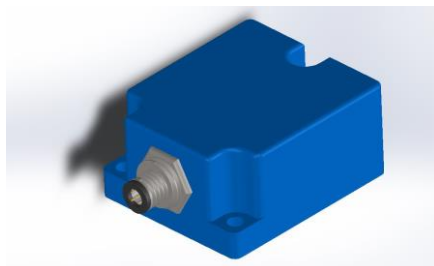


Angle Sensor

Product Overview: Angle Sensors measure angles with high accuracy using a micromachined (MEMS) Accelerometer and Gyroscope. Angel Sensor Model SCTAS-01-CAN has built in advanced fusion algorithm to derive accurate angle. Angle sensor operates on microcontroller with automotive grade CAN transceiver. The CAN interface supports CAN Open protocol. Angel Sensor Model SCTAS-10-CAN measure angle in all three-axis based on the applications requirements.



Specifications: Model No.: SCTAS-01-CAN

<u>Measurement Parameters</u>	
Angle Range	+/- 180°
Accuracy	0.1° Static & 0.2° Dynamic
Linearity	+/- 0.02% FS
Resolution	0.01°
Sampling Rate	500hz
Output Data Rate	100hz
Output Bandwidth	20hz
Communication Interface	CAN, supports up to 2Mbps (default 250kbps)
<u>Physical & Mechanical Characteristics</u>	
Product Dimensions	50.5 x 43 x 24 mm
Enclosure Material	Aluminium 6061-T6
Operating Temperature	-40 to 70°C
Vibration environment	Vibration: 7g, 10~1000hz . Shock 50 g@11ms ½ Sine
Protection level	IP67
<u>Electrical Specifications</u>	
Operating Voltage	9 - 36 VDC
Power consumption	<300mW, <12mA @ 24V
Start Time	< 0.5S
EMC	ESD: 8kv IEC Contact, 12kv HBM; EFT: 4kV.Surge: 4kV

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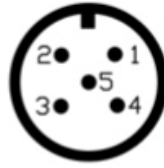


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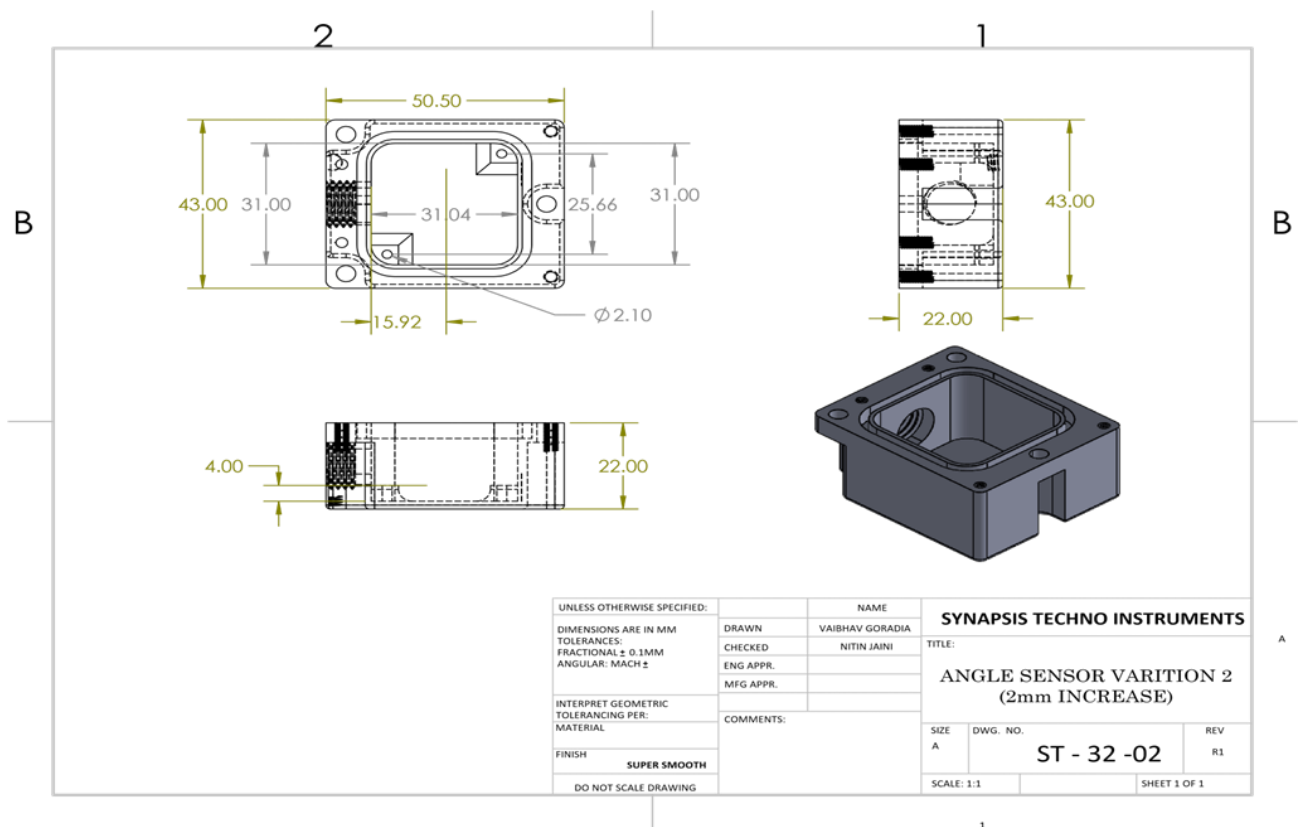
Angle Sensor

Electrical Connection



Pin Number	Pin Connection	Function
1	V+	Positive Power Terminal (9-36VDC)
2	V-	Negative Power Terminal
3	CAN-H	CAN-H Signal
4	CAN-L	CAN-L Signal
5	Shield	

Mechanical Dimensions in mm:



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