QLA-360AZR-10 AUTO ACQUISITION ANTENNA POSITIONER FOR MICROWAVE LINE OF SIGHT





The QLA-360AZR-10 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-360AZR-10 is specifically designed to interface with the U.S. and NATO forces Band III, Band III+, and Band 4 line of sight radio systems. The positioner can accommodate payloads up to 60 lbs (27.2 kg), and offers 360° of azimuth 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-360AZR-10
Power	Power Over Ethernet (POE) 48VDC-56VDC Supply Included
Material / Finish	Aluminum with stainless steel hardware / Hard coat anodize
Positioner Travel	
Azimuth	400° (+/-200°)
Positioner Drive Rate	
Azimuth	Variable, up to 4.5°/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	less than 0.25°
Torque	
Operational	20 ft-lbs (27.1 Nm)
Survival	50 ft-lbs (67.8 Nm)
Payload	60 lbs (27.2 kg)
Dimensions	Height: 14.85" (37.7 cm), Width: 7.75" (19.7 cm), Depth: 10.00" (25.4 cm)
Weight	13.5 lbs (6.1 kg)
Mounting Interface	Clamps standard to a 2" dia mast (5 cm). Optional table top mount available
Antenna Mount Options	1.555" (39.5cm) pole mount with anti rotation pin (See ICD for details)
Communication Interface	
User Interfaces	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

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NOTES: UNLESS OTHER	ISE SPECIFIED
	NFIGURABLE OPTIONS PER TABLE I. PART NUMBER HOWN THROUGHOUT THIS DRAWING. POE CABLE SHOWN
2. USE INTERFACE C	NTROL DRAWING IN CONJUNCTION WITH DATASHEET N500110
3. 48-56VDC POWE	SUPPLY INCLUDED WITH POSITIONER. NOT SHOWN IN DRAWING
4. HARD COAT AND	IZE ALUMINUM CONSTRUCTION WITH STAINLESS STEEL HARDWARE
5. 400° (+/-200°) AZI	UTH TRAVEL WITH 4.5°/SEC DRIVE RATE (NO LOAD)
6. NOT USED	
	O 60°C) OPERATIONAL TEMPERATURE RANGE40 TO 158°F (-40 TO ONAL TEMPERATURE RANGE
8. 0.1° FEEDBACK R	DLUTION
9. AZIMUTH BACKLA	I LESS THAN 0.25°
10 14.85" (37.1 cm) I	GH X 7.75" (19.7 cm) WIDE X 10.00" (25.4 cm) DEEP
11. WEIGHT APPROX	ATELY 13.5 LBS NOT INCLUDING POE CABLE
12 PAYLOAD SHALL	OT EXCEED 60 LBS ON INDICATED MAST
13 RADIO OR AUXIL	RY EQUIPMENT MOUNTING FEATURES. 20 LBS MAX
	Y 0.2" (0.5 cm) IN THE X-DIRECTION, 5.2" (13.2 cm) IN THE Y- 5" (1.5 cm) IN THE Z-DIRECTION. X & Z MEASURED FROM THE CENTER ETER MOUNTING POLE
— THREADED KNOB	NSTALLATIONS, IT IS RECOMMENDED THAT THE (2) INDICATED 5/16-18 BE REPLACED WITH (2) 5/16-18 X 1.000'' LONG STAINLESS STEEL HEX HARDWARE PROVIDED WITH UNIT. TORQUE TO 132 IN-LBS
	ZIMUTH PEDESTAL 0° WHEN INDICATED FASTENER IS AT POSITION APING KNOBS IN THE FRONT AS SHOWN
	PS TO STANDARD 2" OUTSIDE DIAMETER MAST (NOT INCLUDED).
OPTIONAL MIDM	UNT KIT AVAILABLE TO ADAPT TO MAST DIAMETERS UP TO 6". GO TO 1 TO LEARN MORE
	SE PIN TO SECURE POSITIONER TO MAST AND PREVENT ROTATION
	TABLE I
BUILDING A PAR	
<u>LA-360AZR</u> - <u>10</u>	- 100 < <example SHIELDED ETHERNET CABLE STANDARD LENGTHS</example
	050 = 50 ft 100 = 100 ft
I I I	150 = 150 ft 200 = 200 ft
	250 = 250 ft 300 = 300 ft XXX = Custom length in fact
	300 = 300 ft XXX = Custom length in feet
	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
	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

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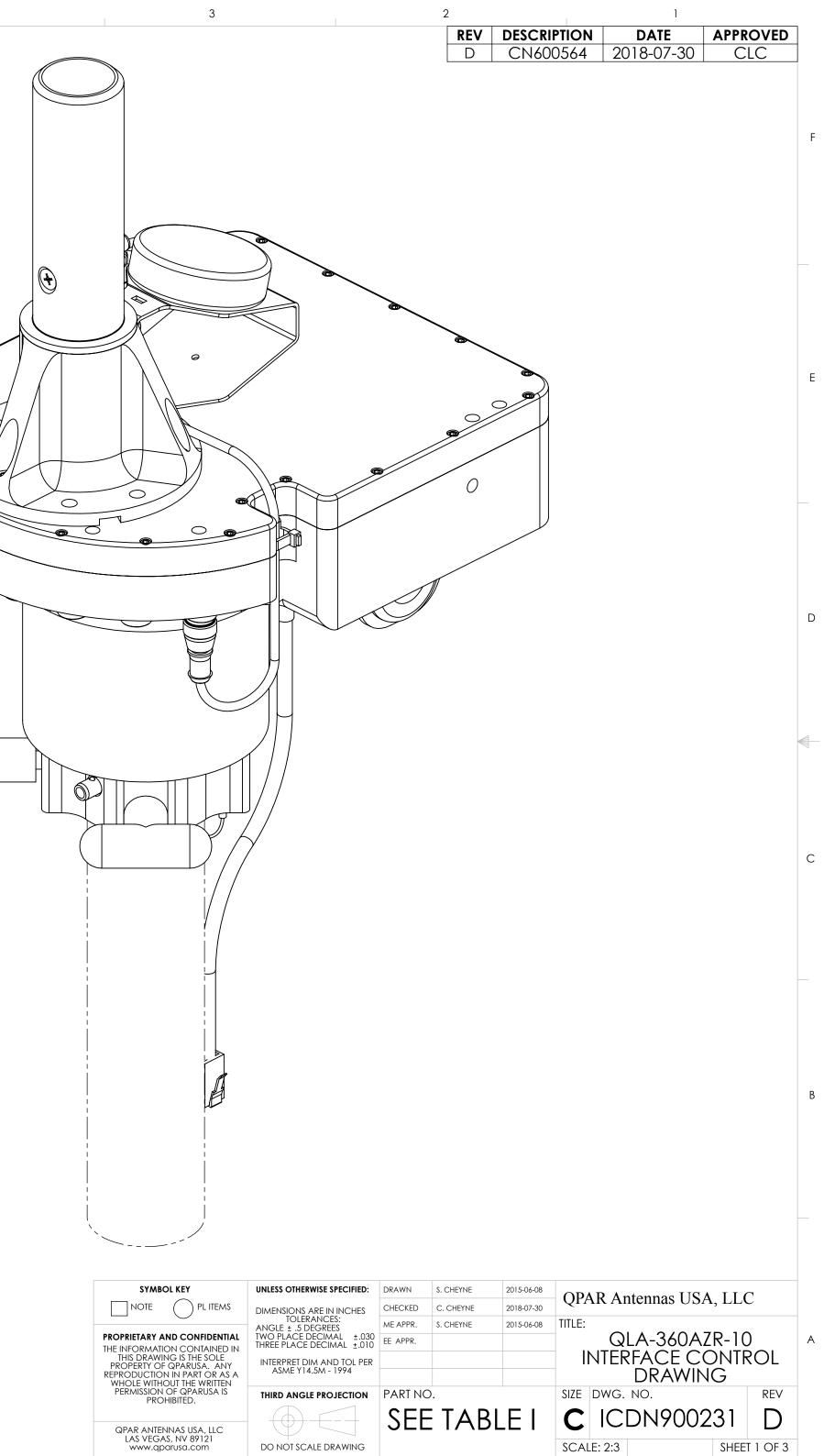
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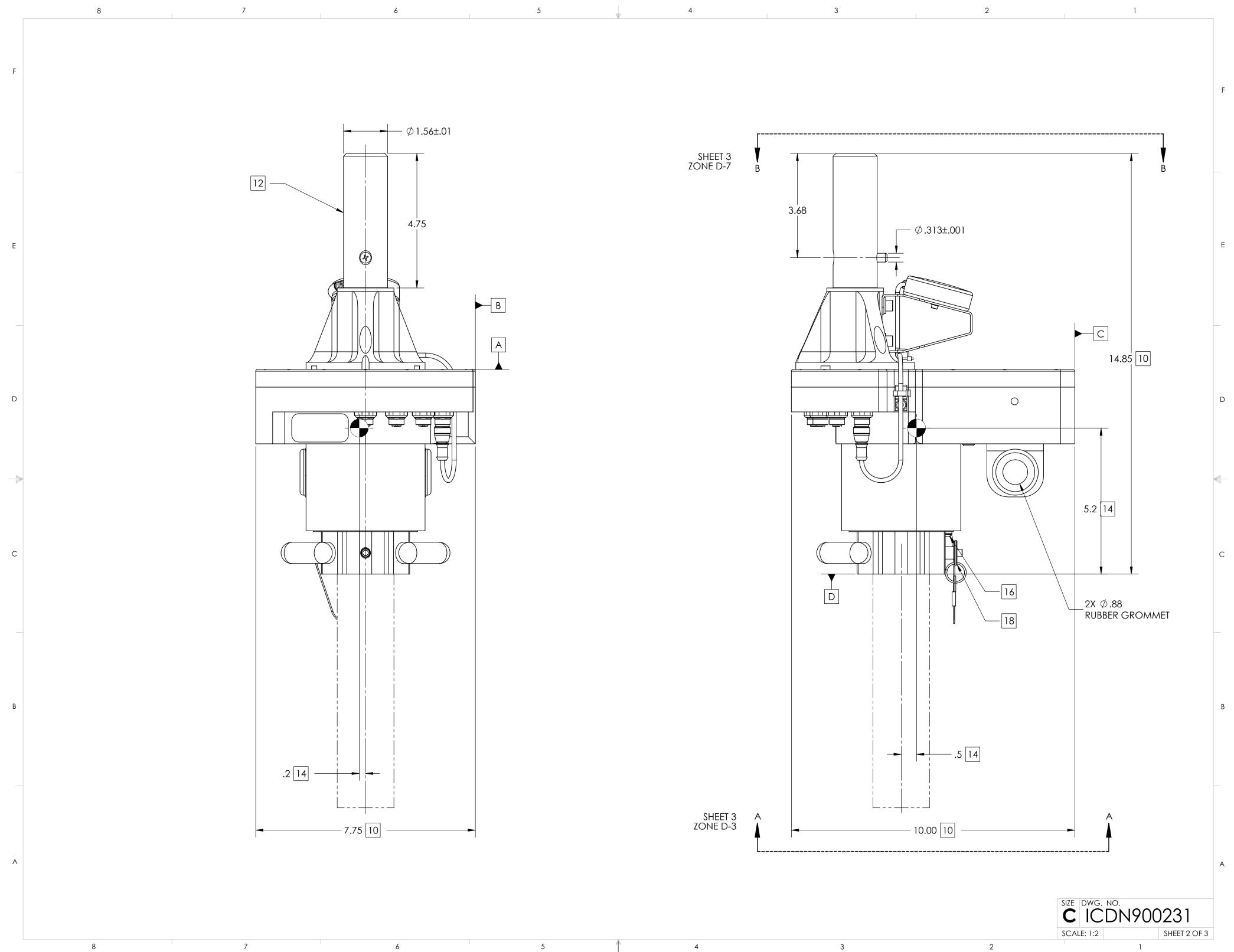
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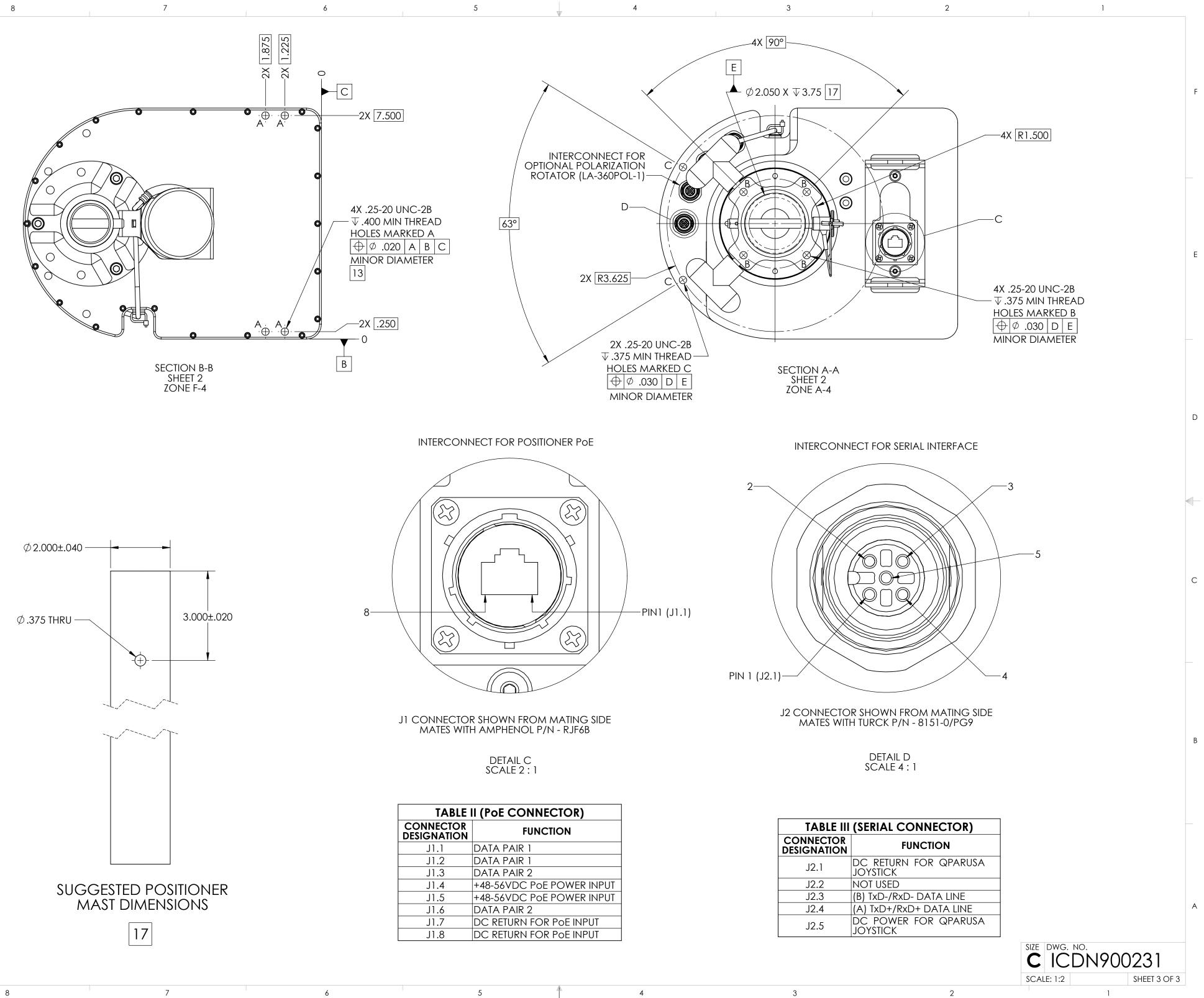
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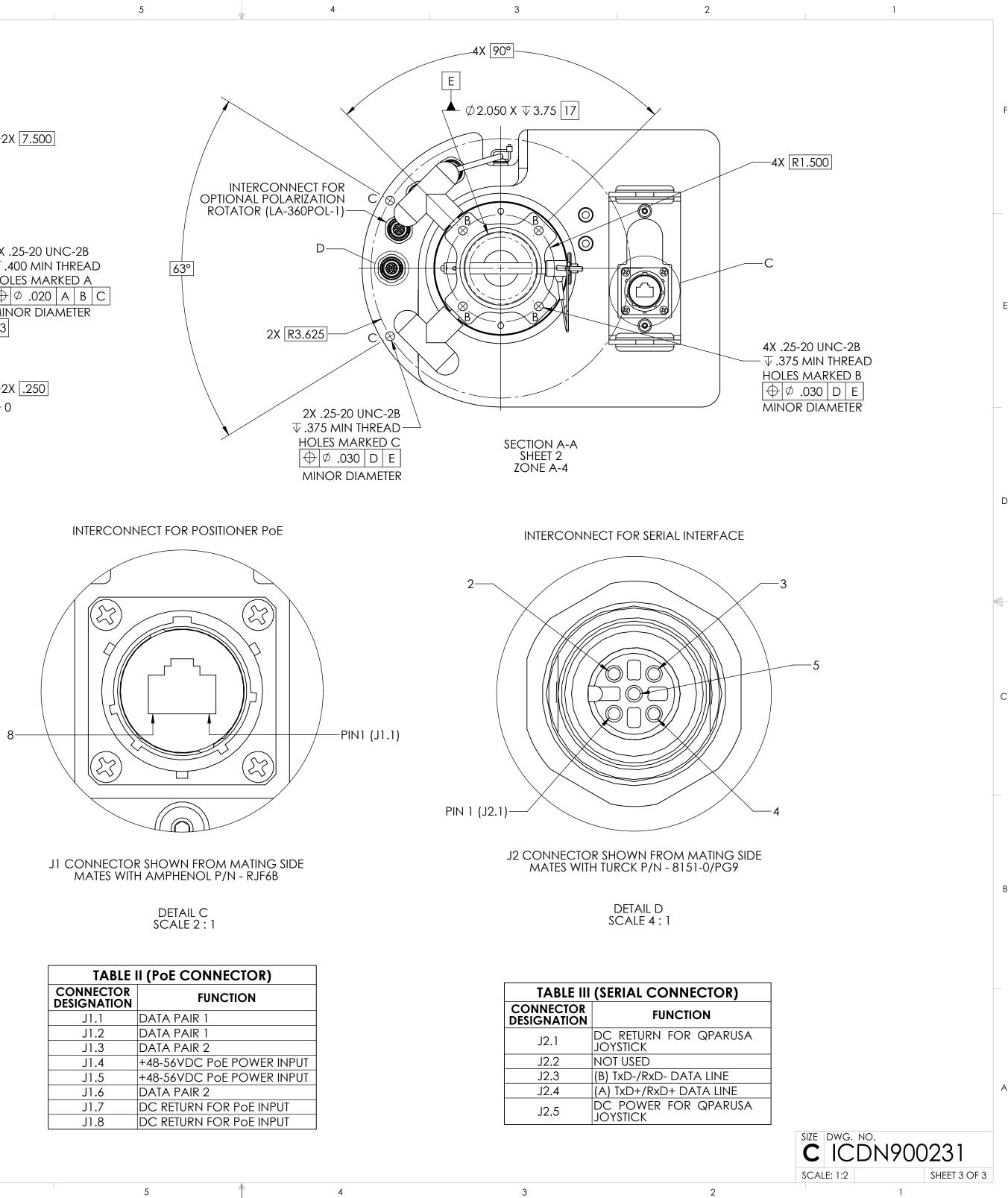
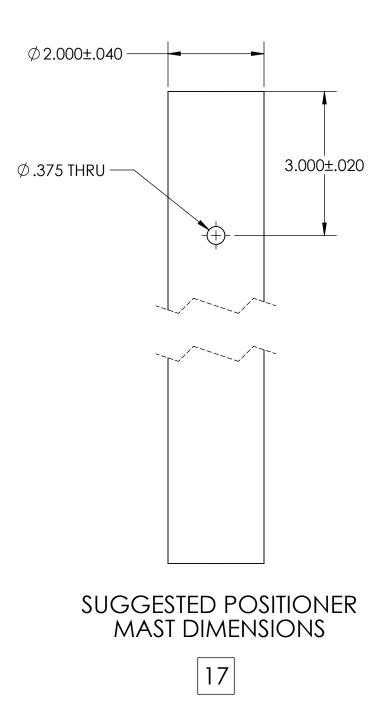


TABLE II (POE CONNECTOR)			
CONNECTOR DESIGNATION	FUNCTION		
J1.1	DATA PAIR 1		
J1.2	DATA PAIR 1		
J1.3	DATA PAIR 2		
J1.4	+48-56VDC PoE POWER INPUT		
J1.5	+48-56VDC PoE POWER INPUT		
J1.6	DATA PAIR 2		
J1.7	DC RETURN FOR POE INPUT		
J1.8	DC RETURN FOR POE INPUT		



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