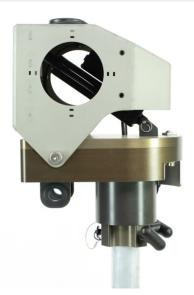
## QLA-360RPT-20



AUTO ACQUISITION ANTENNA POSITIONER FOR MICROWAVE LINE OF SIGHT



The QLA-360RPT-20 is a Power Over Ethernet (PoE) antenna positioner designed from the ground up to automatically point and peak directional antennas for microwave line of sight communications.

The built in GPS and digital compass with full featured web based user interface provides rapid and accurate antenna pointing. The user interface includes a stored locations database that allows easy recall of known target locations followed by a final auto peak using radio signal strength.

The QLA-360RPT-20 is typically paired with 2-3 ft antennas, payloads up to 90 lbs (40.8 kg), and offers 360° of azimuth and +/-10° of elevation range. Download the Interface Control Drawing (ICD) for more details.

Optional tri-pods, table top mount, radio adapter brackets, antenna adapter brackets, polarization rotators, joysticks, and transit cases are also available.

	TECHNICAL SPECIFICATIONS - QLA-360RPT-20		
Power	Power Over Ethernet (POE) 48VDC-56VDC Supply Included		
Material / Finish	Aluminum with stainless steel hardware / Hard coat anodize		
Positioner Travel			
Azimuth	400° (+/-200°)		
Elevation	20° (+/-10°)		
Positioner Drive Rate			
Azimuth	Variable, up to 2.2°/sec no load		
Elevation Variable, up to 2°/sec no load			
Temperature			
Operational -22 to 140°F (-30 to 60°C)			
Survival	-40 to 158°F (-40 to 70°C)		
Feedback Resolution	0.1°		
Backlash (Az / El)	less than 0.15° / less than 1°		
Torque			
Operational (both axes)	100 ft-lbs (135.6 Nm)		
Survival (Az / El)	val (Az / El) 200 ft-lbs / 150 ft-lbs (271.2 Nm / 203.4 Nm)		
Payload	d 90 lbs (40.8 kg)		
Dimensions	nsions Height: 15.32" (38.9 cm), Width: 9.13" (23.2 cm), Depth: 11.07" (28.1 cm)		
Weight	21.0 lbs (9.5 kg)		
Mounting Interface	Clamps standard to a 2" dia mast (5 cm). Optional table top mount available		
Antenna Mount Options	1/4-20 thumb nuts (tool-less) and 3/8-16 threaded holes (See ICD for details)		
Communication Interface			
Web User Interface	Web based hosted internal to unit, Pelco D		
Ethernet	10/100 Ethernet		
Serial	RS-485		

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Specifications subject to change without notice

	150 = 150 ft   200 = 200 ft   250 = 250 ft   300 = 300 ft   XXX = Custom length in feet   XXXC = Add "C" to end of cable length for unterminated mating connector   CUSTOM CONFIGURATION   = Standard options - leave blank   MOTOR DRIVES AND PAYLOAD   20 = Az 60 ft-lbs @ 2.2°/s, El 100 ft-lbs @ 2°/s, 90 lb payload. Typically paired with 2-3 ft antenna (+/-200° azimuth, +/-10° elevation)   MODEL   LA-360RPT = LinkAlign-360RPT (See motor drives and payload section for positioner travel range info)
	200 = 200 ft   250 = 250 ft   300 = 300 ft   XXX = Custom length in feet   XXXC = Add "C" to end of cable length for unterminated mating connector   CUSTOM CONFIGURATION   = Standard options - leave blank   MOTOR DRIVES AND PAYLOAD   20 = Az 60 ft-lbs @ 2.2°/s, El 100 ft-lbs @ 2°/s, 90 lb payload. Typically paired with 2-3 ft antenna (+/-200° azimuth, +/-10° elevation)   MODEL   LA-360RPT = LinkAlign-360RPT (See motor drives and payload section for positioner
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	200 = 200 ft 250 = 250 ft 300 = 300 ft XXX = Custom length in feet
	200 = 200 ft
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	SHIELDED ETHERNET CABLE STANDARD LENGTHS 050 = 50 ft 100 = 100 ft
	LA-360RPT - 20 100 < <example< th=""></example<>
	BUILDING A PART NUMBER STANDARD OPTIONS
	TABLE I
19	MOUNTING HOLES FOR OPTIONAL COUNTER WEIGHT KIT, P/N - ACC-N900281-1
18	5/16" QUICK RELEASE PIN TO SECURE POSITIONER TO MAST AND PREVENT ROTATION
17	POSITIONER CLAMPS TO STANDARD 2" OUTSIDE DIAMETER MAST (NOT INCLUDED). OPTIONAL MIDMOUNT KIT AVAILABLE TO ADAPT TO MAST DIAMETERS UP TO 6". GO T www.qparusa.com TO LEARN MORE
	POSITIONER IS AT AZIMUTH PEDESTAL 0° WHEN INDICATED FASTENER IS AT POSITION SHOWN WITH CLAMPING KNOBS IN THE BACK AS SHOWN
)	HEAD FASTENERS. HARDWARE PROVIDED WITH UNIT. TORQUE TO 132 IN-LBS
15	OF THE 2.00" DIAMETER MOUNTING POLE
14	DIRECTION AND 1.7" (4.3 cm) IN THE Z-DIRECTION. X & Z MEASURED FROM THE CENT
13	
12	PAYLOAD SHALL NOT EXCEED 90 LBS OR 100 FT-LBS OF TORQUE ABOUT THE ELEVATIC AXIS. TO CALCULATE TORQUE, TAKE THE DISTANCE FROM THE PAYLOAD CENTER OF GRAVITY TO DATUM -H- IN FEET AND MULTIPLY BY THE PAYLOAD WEIGHT. SEVERAL ANTENNA BRACKET OPTIONS AVAILABLE THAT INTERFACE DIRECTLY WITH FEATURES SHOWN. GO TO www.qparusa.com TO LEARN MORE
	WEIGHT APPROXIMATELY 21.0 LBS (9.5 kg) NOT INCLUDING POE CABLE
10	15.32" (38.9 cm) HIGH X 9.12" (23.2 cm) WIDE X 11.06" (28.1 cm) DEEP. DIMENSIONS APPLY WHEN POSITIONER IS AT 0° AZIMUTH AND 0° ELEVATION ANGLES
9.	AZIMUTH BACKLASH LESS THAN 0.15°. ELEVATION BACKLASH LESS THAN 1°
	0.1° FEEDBACK RESOLUTION IN ALL AXES
7.	-22° TO 140°F (-30° TO 60°C) OPERATIONAL TEMPERATURE RANGE40 TO 158°F (-40 TO 70°C) NON-OPERATIONAL TEMPERATURE RANGE
	20° (+/-10°) ELEVATION TRAVEL WITH 2.0°/SEC DRIVE RATE (NO LOAD)
6.	400° (+/-200°) AZIMUTH TRAVEL WITH 2.2°/SEC DRIVE RATE (NO LOAD)
	HARD COAT ANODIZE ALUMINUM CONSTRUCTION WITH STAINLESS STEEL HARDWARE
5.	48-56VDC, POWER SUPPLY INCLUDED WITH POSITIONER. NOT SHOWN IN DRAWING
4. 5.	
3. 4. 5.	USE INTERFACE CONTROL DRAWING IN CONJUNCTION WITH DATASHEET N500124

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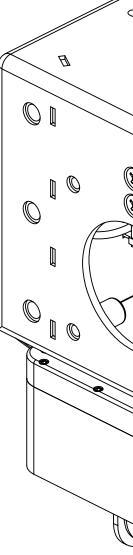
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NOTES: UNLESS OTHERWISE SPECIFIED



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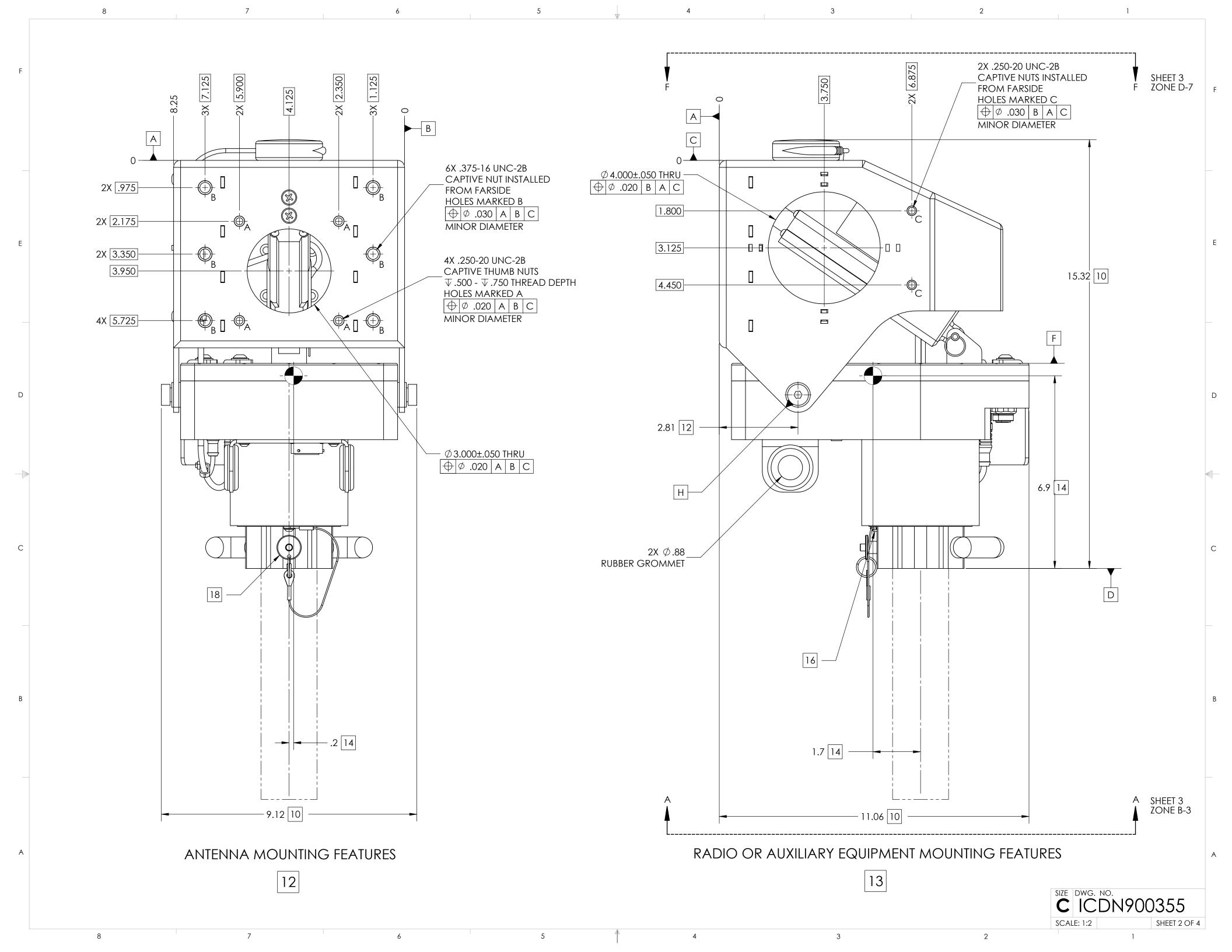
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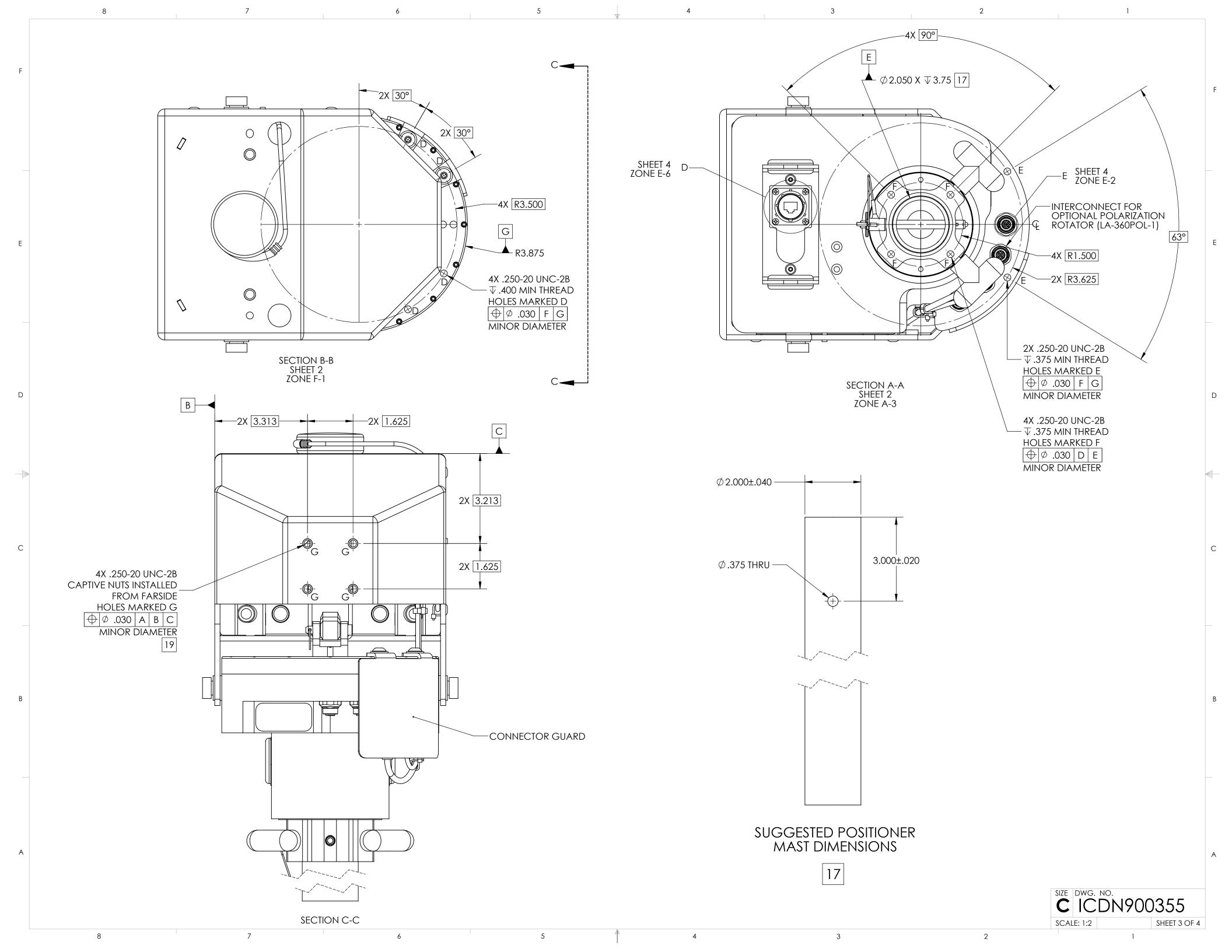
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PROPRIETARY AND CONFIDENTIAL TWO PLACE DECIMAL ±.030   THE INFORMATION CONTAINED IN THREE PLACE DECIMAL ±.010   THIS DRAWING IS THE SOLE INTERPRET DIM AND TOL PER   PROPERTY OF OPARUSA. ANY INTERPRET DIM AND TOL PER   REPRODUCTION IN PART OR AS A ASME Y14.5M - 1994   WHOLE WITHOUT THE WRITTEN PERMISSION OF OPARUSA IS   PROHIBITED. THIRD ANGLE PROJECTION	C. CHEYNE 2 S. CHEYNE 2	SIZE D	Antennas USA QLA-360RI ERFACE CO DRAWIN WG. NO. CDN9003	PT-20 ONTROL IG Rev	A

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## INTERCONNECT FOR POSITIONER POE

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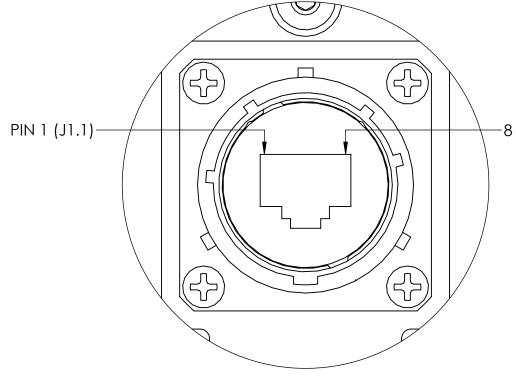
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J1 CONNECTOR SHOWN FROM MATING SIDE MATES WITH AMPHENOL P/N - RJF6B

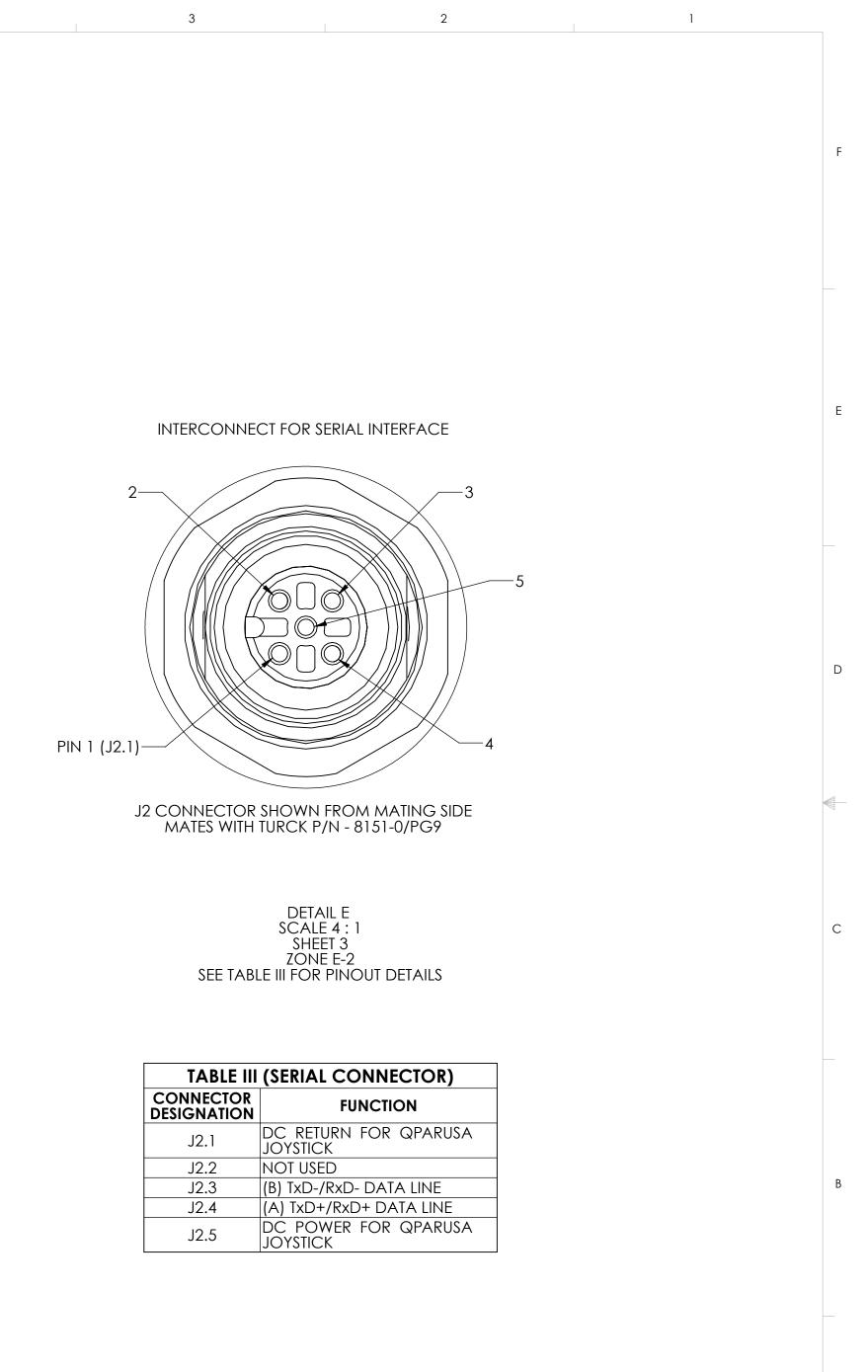
DFTAIL D	
SCALE 2:1	
SHEET 3	
ZONE E-3	
SEE TABLE II FOR PINOUT DETAILS	S

TABLE II (POE CONNECTOR)					
CONNECTOR DESIGNATION	FUNCTION				
J1.1	DATA PAIR 1				
J1.2	DATA PAIR 1				
J1.3	DATA PAIR 2				
J1.4	+48-56VDC PoE POWER INPUT				
J1.5	+48-56VDC PoE POWER INPUT				
J1.6	DATA PAIR 2				
J1.7	DC RETURN FOR POE INPUT				
J1.8	DC RETURN FOR POE INPUT				

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