



INK089

Multi-function tilt switch

VOLBUFF

SENSORS

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1 Product Description:

Excellent repeatability, high degree of protection, resistance to shock and vibration, high electromagnetic compatibility, the use of this sensor is suitable for a variety of aerial work platforms, measuring the biaxial (X, Y) tilt angle, and detecting the angle tilt of the object under test beyond the preset value, and sending an alarm switch signal.

Advantages: It is suitable for measuring inclination positions in harsh environmental conditions and outdoor environments, and adapts to high reliability and long service life.

Its main features are as follows:

- Wide voltage input: 9-35VDC
- Low power consumption
- Dual-axis measurement, switch-level output
- The alarm and alarm withdrawal delay time can be set with two-color indicator
- Zero key function
- High degree of protection: IP67
- Wide temperature range: -40°C... +85°
- Resistant to vibration and shock
- Compact size design
- High reliability and long service life for outdoor applications
- A variety of function options

2 Technical Specifications

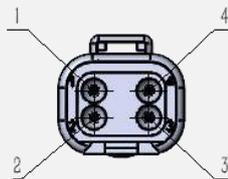
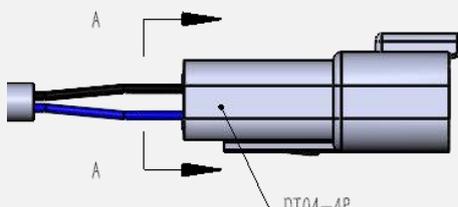
Electrical parameters

Operating voltage	8-35VDC
Operating current	30mA Max@24VDC
Measure the direction	X-Y
Measuring range	±30° (angle can be customized)
Output resolution	0.01°
Repeatability	0.1°
Frequency of response	10Hz
Relative accuracy	0.2°(±30° range)

Environmental parameters

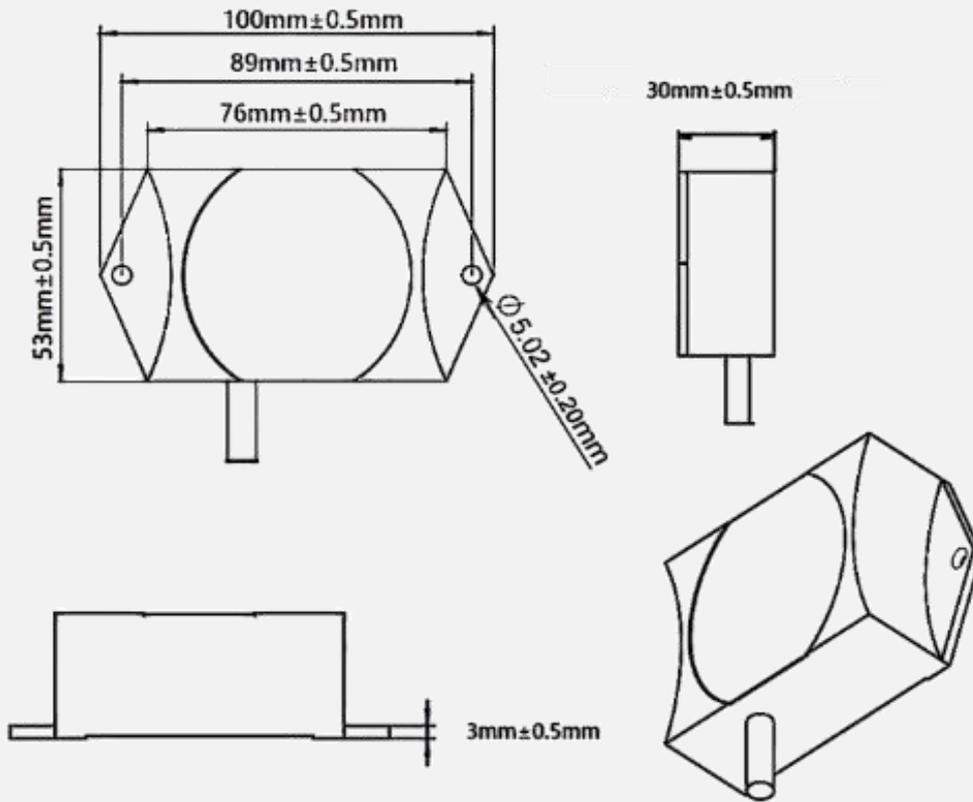
Operating temperature	-40℃ ~ +85℃
Storage temperature	-40℃ ~ +85℃
Ingress protection	IP67

3 Interface definition



Pin	Definition
1	VCC
2	OUT
3	GND
4	N.C.

4 Outline installation drawing (unit: mm)



6 Precautions for use

(1) The power supply of this product uses an independent power supply, and it is recommended not to be connected in parallel with other loads. During use, the power supply is not allowed to have serious safety hazards or instability, otherwise it will cause the product to fail!



(2) When using this product, please operate in strict accordance with the specified wiring method under the specified power supply voltage to prevent short circuit and damage to the power supply and sensor caused by misoperation.

(3) Do not disassemble the sensor without permission, so as not to cause the sensor to not work normally.

(4) This sensor is a precision device, please handle it with care during use.

(5) Do not use in a strong magnetic field environment.

