

R-5 MINIATURE ROTATOR UNIT



4 N-m (3 lb-ft) of output torque

24 VAC power input

**Corrosion-resistant housing is ideal
for use in hazardous environments**



Remotely position your camera system, acoustic equipment and other instrumentation with this ROS compact single axis rotator.

The unparalleled reliability of the R-5 is due in part to its rugged construction. Housings and machined components are made of corrosion resistant, hard-anodized aluminum. All external hardware is made of stainless steel, with oceanographic and nuclear applications in mind.

The compact R-5 provides 4 N-m (3 lb-ft) of output torque. The drive train for the rotator uses a reversible synchronous motor, coupled to low backlash gearing. The rugged design of the gear train allows stalling of the output shaft without damage to the gear or the motor.

All ROS positioning units are available in either dual or single axis configurations.

ROS has been manufacturing an array of harsh environment cameras, lights, positioners, and specialized systems designed for oceanographic, nuclear, industrial, and military applications for over 34 years.

R-5 - Miniature Rotator Unit

PERFORMANCE

Power:	24 VAC, 0.25 amps
Torque:	3 lb-ft (4 N-m)
Rotation Speed:	4.5 degrees/second (0.72 RPM) @ 60 Hz
Gear Backlash:	36 arc minutes (0.60 degrees)
Scan Range:	360 degrees continuous

MECHANICAL

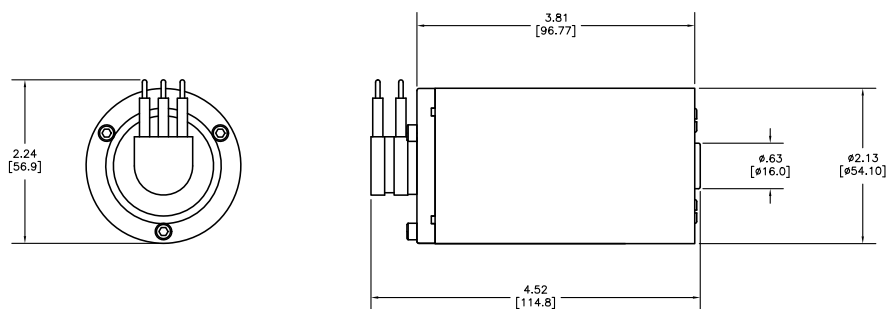
Housing Material:	Anodized 6061-T6 Aluminum
Housing finish:	Hard black anodize
Width:	56.9 mm (2.24 in)
Overall Length:	114.0 mm (4.50 in)
Main Body Diameter:	54.1 mm (2.13 in)
Output Shaft Diameter:	15.9 mm (0.625 in) diameter
Weight (in air):	0.75 kg (1.65 lbs)
Weight (in water):	0.45 kg (1.00 lbs)
Connector:	LPMBH-3-MP
Mating Connector:	LPMIL-3-FS
Equipment Mounting:	Three 8-32 threaded holes in shaft

ENVIRONMENTAL

Operating Depth (Air Filled):	30 m (100 ft)
Operating Temperature:	0°C to +50°C (32°F to 122°F)
Storage Temperature:	-20°C to +60°C (-4°F to 140°F) in air
Radiation Tolerance:	1 x 10 ⁸ rad (max accumulated dose)

ROS STANDARD PIN-OUT

- 1 - COMMON
- 2 - CW
- 3 - CCW



5618 Copley Drive
San Diego, CA 92111 USA
Tel (858) 565-8500
Fax (858) 565-8808
East Coast Office (804) 754-3936

www.rosys.com
sales@rosys.com