

Bi-axial Inclinometer



Features

- High Resolution
- Wide measuring range
- Wide supply voltage range
- Single or Dual axial
- Low supply current
- Harsh environment

Measuring range $\pm 5^\circ$ 、 $\pm 10^\circ$ 、
 $\pm 15^\circ$ 、 $\pm 30^\circ$ 、 $\pm 45^\circ$ 、 $\pm 60^\circ$ 、 $\pm 90^\circ$
 Measurement accuracy(-20~60 °C):..... $\pm 0.05^\circ$
 Refresh rate(Max.)..... 50Hz
 Non-linearity..... $\pm 0.03^\circ$
 Resolution..... 0.01°
 Repeatability..... $\pm 0.02^\circ$
 Bandwidth(2/5/10/20/50Hz available)..... Default 20Hz
 MTBF..... 10 years

Electrical

Power requirement..... 9 - 36 VDC
 Voltage SFO..... 0.5 – 4.5 V
 Current SFO..... 4 - 20 mA
 Warmup time < 0.1s

Environmental

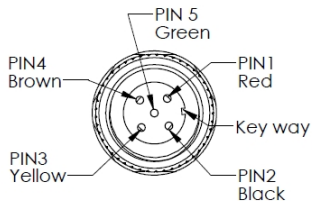
Temperature range..... -40 to 85°C
 Thermal zero shift..... $0.0011^\circ/\text{C}$
 EMC..... EN61000/GBT17626
 Shock limit..... Up to 1000g
 Insolation..... $\geq 100\text{M ohms}$

Physical

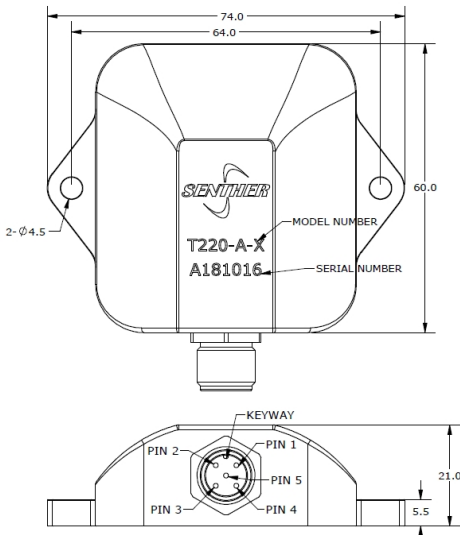
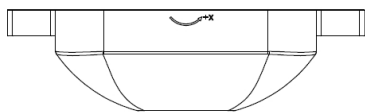
Protection..... IP67
 Weight(W/O cable)..... $\leq 200\text{grams}$
 Case material..... Anodized aluminum
 Mounting..... M4 Screws
 Output Connector..... M12_5-Pins socket

Accessories

Calibration certificate
 M4x12mm hex head screw(2pcs)
 Mating cable: 18A-L(option), -L for cable length in meter



18A-L Mating Cable



ITEM	OUTPUT INTERFACE CODE X							
	A	B	B1	C	C1	D	E	F
CONNECTOR PIN 1	POWER+	POWER+	POWER+	POWER+	POWER+	POWER+	POWER+	POWER+
CONNECTOR PIN 2	POWER GND	POWER GND	POWER GND	POWER GND	POWER GND	POWER/SIGNAL GND	POWER GND	POWER GND
CONNECTOR PIN 3	TXD	RS485-A	RS485-A	CAN-H	CAN-H	CONTROL POWER +	Vx	Ix
CONNECTOR PIN 4	RXD	RS485-B	RS485-B	CAN-L	CAN-L	X AXIS ALARM	Vy	Iy
CONNECTOR PIN 5	SIGNAL GND	SIGNAL GND	SIGNAL GND	SIGNAL GND	SIGNAL GND	Y AXIS ALARM	SIGNAL GND	SIGNAL GND
COMMUNICATION PROTOCOL	MODBUS	MODBUS	CUSTOM	CUSTOM	CAN OPEN	/	/	/

Ordering Information

T220-5-E
 └── Output interface
 └── Range in °
 └── Model

