QLA-360MPT-11



AUTO ACQUISITION ANTENNA POSITIONER FOR MICROWAVE LINE OF SIGHT



The QLA-360MPT-11 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-360MPT-11 is typically paired with ~1 ft antennas, payloads up to 15 lbs (6.8 kg), and offers 360° of azimuth and +/-90° of elevation range. Download the Interface Control Drawing (ICD) for more details.

Optional pole mounts, radio adapter brackets, antenna adapter brackets, polarization rotators, joysticks, and transit cases are also available.

	TECHNICAL SPECIFICATIONS – QLA-360MPT-11			
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	180° (+/-90°)			
Positioner Drive Rate				
Azimuth	Variable, up to 6.5°/sec no load			
Elevation	Variable, up to 6.5°/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 (both axes)	less than 1°			
Torque				
Operational (both axes)	20 ft-lbs (27.1 Nm)			
Survival (both axes)	N/A (Backdrivable)			
Payload	15 lbs (6.8 kg)			
Dimensions	Height: 8.86" (22.5 cm), Width: 9.48" (24.1 cm), Depth: 6.00" (15.2 cm)			
Weight	14.0 lbs (6.4 kg)			
Mounting Interface	Table top mount (See ICD for details)			
Antenna Mount Options	1/4-20 threaded holes or 1/4 fastener clearance holes (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				
1. QLA-360MP	-10 CONFIGURABLE OF	PTIONS PER TABLE I			
2. USE INTERFA IN TABLE II	CE CONTROL DRAWING	G IN CONJUNCTION WITH	DATASHEET AS DENOTED		
3.48 - 56VDC	POWER SUPPLY INCLUD	ED WITH POSITIONER. NOT	SHOWN IN DRAWING		
4. HARD COA		CONSTRUCTION WITH STAIL	VLESS STEEL HARDWARE		
5. 200° (+/-100	°) AZIMUTH TRAVEL WITI	H 2.6°/SEC DRIVE RATE (NO) load)		
6. 180° (+/-90°	ELEVATION TRAVEL WI	TH 2.6°/SEC DRIVE RATE (N	IO LOAD)		
722° TO 140° 70°C) NON-(F (-30° TO 60°C) OPERA DPERATIONAL TEMPERA	TIONAL TEMPERATURE RAI	NGE40 TO 158°F (-40 TO		
8. 0.1° FEEDBA	CK RESOLUTION IN ALL	AXES			
9. AZIMUTH AN	d elevation backlas	5H LESS THAN 1°			Ģ
10 8.86" (22.5 c APPLY WHE	m) HIGH X 9.48" (24.1 c N POSITIONER IS AT 0° A	m) WIDE X 6.00" (15.2 cm): ZIMUTH AND 0° ELEVATION	DEEP. DIMENSIONS NANGLES		
11. WEIGHT AP	PROXIMATELY 14.0 LBS ((6.4 kg) NOT INCLUDING P	oE CABLE		L A
12. PAYLOAD AXIS. TO CA GRAVITY TO	SHALL NOT EXCEED 15 L LCULATE TORQUE, TAK DATUM -C- IN FEFT AN	BS OR 8 FT-LBS OF TORQUE E THE DISTANCE FROM THE D MULTIPLY BY THE PAYLO	E ABOUT THE ELEVATION PAYLOAD CENTER OF AD WEIGHT		Y
	AUXILIARY MOUNTING F				
AND 4.2" (1	GRAVITY 0.5" (1.3 cm) 0.7 cm) IN THE Z-DIRECT	IN THE X-DIRECTION, 0'' (0 a TION	CM) IN THE Y-DIRECTION		
		TABLE I			
BUILDING		STANDARD OPTIONS			
LA-360MPT		<			
		LDED ETHERNET CABLE STANDARD 050 = 50 ft 100 = 100 ft			
		150 = 150 ft 150 = 150 ft 200 = 200 ft			
		250 = 250 ft 300 = 300 ft			
		XXX = Custom length in feet XXC = Add "C" to end of cable length fo	or unterminated mating connector		
	CUSI	TOM CONFIGURATION = Standard options - leave blank			

MOTOR DRIVES AND PAYLOAD

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MODEL

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paired with ~1 ft antenna

paired with ~1 ft antenna

LA-360MPT = LinkAlign-360MPT (+/-200° azimuth, +/-90° elevation)

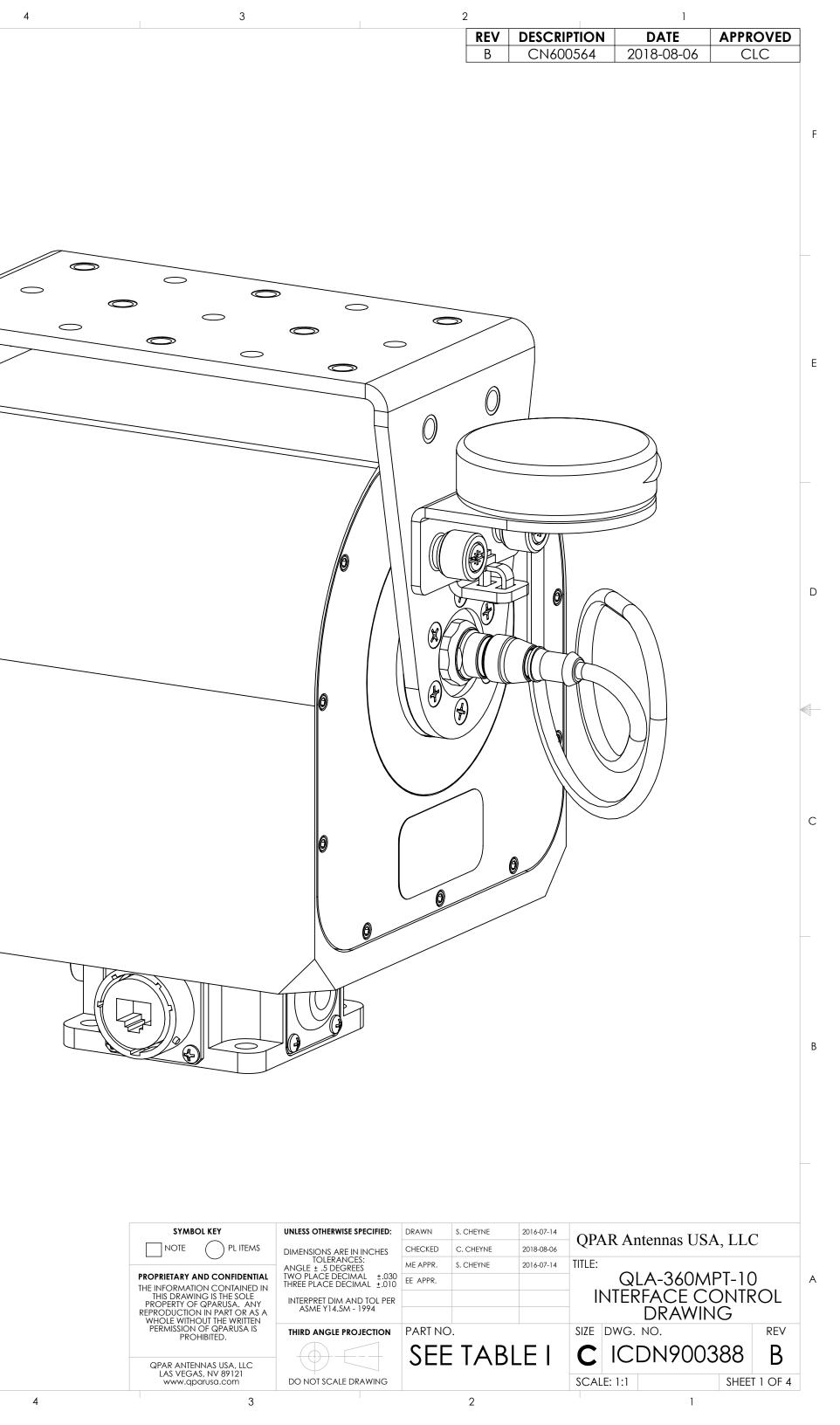
10 = Az 8 ft-lbs @ 2.6°/s, El 8 ft-lbs @ 2.6°/s, 15 lb payload. Typically

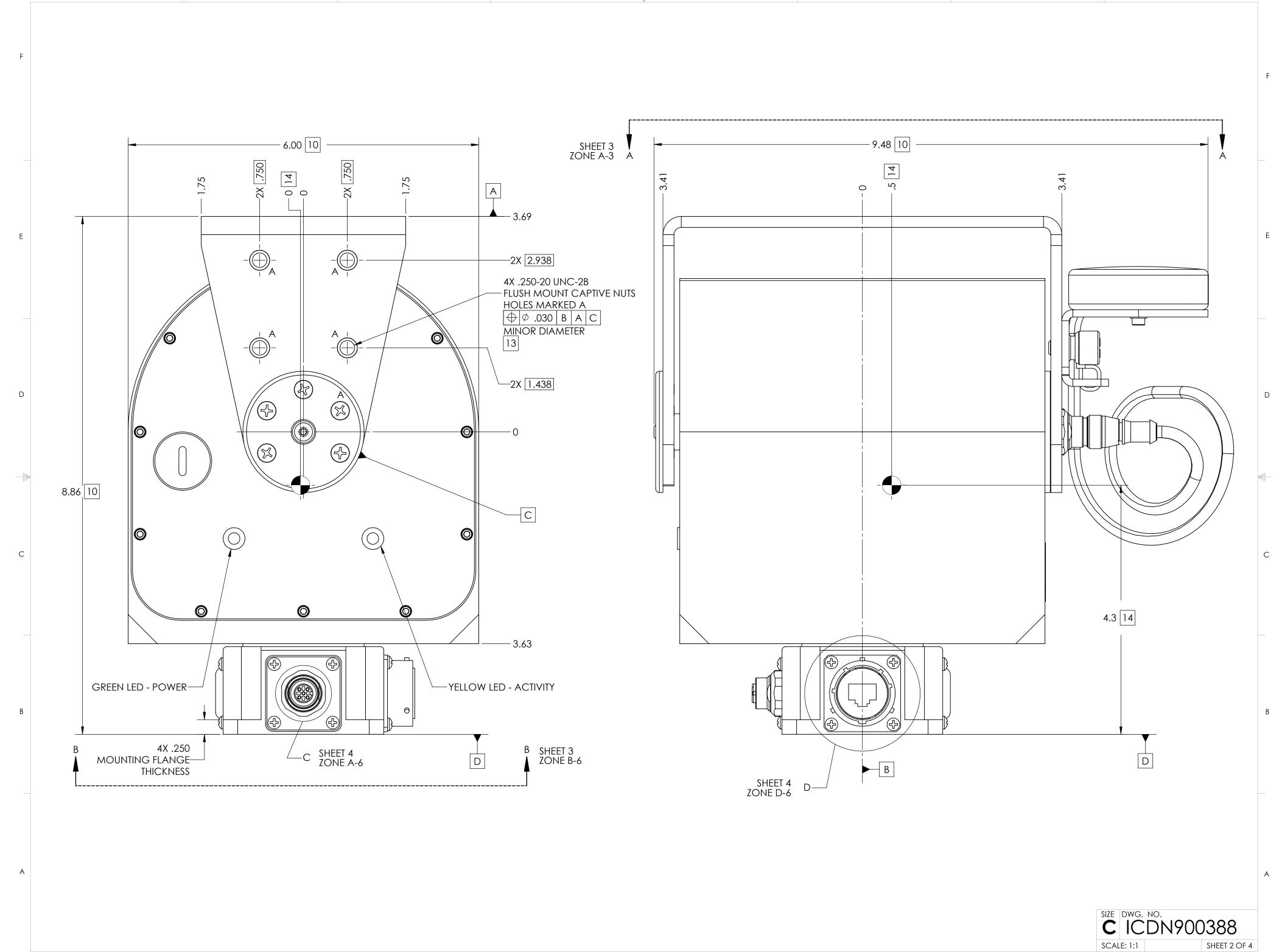
11 = Az 20 ft-lbs @ 6.5°/s, El 20 ft-lbs @ 6.5°/s, 15 lb payload. Typically

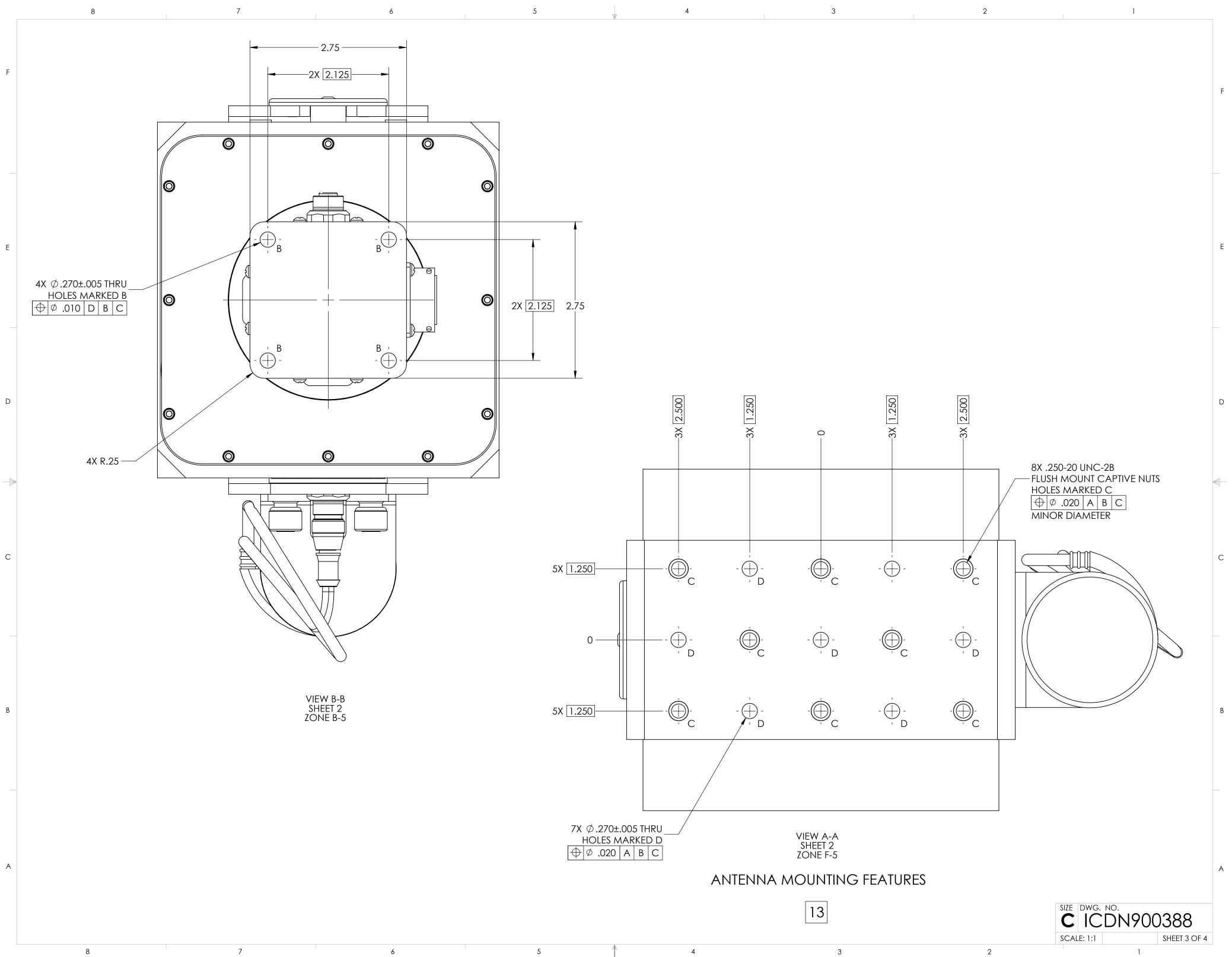
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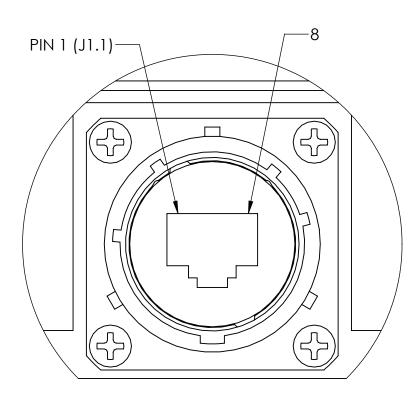
TABLE IIPART NUMBERDATASHEET NUMBERLA-360MPT-10N500132LA-360MPT-11N500147

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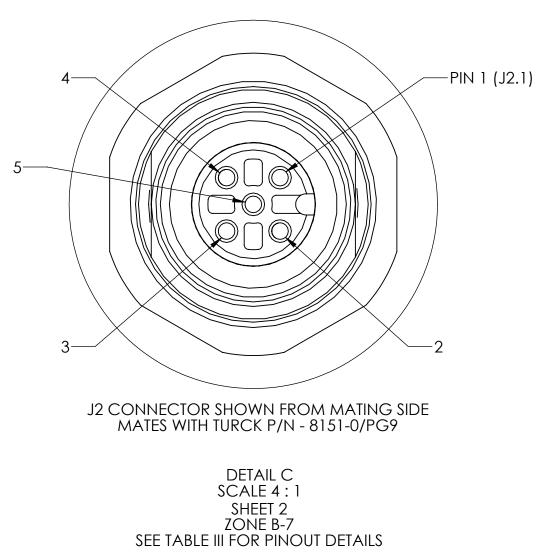
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J1 CONNECTOR SHOWN FROM MATING SIDE MATES WITH AMPHENOL P/N - RJF6B

DETAIL D SCALE 2 : 1 SHEET 2 ZONE B-3 SEE TABLE II FOR PINOUT DETAILS



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TABLE III (SERIAL CONNECTOR)				
CONNECTOR DESIGNATION	FUNCTION			
J2.1	dc return for qparusa Joystick			
J2.2	NOT USED			
J2.3	(B) TxD-/RxD- DATA LINE			
J2.4	(A) TxD+/RxD+ DATA LINE			
J2.5	dc power for qparusa Joystick			

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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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