Antenna Orientation and Location Sensing System

- Available as a retrofit to site-installed CommScope and Third Party antennas
- Monitors Azimuth, Tilt, Roll, Latitude, Longitude and Elevation
- Works with AISG 2.1 controllers as an Alignment Sensor Device and Geographic Location Sensor
- Works with AISG 2.0 controllers in RET emulation mode
- Verify Installations
- Long Term Monitoring

General Specifications

| AISG Input Connector         | 8-pin DIN Male               |
| AISG Input Connector Quantity| 1                            |
| AISG Output Connector        | 8-pin DIN Female             |
| AISG Output Connector Quantity| 1                           |

Azimuth Note: Accuracy may be affected by installation environment and satellite visibility

- Azimuth, nominal: ±2.5°
- Color: Gray
- Elevation: ±5 m
- Latitude: ±5 m
- Longitude: ±5 m
- Roll: ±1°
- Tilt: ±1°

Dimensions

- Height: 99 mm | 3.898 in
- Width: 325 mm | 12.795 in
- Depth: 166 mm | 6.535 in

Electrical Specifications

- Input Voltage: 10–30 Vdc
- Boot Time: 15 s
- Boot Time Note: Exceeds AISG 2.0 and 2.1 requirements
- Electromagnetic Compatibility (EMC): CFR 47 Part 15, Subpart B, Class A | EN 55022 | EN 55032 | EN 61000-4-2 | EN 61000-4-3 | EN 61000-4-4 | EN 61000-4-6

©2020 CommScope, Inc. All rights reserved. All trademarks identified by ® or ™ are registered trademarks, respectively, of CommScope. All specifications are subject to change without notice. See www.commscope.com for the most current information. Revised: November 20, 2020
Interface Protocol Signal
RS-485

Lightning Surge Capability Test Method
IEC 61000-4-5

Lightning Surge Capability Waveform
1.2/50 voltage and 8/20 current combination waveform

Lightning Surge Test Mode
Common mode

Power Consumption, maximum
3 W

Power Supply
AISG (compliant with AISG 2.1 ASD and GLS, exceeds AISG 2.0 RET)

Protocol
3GPP/AISG 2.0 compliant

Material Specifications

Material Type
ASA

Environmental Specifications

Operating Temperature
-40 °C to +70 °C (-40 °F to +158 °F)

Relative Humidity
Up to 95%, non-condensing

Climatic Sequence Test Method
IEC 60068-2-14

Cold Exposure Test Method
IEC 60068-2-1

Corrosion Test Method
IEC 60068-2-11, Test Condition Ka | IEC 60068-2-52, Test Condition Kb

Damp Heat Exposure Test Method
IEC 60068-2-30, Test Condition Db

Heat Exposure Test Method
IEC 60068-2-2

Ingress Protection Test Method
IEC 60529:2001, IP56

Packaged Product Shock Test Method
ASTM D4169 | GR-63-CORE, Section 4.1.1

Rain Simulation Test Method
IEC 60068-2-18, Test Condition Ra, Method 1

UV Resistance Test Method
IEC 60068-2-5, Test Condition B

Vibration Test Method
ASTM D4169 | IEC 60068-2-6

Packaging and Weights

Weight, net
1.5 kg | 3.307 lb

Regulatory Compliance/Certifications

Agency
Classification
CE
Compliant with the relevant CE product directives
CHINA-ROHS
Below maximum concentration value
ISO 9001:2015
Designed, manufactured and/or distributed under this quality management system
REACH-SVHC
Compliant as per SVHC revision on www.commscope.com/ProductCompliance