Specifications

Trimble AS460 Dual-Axis Angle Sensor



Standard Features

• J1939 CAN industry standard interface, with function instance support

• ± 45° angle operating range in two orthogonal axes (pitch/roll)

• Temperature stabilized output

• Mil-Spec bulkhead connector - 6 pin, rugged and sealed

• Submersible to 20+ meters of water

Internal power conditioning; 9-32 VDC input
 Precision locating holes for positioning and re-positioning

Flash updateable firmware

ROHS compliant

Physical Characteristics

Size:

 Height
 55 mm (2.16 in.)

 Width
 71 mm (2.80 in.)

 Length
 189 mm (7.44 in.)

 Weight:
 0.82 kg (1.8 lbs)

Mounting holes: 9.5 mm (0.374 in.) diameter (4 holes)

Environmental Characteristics

Temperature:

 Operating
 -40°C to +80°C (-40°F to +176°F)

 Storage
 -50°C to +85°C (-58°F to +185°F)

 Humidity:
 100% fully sealed

 Sealing:
 IP68; submersible to 20+ m of water

EMC:

Emmissions Compliant with CE (Exceeds ISO 13766:2006)
Susceptibility Compliant with CE (Exceeds ISO 13766:2006)

Technical Specifications

Electrical Input Voltage 9 to 32 V DC
Current Draw (maximum) 1.2 A
Current Draw (typical) < 0.4 A
Control Interface SAE J1939 CAN
Reverse Voltage Protection Yes, to -32 V DC
Load Dump Protected Yes, compliant to ISO 7637 specifications

Short Circuit Protected:

Yes, CAN and function instance lines to power and ground

Characteristic - Angle Sensor (each axis)

Range £45°
Resolution 0.01°
Cross-Axis Error <4%
Output Noise <0.1° of angle max.

Characteristic - Laser Receiver

Laser reception angle range – azimuth n/a



Specifications

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6 Pin AS450 Network Connector:

Pin -- Signal

A — SWPWR1

B - SELECT A

C — CANO_H

D — CAN0_L

E - SELECT_B

F — PWRGND1

Description -- Direction

Switched Power — Input

Function Instance Select "A" — Input

CAN HIGH — I/O

CAN LOW — I/O

Function Instance Select "B" — Input

Power Ground — Output

Trimble EVEREST™ multipath signal rejection

Specifications subject to change without notice.

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