QLA-360AZR-20





The QLA-360AZR-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-360AZR-20 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 90 lbs (40.8 kg), and offers 360° of azimuth range. Download the Interface Control Drawing (ICD) for more details.

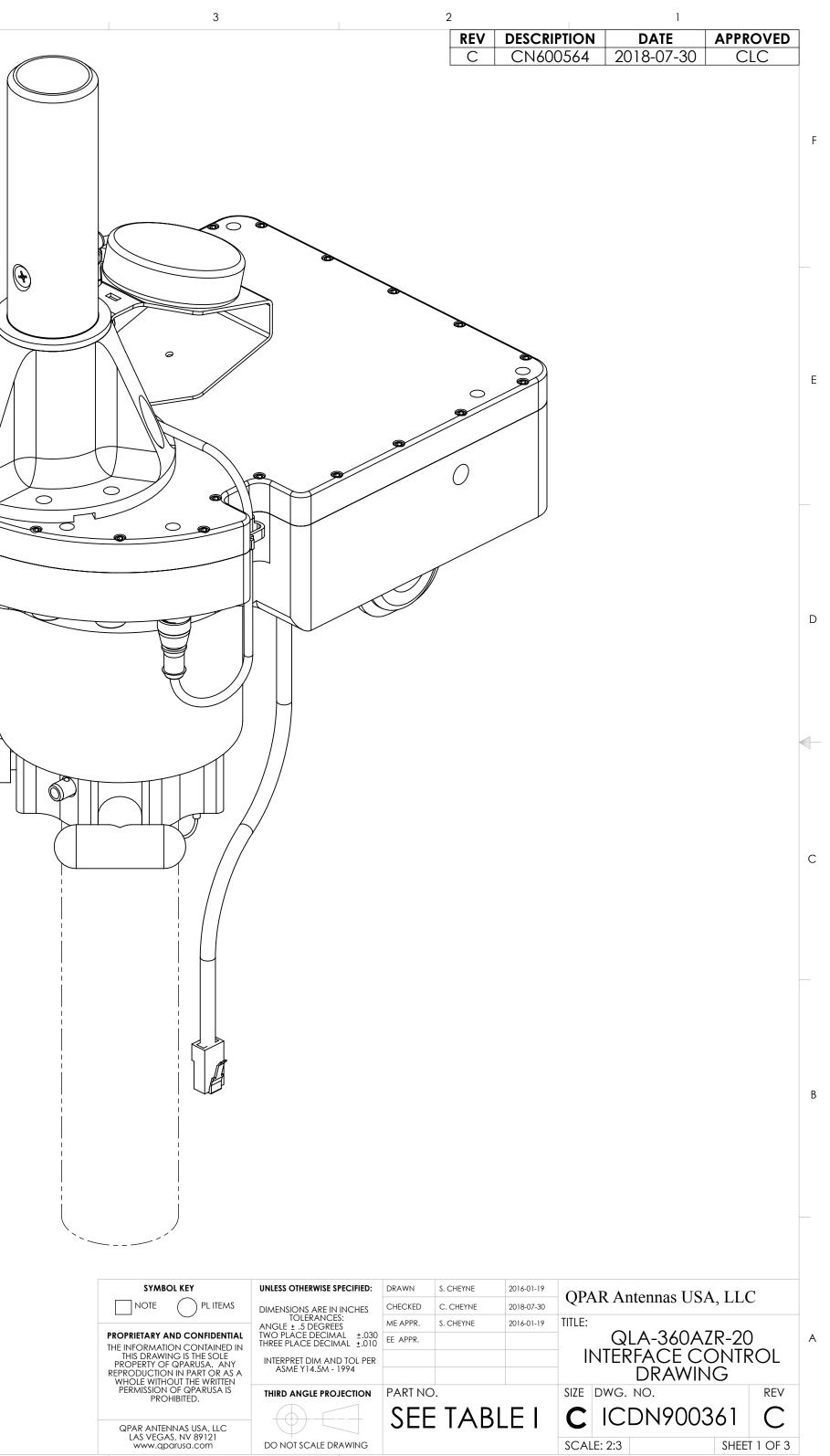
Optional tri-pods, table top mount, radio adapter brackets, antenna adapter brackets, polarization rotators, joysticks, and transit cases are also available.

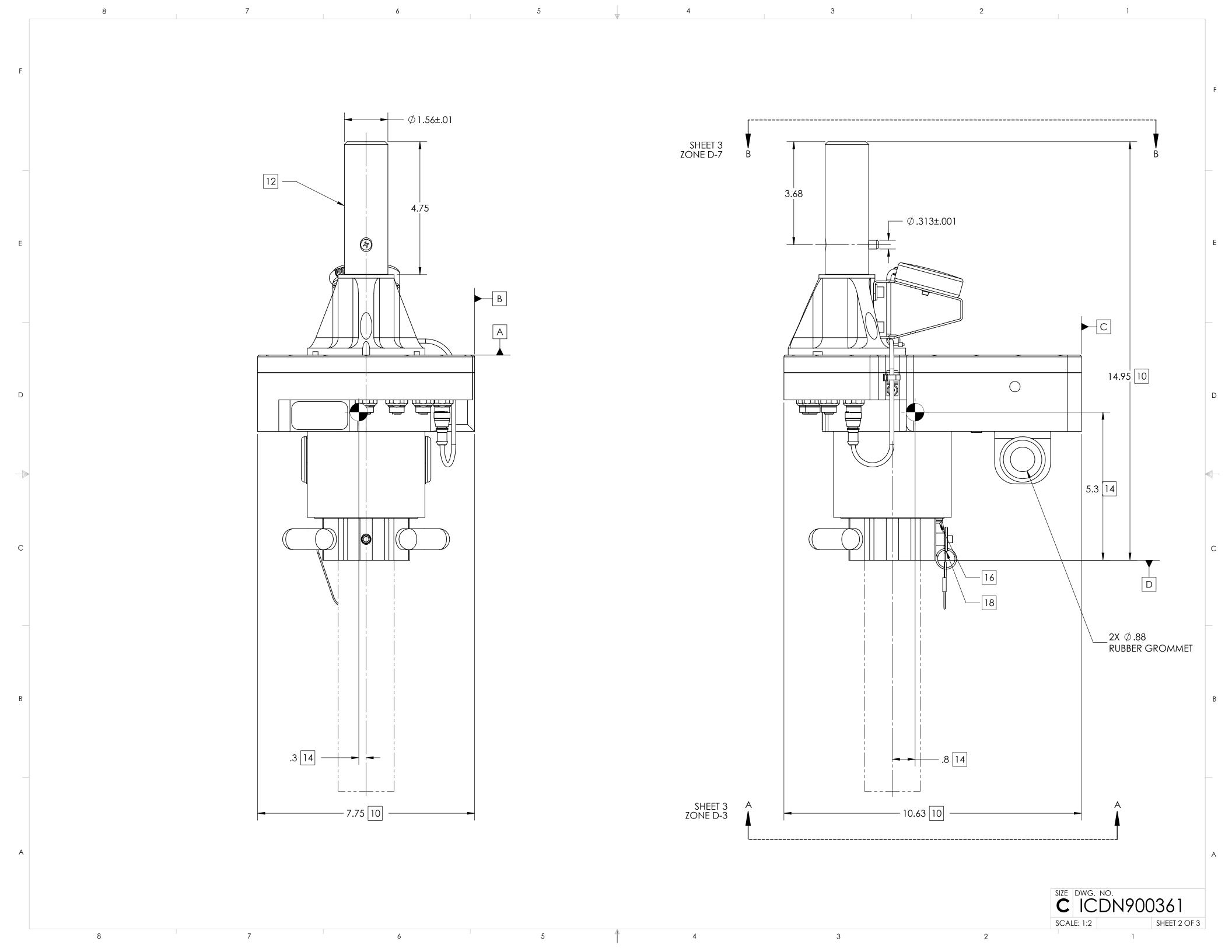
	TECHNICAL SPECIFICATIONS – QLA-360AZR-20			
Power	Power Over Ethernet (POE) 48VDC-56VDC Supply Included			
Material / Finish	Aluminum with stainless steel hardware / Hard coat anodize			
Positioner Travel				
Azimuth	400° (+/-200°)			
Positioner Drive Rate				
Azimuth	Variable, up to 2.2°/sec no load			
Temperature				
Operational	-22 to 140°F (-30 to 60°C)			
Survival	-40 to 158°F (-40 to 70°C)			
Feedback Resolution	0.1°			
Backlash	less than 0.15°			
Torque				
Operational	60 ft-lbs (81.3 Nm)			
Survival	200 ft-lbs (271.2 Nm)			
Payload	90 lbs (40.8 kg)			
Dimensions	Height: 14.95" (37.97 cm), Width: 7.75" (19.69 cm), Depth: 10.63" (27.00 cm)			
Weight	15.6 lbs (7.1 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			

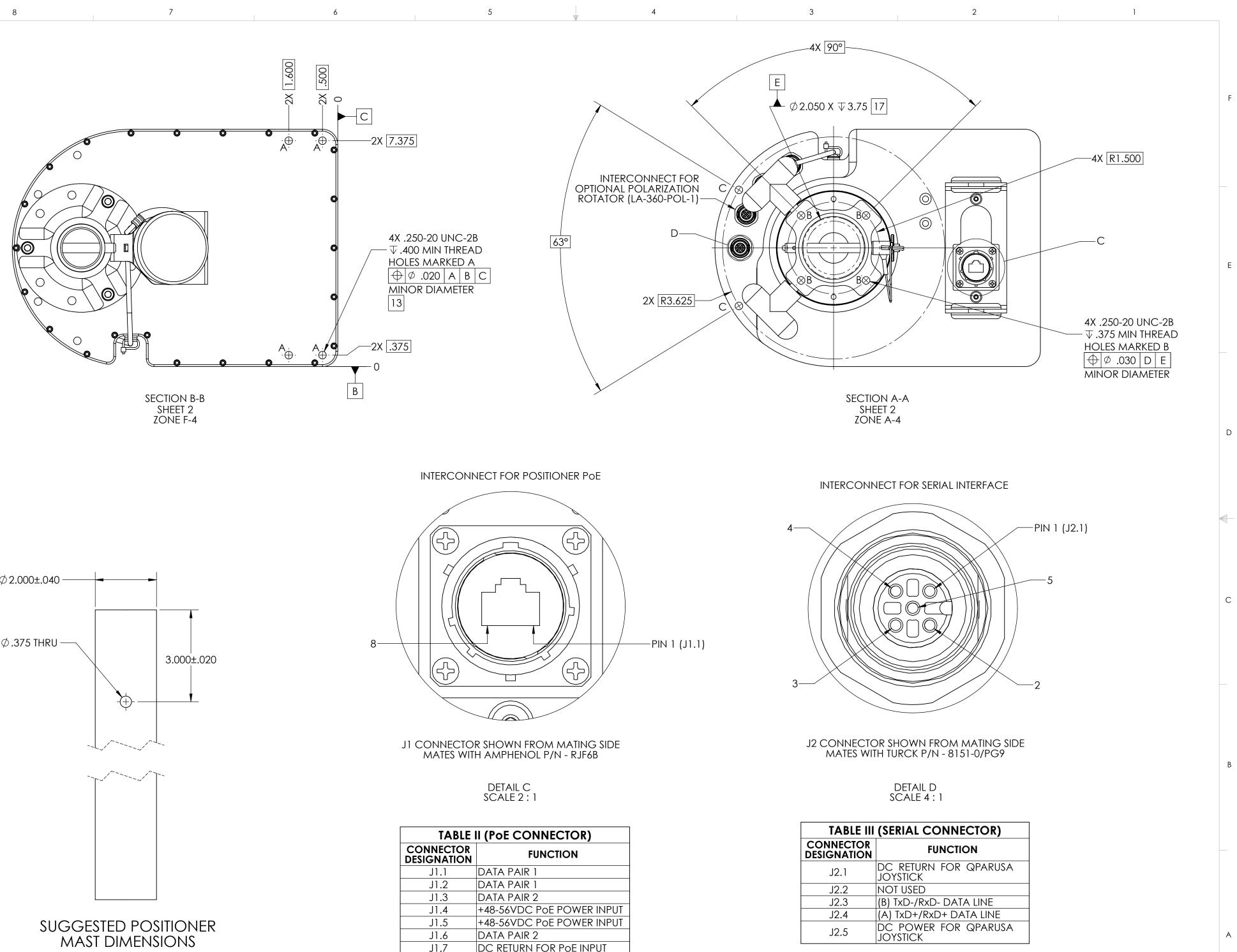
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Specifications subject to change without notice

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	NOTES: UNLESS OTHERWISE SPECIFIED			
	 QLA-360AZR-20 CONFIGURABLE OPTIONS PER TABLE I. PART NUMBER LA-360AZR-20-100 SHOWN THROUGHOUT THIS DRAWING. POE CABLE SHOV SCALE 	VN NOT TO		
F	2. USE INTERFACE CONTROL DRAWING IN CONJUNCTION WITH DATASHEET N	500129		
	3. 48-56VDC POWER SUPPLY INCLUDED WITH POSITIONER. NOT SHOWN IN DR	AWING		
	4. HARD COAT ANODIZE ALUMINUM CONSTRUCTION WITH STAINLESS STEEL H	ARDWARE		
	5. 400° (+/-200°) AZIMUTH TRAVEL WITH 4.5°/SEC DRIVE RATE (NO LOAD)			
	6. NOT USED			
	 -22° TO 140°F (-30° TO 60°C) OPERATIONAL TEMPERATURE RANGE40 TO 1 70°C) NON-OPERATIONAL TEMPERATURE RANGE 	58°F (-40 IO		(
	8. 0.1° FEEDBACK RESOLUTION			
E	9. AZIMUTH BACKLASH LESS THAN 0.15°			
E	10 14.95" (38.0 cm) HIGH X 7.75" (19.7 cm) WIDE X 10.63" (27.0 cm) DEEP			
	11. WEIGHT APPROXIMATELY 15.6 LBS NOT INCLUDING POE CABLE			\bullet
	12 PAYLOAD SHALL NOT EXCEED 90 LBS ON INDICATED MAST			
_	13 RADIO OR AUXILIARY EQUIPMENT MOUNTING FEATURES. 20 LBS MAX			
	14 CENTER OF GRAVITY 0.3" (0.8 cm) IN THE X-DIRECTION, 5.3" (13.5 cm) IN TH DIRECTION AND 0.8" (2.0 cm) IN THE Z-DIRECTION. X & Z MEASURED FROM OF THE 2.00" DIAMETER MOUNTING POLE	IE Y- THE CENTER		
D	15 FOR PERMANENT INSTALLATIONS, IT IS RECOMMENDED THAT THE (2) INDIC/ THREADED KNOBS BE REPLACED WITH (2) 5/16-18 X 1.000" LONG STAINLESS HEAD FASTENERS. HARDWARE PROVIDED WITH UNIT. TORQUE TO 132 IN-LBS	ATED 5/16-18 STEEL HEX		
	16 Positioner is at azimuth pedestal 0° when indicated fastener is at p shown with clamping knobs in the front as shown	OSITION		
	17 POSITIONER CLAMPS TO STANDARD 2" OUTSIDE DIAMETER MAST (NOT INC OPTIONAL MIDMOUNT KIT AVAILABLE TO ADAPT TO MAST DIAMETERS UP TO www.gparusa.com TO LEARN MORE	LUDED).		
	18 5/16" QUICK RELEASE PIN TO SECURE POSITIONER TO MAST AND PREVENT	ROTATION	15 2 PL	
С				
В				
	TABLE I			
	BUILDING A PART NUMBER STANDARD OPTIONS _LA-360AZR - 20 - - 100 < <example< td=""></example<>			
	SHIELDED ETHERNET CABLE STANDARD LENGTHS 050 = 50 ft			
	100 = 100 ft 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 c	onnector		
	CUSTOM CONFIGURATION = Standard options - leave blank			
А	MOTOR DRIVES AND PAYLOAD			
	20 = Az 60 ft-lbs @ 2.2°/s, 90 lb payload MODEL			
	LA-360AZR = LinkAlign-360AZR (+/- 200° azimuth)			







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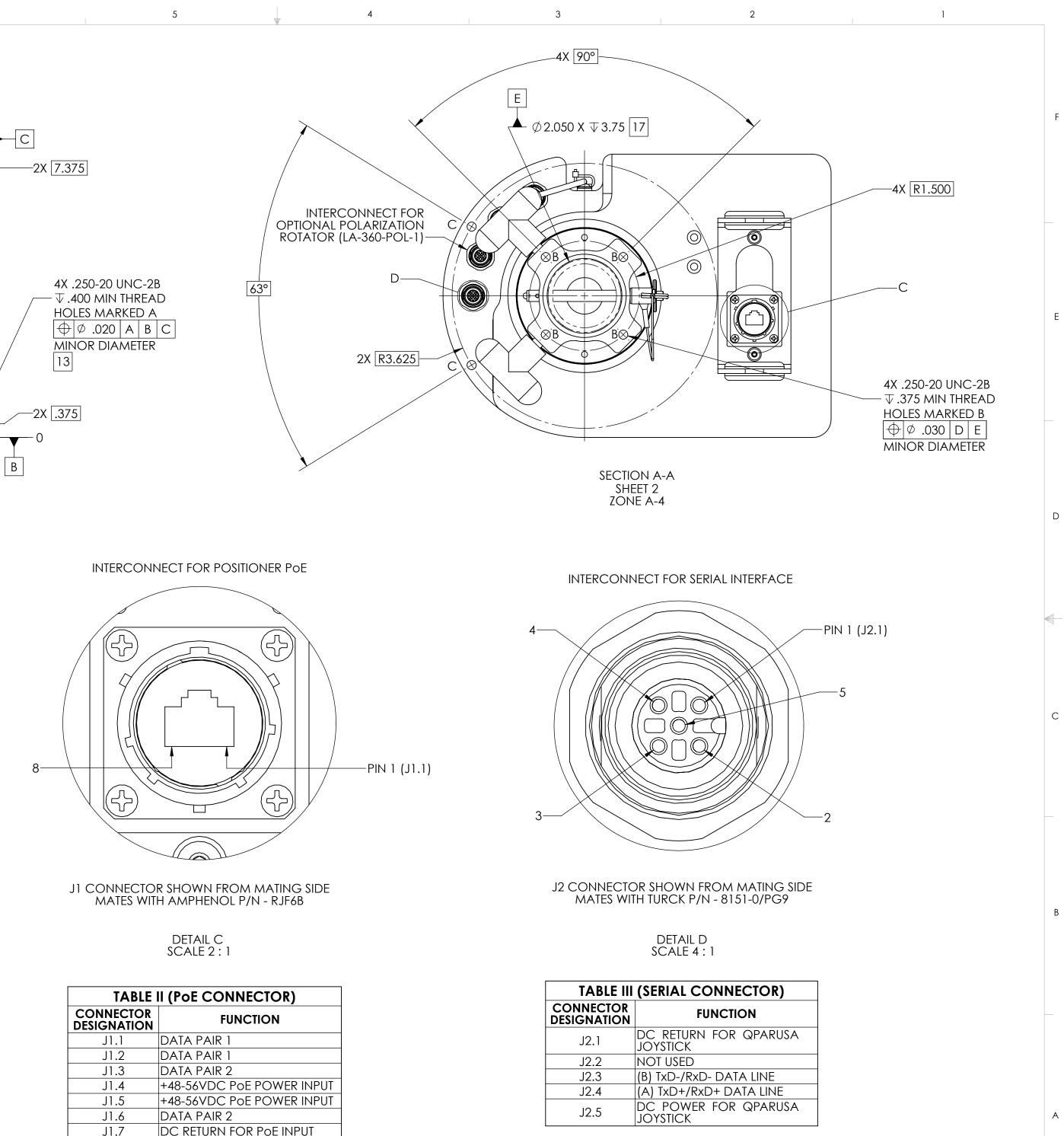
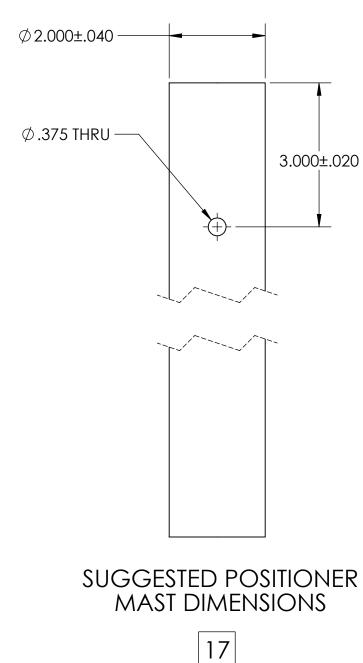




TABLE II (POE CONNECTOR)				
CONNECTOR DESIGNATION	FUNCTION			
J1.1	DATA PAIR 1			
J1.2	DATA PAIR 1			
J1.3	DATA PAIR 2			
J1.4	+48-56VDC POE POWER INPUT			
J1.5	+48-56VDC PoE POWER INPUT			
J1.6	DATA PAIR 2			
J1.7	DC RETURN FOR POE INPUT			
J1.8	DC RETURN FOR POE INPUT			

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SIZE DWG. NO. ICDN900361

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SHEET 3 OF 3

SCALE: 1:2