

Underwater positionners



Miniature Design

Underwater rotators and pan-tilt units range for cameras, illuminators or sensors. These products have a unique size for use in compact spaces.

These rotators feature go-to functionality, which allows you to pre-program your lighting and camera positioning for coordinated, automated movements at the touch of a button.



Description

- Ultra-compact positioners with absolute position feedback
- Unlimited rotation on both axes
- Corrosion resistant 316 stainless steel or 6061-T6 aluminum (black AHC)
- Resistant up to 1000m with compressed air or 6000m, pressure balanced and oil filled
- Multipoint RS232 or RS485 control with 254 addresses
- Standard immersion 1000m, optional 6000m



Technical specifications:

	2 AXIS (PAN et TILT)	1 AXIS
	STANDARD TORQUE (6.8N-m)	STANDARD TORQUE (6.8N-m)
	Part number. UW-PANT360	Part number. UW-ROTOR360
Axes	Two, PAN and TILT	1
Rated Torque (per axis @ 24 V)	6,8 N-m (5 ft-lbs)	6,8 N-m (5 ft-lbs)
Rotation Range	Unlimited (360° continuous); internal soft limits may be set by user commands	Unlimited (360° continuous) ; internal soft limits may be set by user commands
Speed Range (no load)	3-30°/sec. (0,5-5 RPM)	3-30°/sec. (0,5-5 RPM)
Speed Control	Proportional; 0–100% in 1% increments	Proportional; 0–100% in 1% increments
Maximum Payload	10 kg (22 lbs)	10 kg (22 lbs)
Position Feedback	Absolute digital ; resolution: 12-bit (0.1°)	Absolute digital ; resolution: 12-bit (0.1°)
Gearbox Type	Planetary	Planetary
Backlash	60 arc-min (1.0°) standard; backlash is reported by encoders	60 arc-min (1.0°) standard; backlash is reported by encoders
Braking	Electronic	Electronic
Housing Materials	6061-T6 aluminum (AHC black) or 316 stainless steel	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	Aluminum: 680 g in air; 360 g in seawater; 316SS: 1.4 kg in air; 1.1 kg in seawater; add 100g when oil-filled
Voltage	10-40 VDC standard	10–40 VDC standard
Current draw (per axis @ 24 V)	No load : 120 mA ; rated load: 350 mA, limit: 450 mA	No load : 120 mA ; rated load: 350 mA, limit: 450 mA
Connector	Subconn MCBH4M standard	Subconn MCBH4M standard
Control	Multidrop RS232 or RS485 (2-wire) serial ; 254 soft addresses	Multidrop RS232 or RS485 (2-wire) serial ; 254 soft addresses
Positioning methods	Go-to absolute, go-to preset, user-defined (speed commands)	Go-to absolute, go-to preset, user-defined (speed commands)
Pressure compensation (oil-filled only)	Integral PBOF tube standard, external port optional	Integral PBOF tube standard, external port optional
Depth rating	1 000 m (3 300 ft) air-filled; 6 000 m (20 000 ft) oil-filled	1 000 m (3 300 ft) air-filled; 6 000 m (20 000 ft) oil-filled
Temperatures	-10°C à 45°C operating ; -10°C à 60°C storage	-10°C à 45°C operating ; -10°C à 60°C storage
	REINFORCES TORQUE (13.6N-m) Réf. UW-PANT360X	REINFORCES TORQUE (13.6N-m) Réf. UW-ROTOR360X



EMBARQUÉ