

SST200 Inclinometer



辉格科技
Vigor Technology

SST200 Inclinometer

Features

- High reliability & performance-cost ratio
- Repeatability & Offset $\pm 0.02^\circ$
- Response time $0.3s@t_{90}$
- Cross axis sensitivity less than $\pm 0.3\%FS$
- Temperature drift reach $\pm 0.1^\circ @ -40 \sim 85^\circ C$ (Option)
- Full seal & anti-shock, IP67 protection
- Carried 50 industry & military standards



Description

SST200 inclinometer based on MEMS technology, integrated with cross-axis sensitivity compensation, filtering, nonlinearity correction, CAE&EDA simulation and patented automatic testing technology, to meet various industrial measurement & control in most harsh environment.

SST200 inclinometer performs high reliability & stability. Thanks full-sealed technology, enhanced PCBA, intelligent power management, enhanced anti-shock & anti-vibration, enforced cable (heavy duty up to 30kg) assembly and robust aluminium alloy housing (with heat treatment and anti-torsion finishing). As well as the long-term dynamic simulation and patented auto-test technology.

SST200 meets various strict or special military applications. As request, make fixed test programs according to MIL/EN/IEC/GJB etc. standards. As general option, the total temperature drift can reach $\pm 0.1^\circ$ within $-40 \sim +85^\circ C$.

Applications

Factory automation, Precision instruments, Vessel, Engineering machinery, Aerospace, Civil engineering, Military project.

Carried Standards

- GB/T 191 SJ 20873 General requirements for Inclinometer & levelmeter (China)
- GBT 18459 Methods for Calculating the Main static performance specifications for transducers (China)
- JJF 1059 Evaluation and Express of Uncertainty in Measurement (China)
- JJF 1094 Evaluation of the Characteristics of Measuring Instruments (China)
- JJF 1116 Calibration Specification for Linear Accelerometer used precision Centrifuger (China)
- QJ 2318 The test method of gyro & accelerometer (China)
- GJB 2786A General Requirements for Military Software Development (China)
- GJB 2884 General Specification for Three-Axis angular motion simulator (China)
- EN61000-4-11 Voltage dips & Voltage variations
- MIL-HDBD-338B
- ISO 5348 IDT
- MIL-STD-810F-501.4
- MIL-STD-810F-502.4
- MIL-STD-810F-503.4
- MIL-STD-810F-506.4
- MIL-STD-810F-510.4
- MIL-STD-810F-514.5
- MIL-STD-810F-516.5
- IEC60529 IP
- EN61000 -4-2 ESD
- EN61000-4-3 RS
- MIL-STD-810F-507.4
- EN61000-4-4 EFT
- EN61000-4-5 SURGE
- EN61000-4-6 CS
- EN61000-4-8 PFMF
- ISTA-2A

SST100

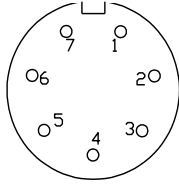
SST200

SST300

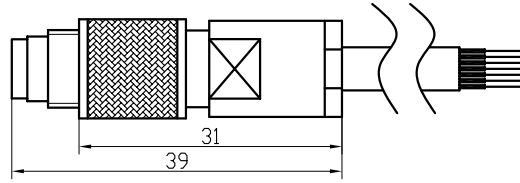
SST400

SST500

Wiring



Picture 1 Binder712 socket
(View from outside)

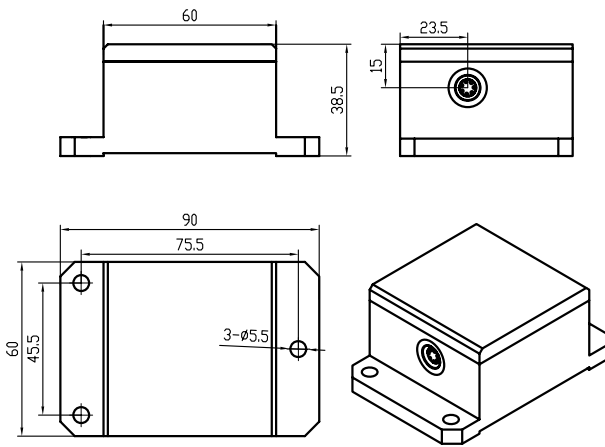


Picture 2 Binder712 plug and cable

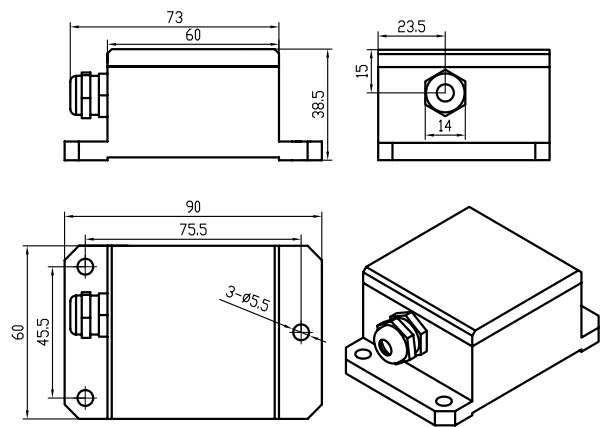
Table2 Binder712/ Pigtail definition

Binder712 Socket Pin	Pigtail Cable color	SST250,SST260			SST220	SST210	SST240	SST230
		RS232	RS485	RS422	4~20mA		0.5~4.5VDC	
1	Red	Power +	Power +	Power +	Power +	Power +	Power +	Power +
2	Black	Power -	Power -	Power -	Power -	Power -	Power -	Power -
3	Green	Signal GND	Signal GND	Signal GND	Signal GND	Signal GND	Signal GND	Signal GND
4	Yellow	NC	NC	RS422-RXD+	Ioutx	Iout	Voutx	Vout
5	White	NC	NC	RS422-RXD-	Iouty	NC	Vouty	NC
6	Blue	RS232-TXD	RS485-A	RS422-TXD+	NC	NC	NC	NC
7	Brown	RS232-RXD	RS485-B	RS422-TXD-	NC	NC	NC	NC

Dimensions (mm)



Picture 3 Housing with Binder712 socket



Picture 4 Housing with metal pigtail wiring

Ordering information

Model	Axis	Connection	Output type	Range
SST210	1	Binder712(-C) ,optional Pigtail (-P)	4~20mA	$\pm 5^\circ, \pm 10^\circ,$ $\pm 15^\circ, \pm 30^\circ,$ $\pm 45^\circ, \pm 60^\circ, \pm 90^\circ$
SST220	2	Binder712(-C) ,optional Pigtail (-P)	4~20mA	
SST230	1	Binder712(-C) ,optional Pigtail (-P)	0.5~4.5VDC	
SST240	2	Binder712(-C) ,optional Pigtail (-P)	0.5~4.5VDC	
SST250	1	Binder712(-C) ,optional Pigtail (-P)	RS232(Option RS485, RS422)	
SST260	2	Binder712(-C) ,optional Pigtail (-P)	RS232(Option RS485, RS422)	



Shanghai Vigor Technology Development Co., Ltd.

No.289-4, Bisheng Road, Pudong New District Shanghai China 201204

Hotline. +86-400-0505-021

Tel. +86-21-5840-4921

Fax. +86-21-5835-4552

Email: sales@vigordigital.com

Web: www.vigordigital.com