

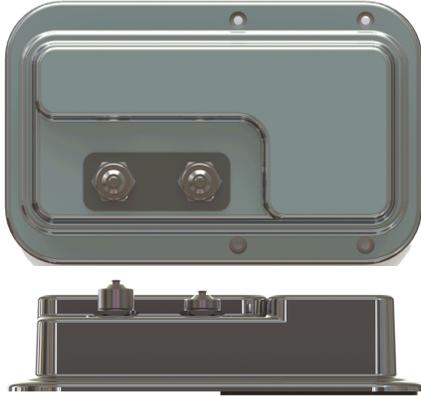


Antennas

DATA SHEET

Remote Electrical Tilt Actuator (RET)

BSA-RET200



- AISG 2.0/3GPP Protocol
- RS-485 Interface
- Daisy chaining capability
- Software upgradeable
- Rugged, weather resistant and highly reliable internal design
- Interoperability Tested with all leading BTS Manufacturers

Overview

The Remote Electrical Tilt (RET) Actuator is part of Communication Component Inc.'s complete RET System. The RET Actuator enables optimization on a continuous basis of the sector coverage pattern. It provides an RS485 control interface which is AISG 2.0 compatible. The RET Actuator when used with a Site Control Unit (SCU) or an AISG Compliant BTS enables remote fine tuning of the Site footprint without requiring a tower climb. The continuous adjustment capability allows changes to the antenna downtilt pattern to suit network optimization, changing traffic patterns or seasonal changes such as foliage absorption.

The Remote Electrical Tilt (RET) Actuator from CCI consists of an RS485 control interface driving a DC motor with an encoder, which connects to the existing antenna phase shifter that controls downtilt of the antenna pattern. The RET Actuator when used in conjunction with a Site Control Unit (SCU) or an AISG Compliant BTS seamlessly integrates with the carriers existing BTS equipment to achieve the desired performance results. The Remote Electrical Tilt Actuator is designed for outdoor environments and runs off +10 to +30V. CCI's RET Actuator is Interoperable with all leading BTS Manufacturers including Alcatel-Lucent, Ericsson, Huawei, Nokia Siemens and others. CCI RET's are designed and produced to ISO 9001 certification standards for reliability and quality in our state-of-the-art manufacturing facilities.



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SPECIFICATIONS

Remote Electrical Tilt Actuator (RET)

BSA-RET200

General Specifications

| | |
|--------------------------|-----------------|
| Part Number | BSA-RET200 |
| Protocols | AISG 2.0 |
| RET Type | Type 1 |
| Adjustment Cycles | >10,000 cycles |
| Tilt Accuracy | ±0.1° |
| Temperature Range | -40° C to 70° C |

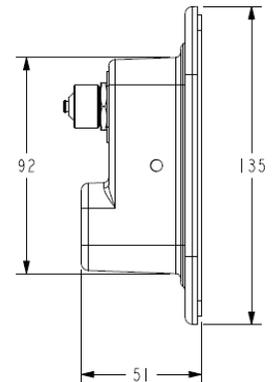
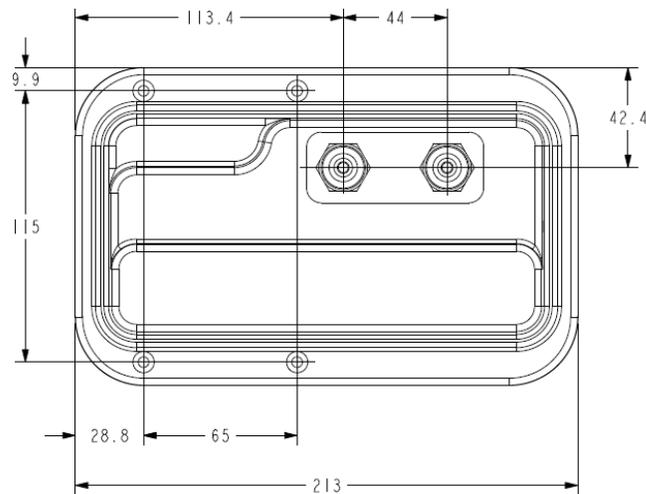
Electrical

| | |
|---------------------------------|------------------------------|
| Data Interface Signal | DC |
| Input Voltage | 10-30 Vdc |
| Current Consumption Tilt | 120 mA at $V_{in}=24$ |
| Current Consumption Idle | 55 mA at $V_{in}=24$ |
| Hardware Interface | AISG-RS 485 A/B |
| Input Connector | Male 1 × 8 pin Daisy Chain |
| Output Connector | Female 1 × 8 pin Daisy Chain |

Mechanical

| | |
|---------------------------|---------------------------------|
| Dimensions (LxWxD) | 8.0x5.0x2.0 in. (213x135x51 mm) |
| Housing | ASA/ABS/Aluminum |
| Weight | 1.7 lbs (0.75 kg) |

ASA= Acrylic Styrene Acrylonitrile
ABS=Acrylonitrile Butadiene Styrene





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ORDERING

Remote Electrical Tilt Actuator (RET)

BSA-RET200

Parts & Accessories

Part Number BSA-RET200

Overall Weight 1.7 lbs (0.75 kg)



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STANDARDS &
CERTIFICATIONS

Remote Electrical Tilt Actuator (RET)

BSA-RET200

Certifications

| | |
|----------------------|--|
| Safety | EN 60950-1, UL 60950-1 |
| Emission | EN 55022 |
| Immunity | EN 55024 |
| Environmental | IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-5, IEC 60068-2-6, IEC-60068-2-11, IEC 60068-2-14, IEC 60068-2-18, IEC 60068-2-27, IEC 60068-2-29, IEC 60068-02-30, IEC 60068-2-52, IEC 60068-2-64, GR-63-CORE 4.3.1, EN 60529, IP 24 |

Antenna Interface Standards Group (AISG), Federal Communication Commission (FCC) Part 15 Class B, CE, CSA US

