HammerHead

POSITIONER SERIES



Miniature pan-andtilt positioner

Features

- Ultra-compact pan-and-tilt positioner with absolute position feedback
- Variable-speed brushless motors give unlimited rotation in both axes
- Corrosion-resistant 316 stainless steel or 6061-T6 (AHC black) aluminum housing
- Rated to 1,000 m (3,300 ft) air-filled or to 6,000 m (20,000 ft) pressurebalanced and oil-filled
- Multi-drop RS232 or RS485 control with soft-addressing allows up to 254 units on a single serial port
- ASCII protocol and Windows GUI
- User-settable soft-stops
- Wide input supply
- Built-in "go-to" positioning functions with user presets
- Also available as a single-axis rotator

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ARCTIC RAYS

SUBSEA TECHNOLOGIES

Technical specifications on reverse.

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HammerHead

Technical Specifications

| PARAMETER | SPECIFICATION |
|---|---|
| Model Number | AR 301 |
| MECHANICAL | |
| Axes | Two, independent orthoganal |
| Rated Torque (per axis @ 24 V) | 6.8 N-m (5 ft-lbs) |
| Rotation Range | Unlimited (360° continuous); internal soft limits may be set by user commands. |
| Speed Range (no load) | 3–30%sec. (0.5–5 RPM) |
| Speed Control | Proportional; 0–100% in 1% increments |
| Maximum Payload | 10 kg (22 lbs); consult factory for mounting recommendations |
| Position Feedback | Absolute digital; resolution: 12-bit (0.1°) |
| Gearbox Type | Planetary |
| Backlash | 60 arc-min (1.0°) standard; backlash is reported by encoders |
| Braking | Electronic |
| Housing Materials | 6061-T6 aluminum (AHC black) or 316 stainless steel |
| Weights | Aluminum: 1.2 kg in air; 660 g in seawater; 316SS: 2.2 kg in air; 1.6 kg in seawater; add 200g when oil-filled |
| ELECTRICAL | |
| Voltage | 10–40 VDC standard |
| Current Draw (per axis @ 24 V) | No load: 120 mA; rated load: 350 mA, limit: 450 mA |
| INTERFACE | |
| Connector | Subconn MCBH4M standard |
| Control | Multidrop RS232 or RS485 (2-wire) serial; 254 soft addresses |
| Positioning Methods | Go-to absolute, go-to preset, user-defined (speed commands) |
| Pressure Compensation (oil-filled only) | Integral PBOF tube standard; external port optional |
| ENVIRONMENTAL | |
| Depth Rating | 1,000 m (3,300 ft) air-filled; 6,000 m (20,000 ft) oil-filled |
| Temperatures | -10°C to 45°C operating; -10°C to 60° C storage |



