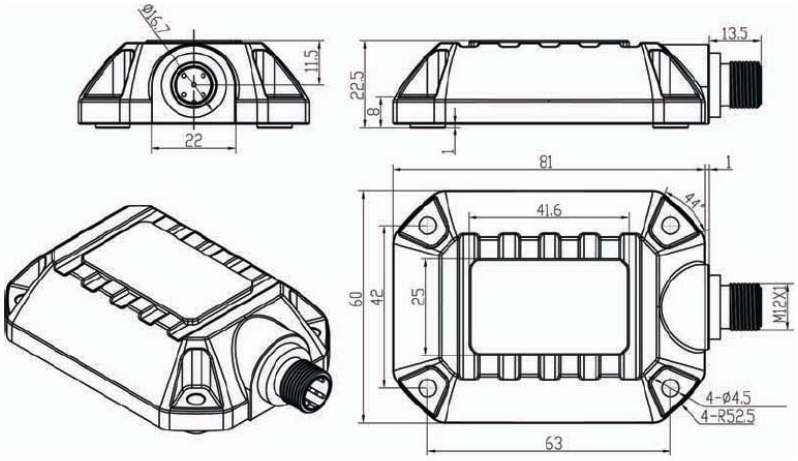
TST20, el inclinómetro

Sensor con nanotecnología Mems.
Caja de aluminio, protección IP69K
Conector industrial M12
Frecuencia de respuesta 10Hz
Precisión 0.07º, influencia eje < 0,5%
Tensión de alimentación 7 a 42 Vcc
Rango desde ±5º a 90º (360º)
Salida: 4...20 mA/Canbus/RS485

Rangos	±5° , ±10° , ±15° , ±30° , ±45° , ±60° , ±90° , 0~360°
Precisión	±0.07°@-15~50?
Repetitividad	±0.02°
Resolución	0.002°
Sensibilidad otro eje	±0.5%FS
Ejes	1 o 2
Max. frecuencia	10Hz(max) Resp. 1 mseg.(sin filtrar)
Señal de salida	CAN2.0B - CANOpen- 0,5...4,5 Vcc - 4...20 mA - RS485
Alimentación	7 a 42 Vcc
Temp. de trabajo	-40～85ºC
Protección ambiental	IP69K
MTBF	10 years
Conexión	M12 5-Pin socket
Peso	=200g



Ordering

TST20 — Axis — Range — Output

Axis	Range	Output
Single axis — 01 Dual axis — 02	±5° —05 ±10°—10 ±15°—15 ±30°—30 ±45°—45 ±60°—60 ±90°—90 0~360°—360	RS485—G1 CAN2.0B—G3 CANOpen—G4 0.5~4.5V—G20 4~20mA—G19 Switch alarm—G25

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TST20 User Manual

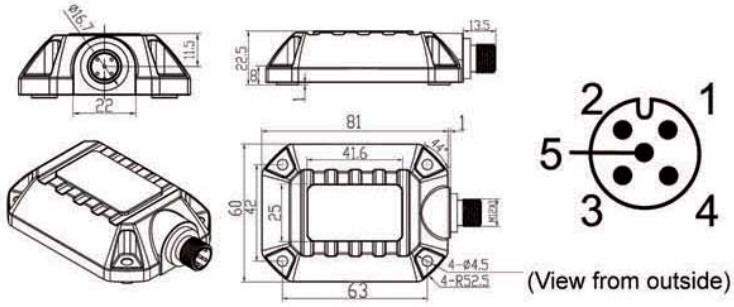
Features

- ±1% Cross-axis error, ±0.07°accuracy
- Horizontal mounting, auto-correct installtion error
- IP69K Protection
- 16~36VDC Power supply
- Shock survival 1500g

Electrical connection and pin definition(mm)

PIN	Current(16~36VDC)
1	Power +
2	Power GND
3	Ix
4	Iy
5	Signal GND

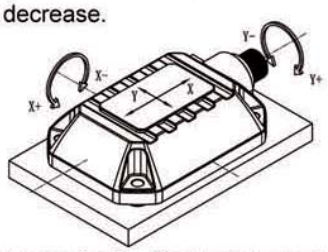
Table 1 Pin definition



Picture 1 Product dimension and connector socket

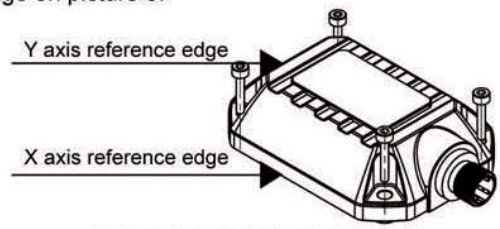
SST20 axial, angular direction judgment and installation

Picture 2: TST20 inclinometer X, Y axial direction,along the shown X,Y direction,the angular output is increasing, otherwise for decrease.



Picture 2 Inclinometer X , Y axis and angular direction

TST20 inclinometer use M4 X 25 screw and it can meet IP69 seal requirement.When installation,please reference the edge on picture 3.



Picture 3 Installation instruction

Troubles and Troubleshooting

Trouble phenomena	Troubleshooting	Testing tools
No output	1.Check whether the power supply is normal 2.Check whether the power wire is right 3.Check whether the signal wire is right 4.Check whether the cable joint is tight	1. Multimeter 2.Visual check 3.Manual
Output is unstable	1. Check whether the cable joint is tight 2.Check whether the base fixed tightly 3.Check whether the power supply output is stable	1. Visual check 2. Multimeter
X Y output is not accurate	1. Check whether the base mounting surface is align with mark lines of base 2.Check whether the signal wire is correct	1. Visual check 2. Manual
Power consumption abnormal	Make the ammeter series with power supply circuit 1.If the power consumption is greater, there is short circuit, please contact with Vigor. 2.If the power consumption is smaller, there is open circuit, please contact with Vigor. 3.If the power consumption is normal, please check the circuit failure of output and ruled out.	1. Amperemeter 2. Manual