## **QLA-60EBP-30**







The QLA-60EBP-30 is a Power Over Ethernet (PoE) antenna positioner designed from the ground up to point and automatically peak directional side arm mount antennas for millimeter wave links up to 90GHz.

Millimeter ware radios specifically in the 60GHz to 80GHz range have very narrow beam widths which require very precise pointing and stable masts to maintain a link. Often these links come out of alignment or become less optimized due to thermal expansion of the tower, wind events, or other environmental conditions. The QLA-60EBP-30 corrects for these disturbances to maintain the highest Quality of Service available without the down time and reoccurring cost due to manual realignment.

Once aligned, our software will maintain your link automatically based on an RSSI threshold setting or can be manually peaked on demand from anywhere on your network.

The QLA-60EBP-30 is typically paired with 3 to 4 foot side arm mount antennas, payloads up to 300 lbs (136.07 kg), and offers +/-30° of azimuth and elevation range.

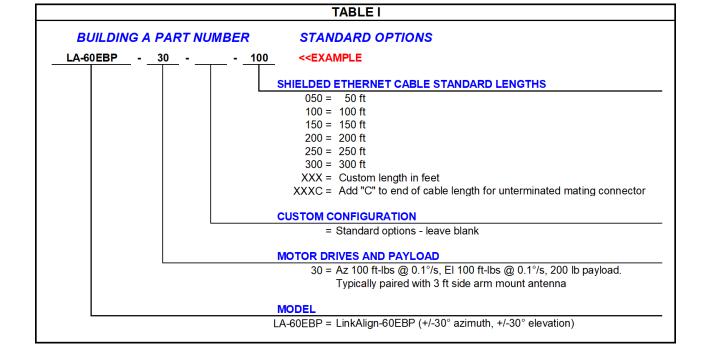
	TECHNICAL SPECIFICATIONS – QLA-60EBP-30
Power	Power Over Ethernet (POE) 48VDC-56VDC Supply Included
Material / Finish	Aluminum with stainless steel hardware / Hard coat anodize
Positioner Travel	
Azimuth	60° (+/-30°)
Elevation	60° (+/-30°)
Positioner Drive Rate	
Azimuth	Variable, up to 0.47°/sec no load
Elevation	Variable, up to 0.47°/sec no load
Temperature	
Operational	-22 to 140°F (-30 to 60°C)
Survival	-40 to 158°F (-40 to 70°C)
Feedback Resolution	0.01°
Backlash (Az / El)	less than 0.03° in both axes
Torque	
Operational (both axes)	150 ft-lbs (203.3 Nm)
Survival (both axes)	1500 ft-lbs (2033.7 Nm)
Payload	300 lbs (136.07 kg)
Dimensions	Height: 20.58" (52.3 cm), Width: 13.85" (35.2 cm), Depth*: 16.69" (42.4 cm)
Weight	100 lbs (45.4 kg)
Mounting Interface	Mounts to masts O.D. ranging from 3 - 4.5"
Antenna Mount Options	Qty six 5/8-11 threaded holes for side arm mount antennas (See ICD for details)
Communication Interface	
User Interfaces	Web based hosted internal to unit, Pelco D
Ethernet	10/100 Ethernet
Serial	RS-485
	* Depth measured from center of a 4.5 in O.D. mast

REV A

Specifications subject to change without notice

## NOTES: UNLESS OTHERWISE SPECIFIED

- 1. QLA-60EBP-30 CONFIGURABLE OPTIONS PER TABLE I. PART NUMBER LA-60EBP-30-100 SHOWN THROUGHOUT THIS DRAWING. POE CABLE SHOWN IS NOT SHOWN
- 2. USE INTERFACE CONTROL DRAWING IN CONJUNCTION WITH DATASHEET N500145
- 3. 48 56VDC POWER SUPPLY INCLUDED WITH POSITIONER. NOT SHOWN IN DRAWING
- 4. HARD COAT ANODIZE ALUMINUM CONSTRUCTION WITH STAINLESS STEEL HARDWARE
- 5. 60° (+/-30°) AZIMUTH TRAVEL WITH 0.47°/SEC DRIVE RATE (NO LOAD)
- 60° (+/-30°) ELEVATION TRAVEL WITH 0.47°/SEC DRIVE RATE (NO LOAD). POSITIONER CAN BE MOUNTED ON EITHER SIDE OF THE MAST. SOFTWARE FEATURES ALLOW FOR THE ELEVATION DIRECTION TO BE REVERSED
- 7. -22° TO 140°F (-30° TO 60°C) OPERATIONAL TEMPERATURE RANGE. -40 TO 158°F (-40 TO 70°C) NON-OPERATIONAL TEMPERATURE RANGE
- 8. 0.01° FEEDBACK RESOLUTION IN BOTH AXES
- 9. AZIMUTH AND ELEVATION BACKLASH LESS THAN 0.03°
- ENVELOPE DIMENSIONS WHEN MOUNTED TO A 4.5" O.D. MAST ARE 20.58" (52.3 cm) HIGH X 13.85" (35.2 cm) WIDE X 16.69" (42.4 cm) DEEP. DIMENSIONS APPLY WHEN POSITIONER IS AT 0° AZIMUTH AND 0° ELEVATION ANGLES
- 11. WEIGHT APPROXIMATELY 100.0 LBS (45.4 kg) NOT INCLUDING POE CABLE
- CENTER OF GRAVITY 7.1" (18.0 cm) IN THE X-DIRECTION, 0.1" (0.3 cm) IN THE Y-DIRECTION AND 0.6" (1.5 cm) IN THE Z-DIRECTION FROM THE CORRESPONDING DATUM A, B, OR C
- POSITIONER CLAMPS TO 3" 4.5" OUTSIDE DIAMETER MAST (NOT INCLUDED). 4.5" O.D. MAST SHOWN THOUGHOUT THIS DRAWING
- TORQUE THE INDICATED POSITIONER CLAMP FASTENERS (1/2-13 X 5.0" LONG STAINLESS STEEL HEX HEAD SCREWS) TO 45 FT-LBS
- 15. PAYLOAD SHALL NOT EXCEED 300 LBS OR 150 FT-LBS OF OPERATIONAL TORQUE ABOUT THE AZIMUTH OR ELEVATION AXIS NOTED BY DATUM C AND B RESPECTIVELY
- 16. NON-OPERATIONAL WIND LOADING TORQUE SHALL NOT EXCEED 1500 FT-LBS ON THE AZIMUTH OR ELEVATION AXIS NOTED BY DATUM C AND B RESPECTIVELY
- ANTENNA MOUNTING PLATE VARIES TO SUPPORT ANTENNA PAYLOADS LISTED IN TABLE I. CUSTOM CONFIGURATIONS ARE ALSO AVAILABLE UPON REQUEST
- TORQUE ANTENNA MOUNTING HARDWARE (5/8-11 X 1.5" LONG STAINLESS STEEL HEX HEAD SCREWS) TO 150 FT-LB



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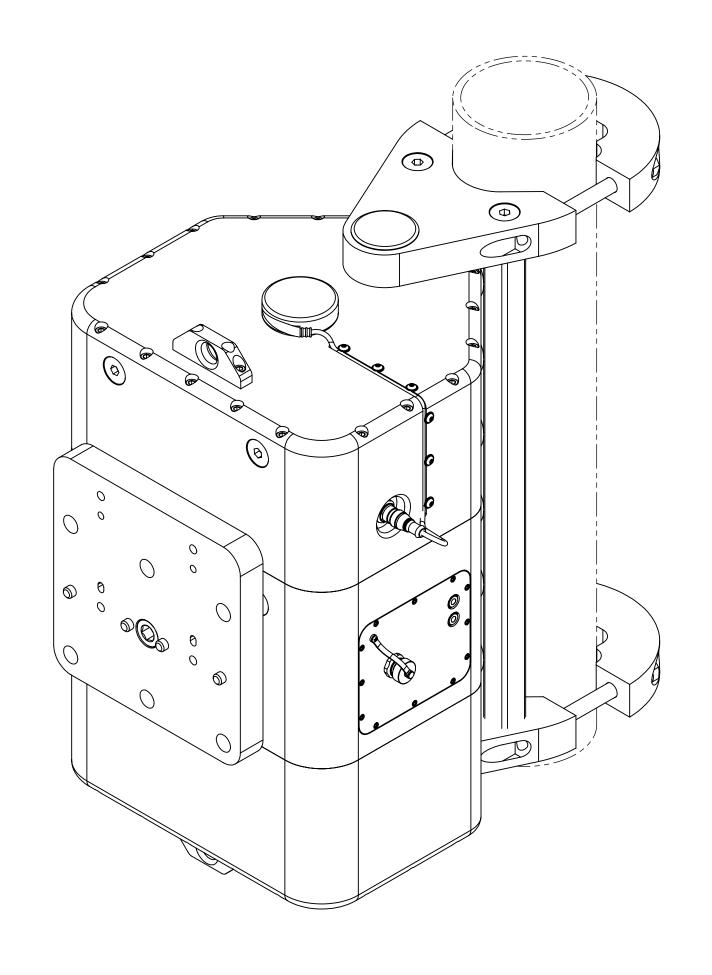
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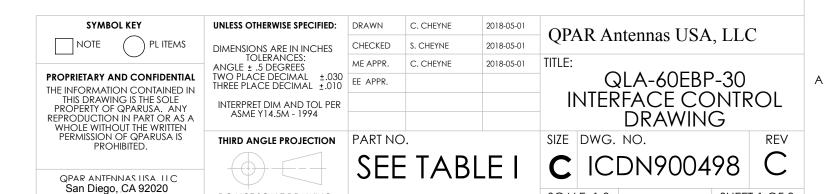
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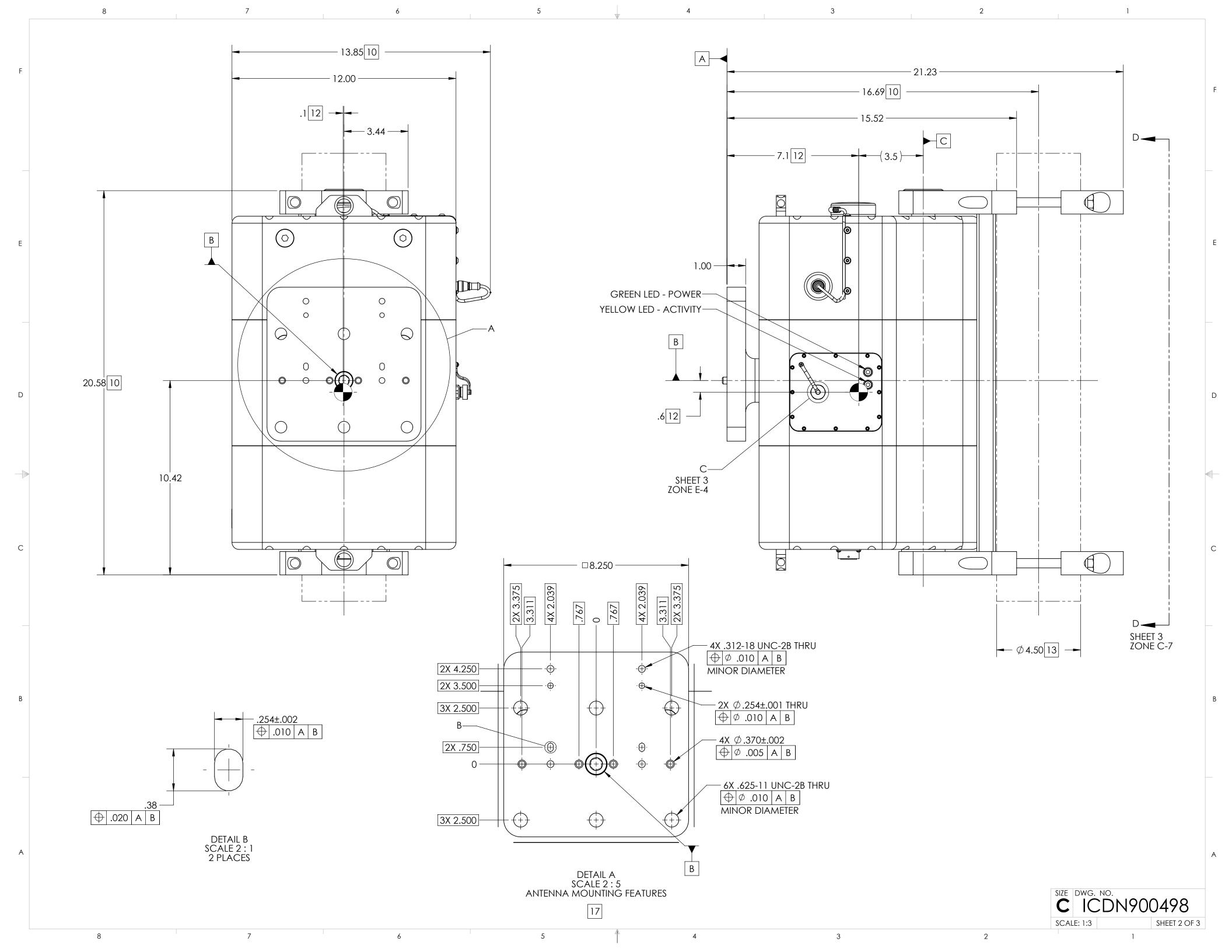


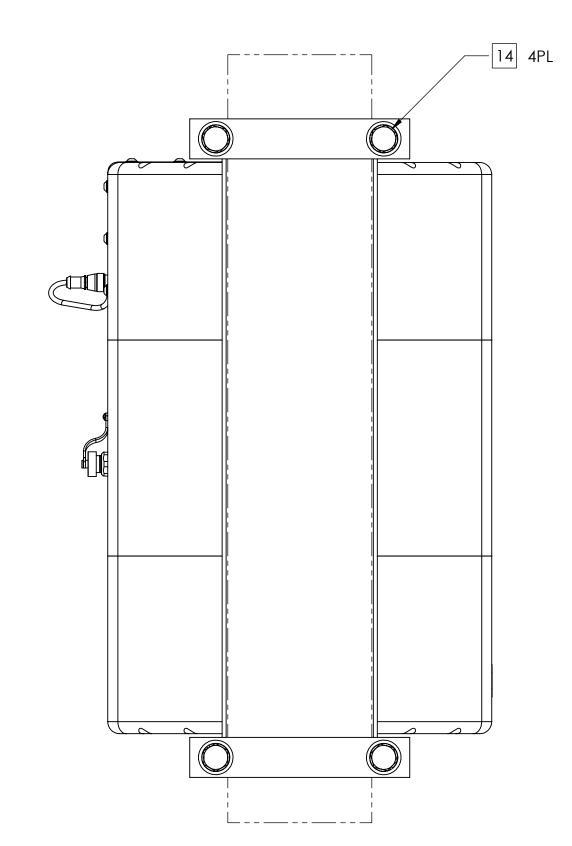
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DO NOT SCALE DRAWING

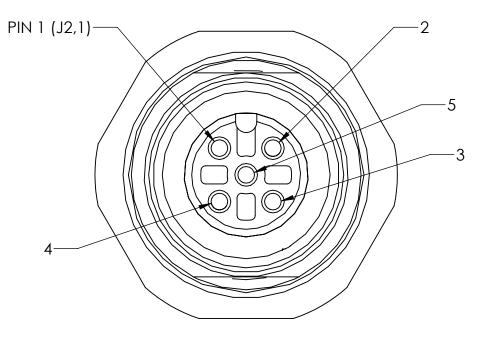
SCALE: 1:3

SHEET 1 OF 3









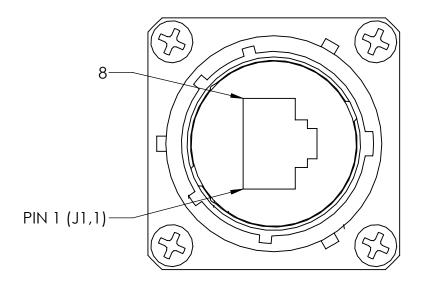
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## INTERCONNECT FOR SERIAL/OPTIONAL PELCO-D JOYSTICK INTERFACE

J2 CONNECTOR SHOWN FROM MATING SIDE MATES WITH TURCK P/N 8151-0/PG9 CONNECTOR DUST CAP NOT SHOWN

DETAIL C SCALE 4 : 1 SHEET 2 ZONE C-4 SEE TABLE III FOR PINOUT DETAILS SCALE 4 : 1

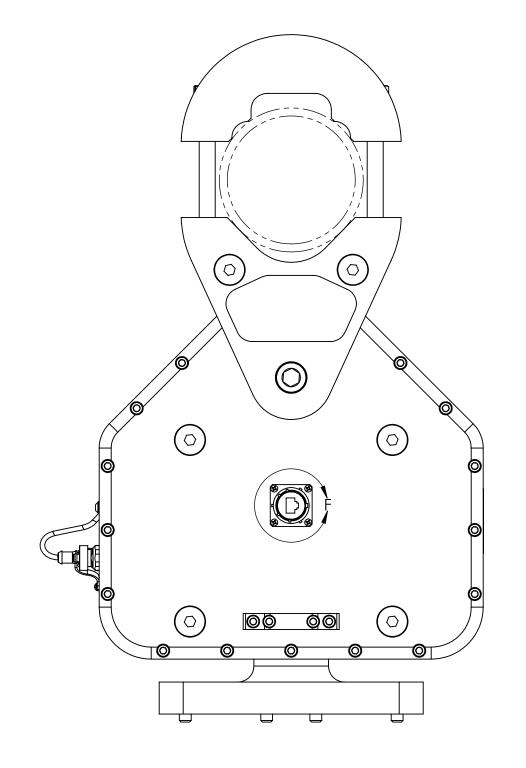
TABLE III (SERIAL CONNECTOR)		
CONNECTOR DESIGNATION	FUNCTION	
J2.1	DC RETURN FOR QPARUSA JOYSTICK	
J2.2	NOT USED	
J2.3	(B) TxD-/RxD- DATA LINE	
J2.4	(A) TxD+/RxD+ DATA LINE	
J2.5	DC POWER FOR QPARUSA JOYSTICK	



## INTERCONNECT FOR POSITIONER POE

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

DETAIL F SCALE 2 : 1 SEE TABLE II FOR PINOUT DETAILS



2

3

VIEW E-E

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	

SIZE DWG. NO. ICDN900498 SCALE: 1:3 SHEET 3 OF 3

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