

Ultra-high precision dual-axis tilt sensor - technical indicators

Mechanical properties :

Connector	Metal connector (standard cable is 1.5m)
Protection level	IP67
Shell material	Magnesium alloy oxidation
Installation	Three M4 screws

Electrical index :

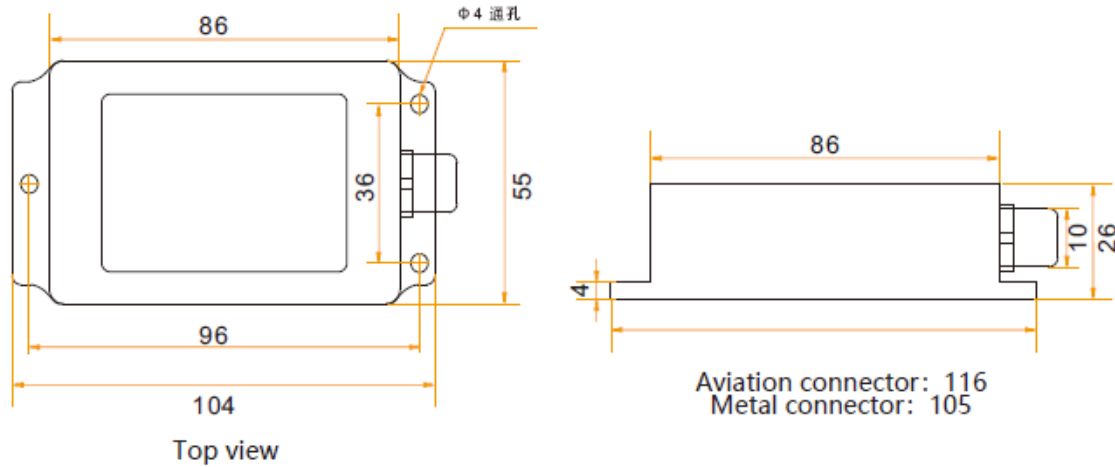
Parameters	Conditions	Min	Typical	Max	Units
Power supply(DC)		9	12	35	V
Operating current	Non-loaded	20	30	40	mA
Operating temperature		-40		+85	°C
Store temperature		-55		+100	°C

Performance :

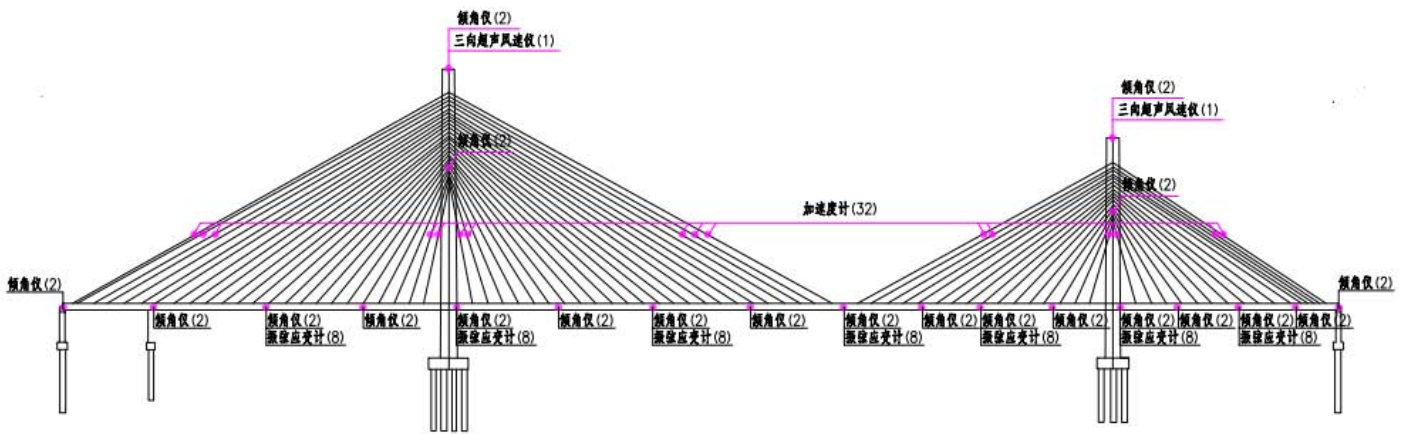
Measuring range(°)	Conditions	±5	±15	±30
Measuring axis	Vertically	X-Y	X-Y	X-Y
Accuracy(°)	Indoor	0.001	0.003	0.005
Resolution(°)	Completely static	0.0005	0.0005	0.0005
Zero temperature drift(°/°C)	-40 ~ 85°C	±0.0007	±0.0007	±0.0007
Cross axis error(°)	Max	0.001	0.001	0.001
Power-on time		<3s	<3s	<3s
Frequency response (Hz)	5 ~ 100Hz (Adjustable)	100	100	100
Baud rate	Adjustable	2400~115200	2400~115200	2400~115200
MTBF	≥90000 hours/time			
Electromagnetic compatibility	according to GBT17626			
Insulation resistance	≥100 MΩ			
Shock resistance	2000g,0.5ms,3times/axis			
Weight (g)	320 (Metal connector) /350 (Aviation connector)			

Ultra-high precision dual-axis tilt sensor - mounting size

Product plan :



Monitoring points :



Ultra-precision dual-axis tilt sensor - success story

- Guizhou Beipanjiang Bridge
(the tallest bridge in the world)



- Wuhai Lake Bridge



- Yangzhou Beichengzi River



- Da Chong Ganjiangte Bridge



- Tianjin Binhai Bridge



- Guizhou Yachi River Bridge



- Guizhou Azhihe Bridge



- Nanjing Weihe Bridge

