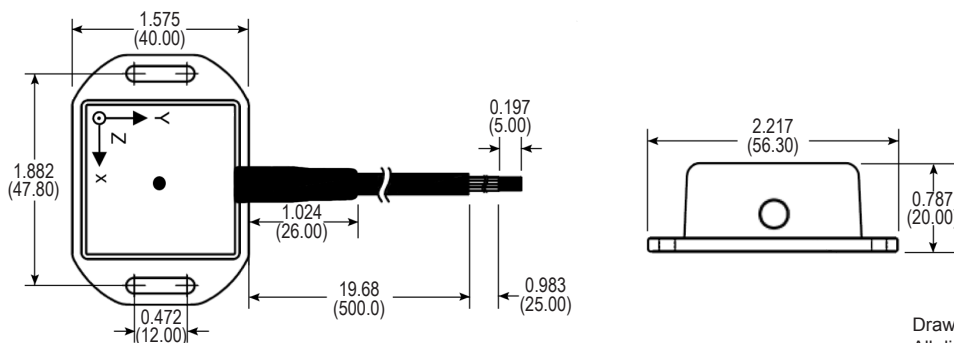
PDT1001 - 1
 Base Part 1 = NPN Version
 2 = PNP Version

*Custom ranges available, please contact factory.

FEATURES

- Resistant to Ambient Environmental Conditions
- Construction : ABS Housing
- Mechanical Stress Resistant
- Multi Axis Tilt Sensor
- Antivibration Feature
- Four Programmable Outputs

DIMENSIONS



Drawings not to scale.
 All dimensions in inches (mm) nominal.

SPECIFICATION

INPUT	
Supply Voltage	6 - 30 VDC
Supply Current	10 mA
OUTPUT	
Type	NPN or PNP Digital Output
Tilt Angle X and Y Planes	-180° +180° (can be preset for any angle within specification range)
Tilt Angle Z Plane	0° +180° (can be preset for any angle within specification range)
Zero level change vs Temperature	Delta from 25°C ±0.4° /°C
Tilt Resolution	< 0.6°
Shock Survivability	10000 g for 0.1 ms
Switching Current (max)	100 mA
OTHER SPECIFICATIONS	
Communication Interface	Serial 3V3 TTL (compatible with a USB to serial converter TTL-232R-3V3-AJ from FTDI CHIP)
Operation Temperature	-20° +70°C
Case Material	ABS

As part of the company policy of continued product improvement, specifications may change without notice. Our sales office will be pleased to help you with the latest information on this product range and the details of our full design and manufacturing service. All products are supplied to our standard conditions of sale unless otherwise agreed in writing.

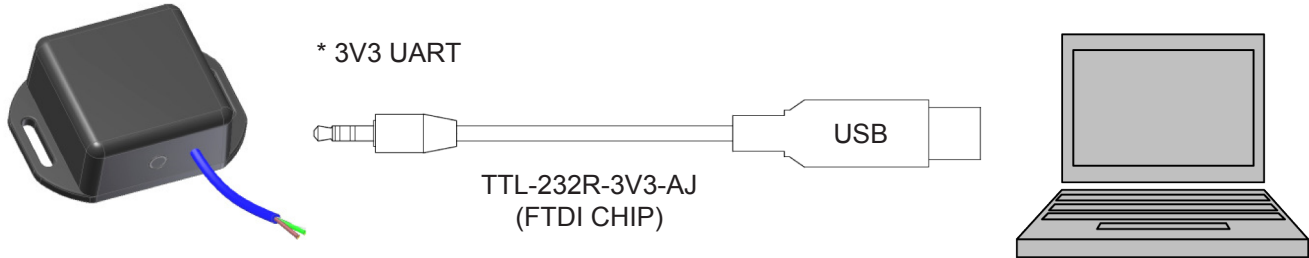
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PC CONNECTION



The sensors can be adjusted by connection to a PC via a USB port. The connection is made through a USB to serial converter cable with 3mm audio jack connector.

By the use of a terminal program, commands/responses can be send/received in readable ASCII characters to/from the sensor.

For each type of sensor, there's a reference which describes the commands/responses for that type.

The references can be downloaded from the following link : [Smart Sensor Instruction Set](#)

*Cable sold separately, please contact factory.

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