

## High accuracy inclinometer



### Features

- High Resolution
- Wide measuring range
- Wide supply voltage range
- Low supply current
- Harsh environment
- Motion vertical to cable

Measuring range .....  $\pm 5^\circ$  、  $\pm 10^\circ$  、  
 $\pm 15^\circ$  、  $\pm 30^\circ$  、  $\pm 45^\circ$  、  $\pm 60^\circ$  、  $\pm 90^\circ$  、  $\pm 180^\circ$  、  $0\sim 360^\circ$   
 Measurement accuracy(-15~50 °C):  
 $\pm 5^\circ$  、  $\pm 10^\circ$  、  $\pm 15^\circ$  、  $\pm 30^\circ$  、  $\pm 45^\circ$  、  $\pm 60^\circ$  ....  $\pm 0.05^\circ$   
 $\pm 90^\circ$  、  $\pm 180^\circ$  、  $0\sim 360^\circ$  .....  $\pm 0.1^\circ$   
 Cross axial error.....  $\pm 0.2\%$   
 Refresh rate(MAX.)..... 50Hz  
 Non-linearity.....  $\pm 0.03^\circ$   
 Resolution.....  $0.01^\circ$   
 Repeatability.....  $\pm 0.02^\circ$   
 Bandwidth(5Hz、 10Hz available)..... Default 3Hz  
 Response time (no filtering) ..... 5ms

### Electrical

Power requirement..... 5 - 36 VDC  
 Voltage SFO..... 0.5 – 4.5 V  
 Current SFO..... 4 - 20 mA  
 Startup time ..... < 1s

### Environmental

Temperature range..... -40 to 85°C  
 EMC..... EN61000/GBT17626  
 Shock limit..... Up to 1500g  
 Insolation.....  $\geq 100M$  ohms

### Physical

Protection..... IP67  
 Weight(W/O cable).....  $\leq 200$ grams  
 Case material..... Anodized aluminum  
 Mounting..... M4 Screws  
 Output Connector..... M12\_5-Pin socket  
 Mating cable..... 18A-L

### Accessories

Calibration certificate  
 M4X10mm screw

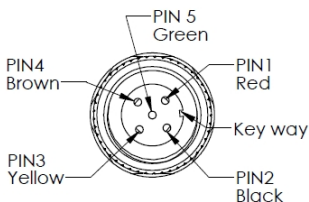
### Output type(Refer below table, X axial only)

| ITEM                   | OUTPUT INTERFACE CODE X |            |            |            |            |                  |            |            |
|------------------------|-------------------------|------------|------------|------------|------------|------------------|------------|------------|
|                        | A                       | B          | B1         | C          | C1         | D                | E          | F          |
|                        | RS232                   | RS485      | RS485      | CAN        | CAN OPEN   | SWITCH ALARM     | VOLTAGE    | CURRENT    |
| 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

T210-5-E

Output interface  
 Range in °  
 Model



18A-L Mating Cable

