

PES10

Ultra Precision Electromechanical Rotator

Zero Backlash, High Torque Single Axis Rotator Units for Radar and Directional Antenna Applications

APPLICATIONS

Border · Armored · UGV · Targeting · **Radar** · Comms mast

QUALIFIED TO **MIL-STD-810G · MIL-STD-461G**

NOMINAL SPEED	NOMINAL TORQUE	PEAK TORQUE	AXIS RESOLUTION	WEIGHT
25 °/s	185 Nm	250 Nm	0,002°	9,5 kg

MAIN FEATURES

Zero-Backlash Single-Axis Rotator

High-torque azimuth rotation with no rotational play, for radar and directional antenna applications that cannot tolerate pointing error.

Torque Configured to the Load

Output torque is selected from 185 Nm to 1032 Nm on the same **135 mm** envelope, so one product line covers light antennas to heavy radar arrays.

STANDARD CONFIGURATION

PES10-0250-0185 · Tolerance **±5 %**

PERFORMANCE PARAMETERS	
Pan – Nominal Speed	**25 °/s**
Pan – Nominal Torque	**185 Nm**
Axis Resolution	**0,002°**
Accuracy	**0,04°**
Repeatability	**0,031°**
Weight	**9,5 kg**
SLIPRING	
Line Count	**24 pcs**
Signal 1	**1 Gbit Ethernet**

ELECTRICAL & INTERFACE	
Operating Voltage	**18-32 VDC**
Communication Interface	**RS-422**
Connector Type	**MIL-DTL-38999**
MECHANICAL DATA	
Height	**215 mm**
Diameter	**135 mm**
Material – Main Body	**Aluminum 6061-T6**

HOW TO ORDER

Every step, option and test: **Product Catalog, page 33**

PART NUMBER	**PES10 – [drive unit] – [options]** · 4 build combinations
STEP 1 · DRIVE UNIT	4 codes · Nominal Speed 4,5-25 °/s · Nominal Torque 185-1.032 Nm · Peak Torque 250-1.114 Nm
OPTIONS	**SRSH** Sun and Rain Shield **LG##** Label Language