

PST151 Inclinometer

Feature

4~20mA output	Anti-electromagnetic interference
Fully sealed	Anti-power interference
IP67 protection	Single axis
-40~85°C operating temperature	

PST151 series inclinometer is a high performance and hard angle measure device, mainly designed for engineering plant. Except satisfy the common application requirement, this type inclinometer adopt kinds of procedure to ensure the reliability and stability, as automotive level MCU, PCB with special protective treatment, tensile cables, automated testing before leave factory, high precision aluminium alloy housing and so on.

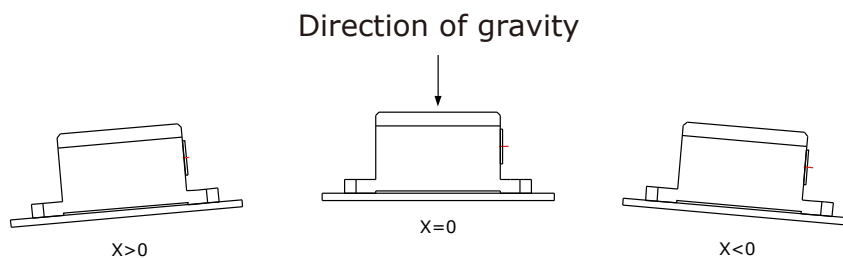


PST151 series inclinometer with 4~20mA output, can choose connector and pigtail.

PST151 series inclinometer can directly connect with vehicle battery or other no-regulated supply, because of its widen load impedance may be present in any PLC or data acquisition device.

Application field

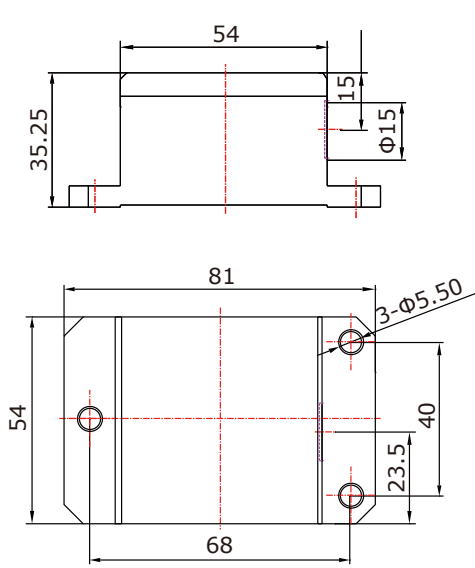
Mine Machine、 Food machine、 Construction machinery、 Farm machine、 Factory automation、 Transport machinery、 Medical facilities



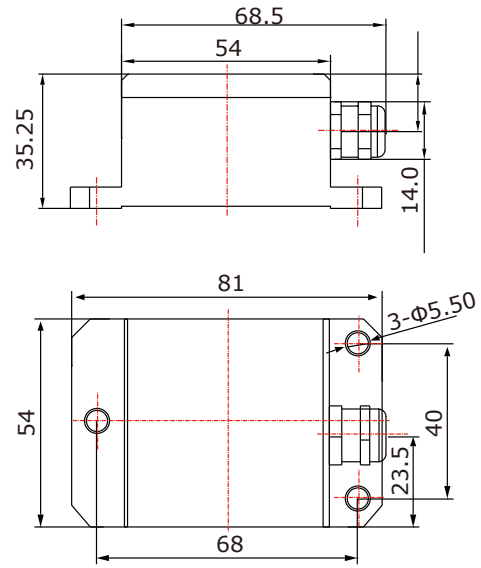
Specifications (Ambient 25 °C, unless specified)

Product Type	PST151-5	PST151-10	PST151-15	PST151-30	PST151-45	PST151-60	PST151-90
Range	±5°	±10°	±15°	±30°	±45°	±60°	±90°
Accuracy (max)	±0.1°	±0.1°	±0.1°	±0.1°	±0.15°	±0.15°	±0.15°
Resolution	0.01°	0.01°	0.01°	0.01°	0.02°	0.02°	0.02°
Temp. Drift Coefficient	≤100 ppm/ °C	≤100 ppm/ °C	≤100 ppm/ °C	≤85 ppm/ °C	≤85 ppm/ °C	≤100 ppm/ °C	≤50 ppm/ °C
Axis	Single-axis						
Response Time	0.3s						
Cross-Axis Error	±0.3%FS						
Output Signal	4~20mA						
Output Impedance	150~250Ω						
Insulation Resistance	100M Ω						
EMC	CE Standard						
Power Supply	16~36VDC (no-regulated)						
Consumption Current	≤100mA						
Power Rejection ratio	>85dB						
Operating Temp.	-40~85 °C						
Refresh Rate	5Hz(optional 10Hz, 20Hz)						
Protection Class	IP65/IP67						
Connection	Pigtail (optional Binder 712 connector) 2meters cable						
Housing Material	Hard anodized aluminium alloy						
Cable	7 pins PVVC shielded cable						
Dimensions	81x54x35.25mm						
Shock	100g, 11ms, 3-axis (Standard: GB6587.4-86)						
Vibration	8g rms, 20~2000Hz (Standard: GB6587.5-86)						
Weight	240g(Except cable and connector)						
Optional: Temperature Compensation Accu. @-10~65 °C @-40~85 °C	±0.2°				±0.3°		

Dimensions (mm)



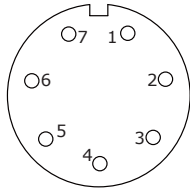
Binder 712 connector



Pigtail connector

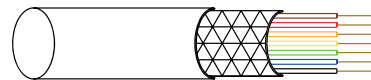
Wirings

Binder 712 connector



Pinning	
Pin	Function
1	Power+
2	Power/Siignal GND
3	NC
4	Iout
5	NC
6	NC
7	NC

Pigtail connector



Pinning	
Color	Function
Red	Power+
Black	Power/Siignal GND
Green	NC
Yellow	Iout
White	NC
Blue	NC
Brown	NC

Order

Model	Range	Accuracy@ 25 °C	Lead wire	Axis
PST151-5	±5°	±0.1°	Metal pigtail connector	1
			Binder™ 712 connector	
PST151-10	±10°	±0.1°	Metal pigtail connector	1
			Binder™ 712 connector	
PST151-15	±15°	±0.1°	Metal pigtail connector	1
			Binder™ 712 connector	
PST151-30	±30°	±0.1°	Metal pigtail connector	1
			Binder™ 712 connector	
PST151-45	±45°	±0.15°	Metal pigtail connector	1
			Binder™ 712 connector	
PST151-60	±60°	±0.15°	Metal pigtail connector	1
			Binder™ 712 connector	
PST151-90	±90°	±0.15°	Metal pigtail connector	1
			Binder™ 712 connector	

Ordering code

PST151-xx-P Pigtail cable 2m

PST151-xx-BC Binder Connector

Option-LB: Plate with same footprint as PMP-xx-LB

