

REV	DESCRIPTION	DATE	APPROVED
G	CN600564	2018-08-02	CLC

NOTES: UNLESS OTHERWISE SPECIFIED

- QPAR LINKALIGN-360FER-10 CONFIGURABLE OPTIONS PER TABLE I. PART NUMBER QLA-360FER-10-100 SHOWN THROUGHOUT THIS DRAWING. PoE CABLE SHOWN NOT TO SCALE
- USE INTERFACE CONTROL DRAWING IN CONJUNCTION WITH DATASHEET N500119
- 48 - 56VDC POWER SUPPLY INCLUDED WITH POSITIONER. NOT SHOWN IN DRAWING
- HARD COAT ANODIZE ALUMINUM CONSTRUCTION WITH STAINLESS STEEL HARDWARE
- 400° (+/-200°) AZIMUTH TRAVEL WITH 4.5°/SEC DRIVE RATE (NO LOAD)
- 140° (+120°/-20°) ELEVATION TRAVEL WITH 4.5°/SEC DRIVE RATE (NO LOAD)
- 22° TO 140°F (-30° TO 60°C) OPERATIONAL TEMPERATURE RANGE. -40 TO 158°F (-40 TO 70°C) NON-OPERATIONAL TEMPERATURE RANGE
- 0.1° FEEDBACK RESOLUTION IN ALL AXES
- AZIMUTH AND ELEVATION BACKLASH LESS THAN 0.25°
- 13.08" (33.2 cm) HIGH X 8.59" (21.8 cm) WIDE X 12.38" (31.4 cm) DEEP. DIMENSIONS APPLY WHEN POSITIONER IS AT 0° AZIMUTH AND 0° ELEVATION ANGLES
- WEIGHT APPROXIMATELY 21.0 LBS (9.5 kg) NOT INCLUDING PoE CABLE
- PAYLOAD SHALL NOT EXCEED 45 LBS OR 20 FT-LBS OF TORQUE ABOUT THE ELEVATION 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
- RADIO OR AUXILIARY MOUNTING HOLES (BOTH SIDES), 30 LBS MAX. IF MOUNTED TO THE ELEVATION BRACKET, TOTAL PAYLOAD (INCLUDING ANTENNA) MUST NOT EXCEED 20 FT-LBS
- CENTER OF GRAVITY 0.2" (0.51 cm) IN THE X-DIRECTION, 6.5" (16.5 cm) IN THE Y-DIRECTION AND 0.5" (1.3 cm) IN THE Z-DIRECTION. X & Z MEASURED FROM THE CENTER OF THE 2.00" DIAMETER MOUNTING POLE
- FOR PERMANENT INSTALLATIONS, IT IS RECOMMENDED THAT THE (2) INDICATED 5/16-18 THREADED KNOBS BE REPLACED WITH (2) 5/16-18 X 1.000" LONG STAINLESS STEEL HEX HEAD FASTENERS. HARDWARE PROVIDED WITH UNIT. TORQUE TO 132 IN-LBS
- POSITIONER IS AT AZIMUTH PEDESTAL 0° WHEN INDICATED FASTENER IS AT POSITION SHOWN WITH CLAMPING KNOBS IN THE BACK AS SHOWN
- POSITIONER CLAMPS TO STANDARD 2" OUTSIDE DIAMETER MAST (NOT INCLUDED). OPTIONAL MIDMOUNT KIT AVAILABLE TO ADAPT TO MAST DIAMETERS UP TO 6". GO TO www.qparusa.com TO LEARN MORE
- 5/16" QUICK RELEASE PIN TO SECURE POSITIONER TO MAST AND PREVENT ROTATION

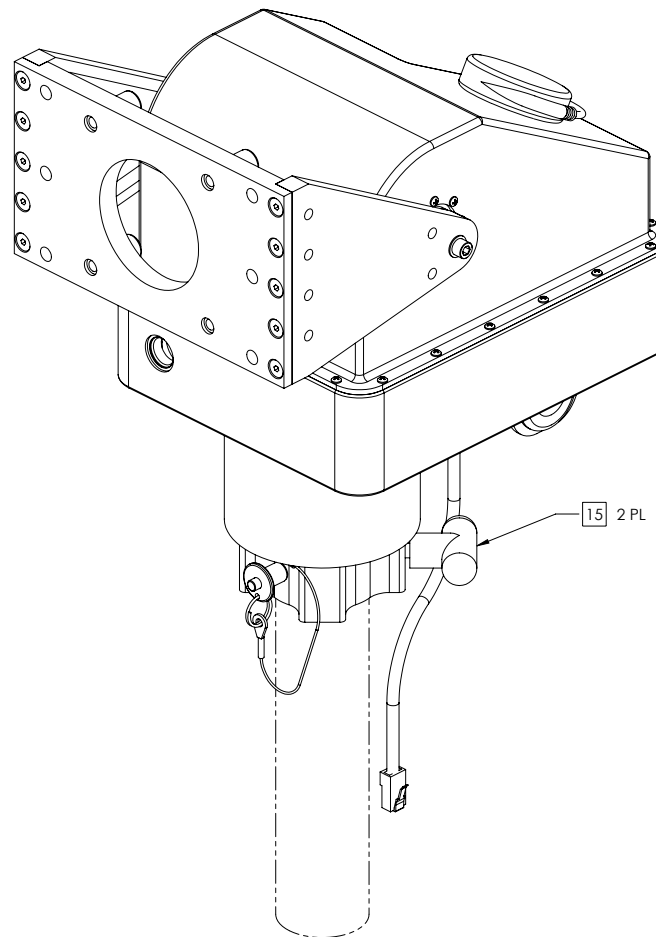
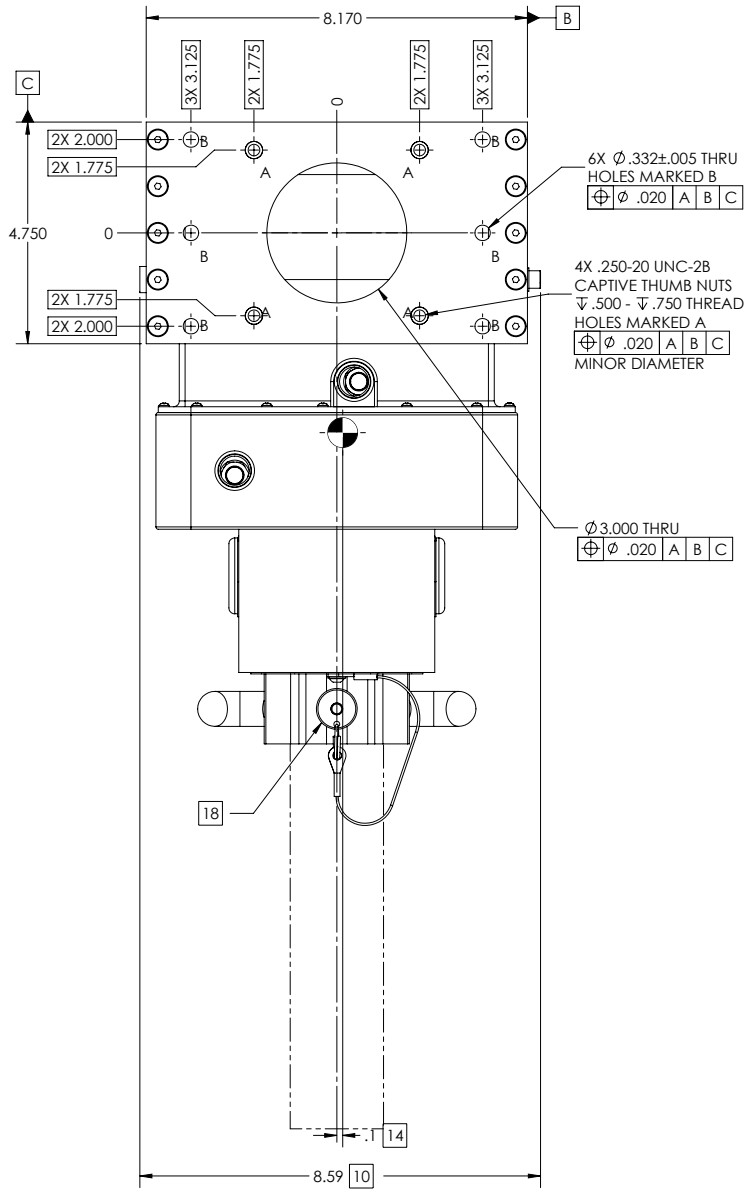


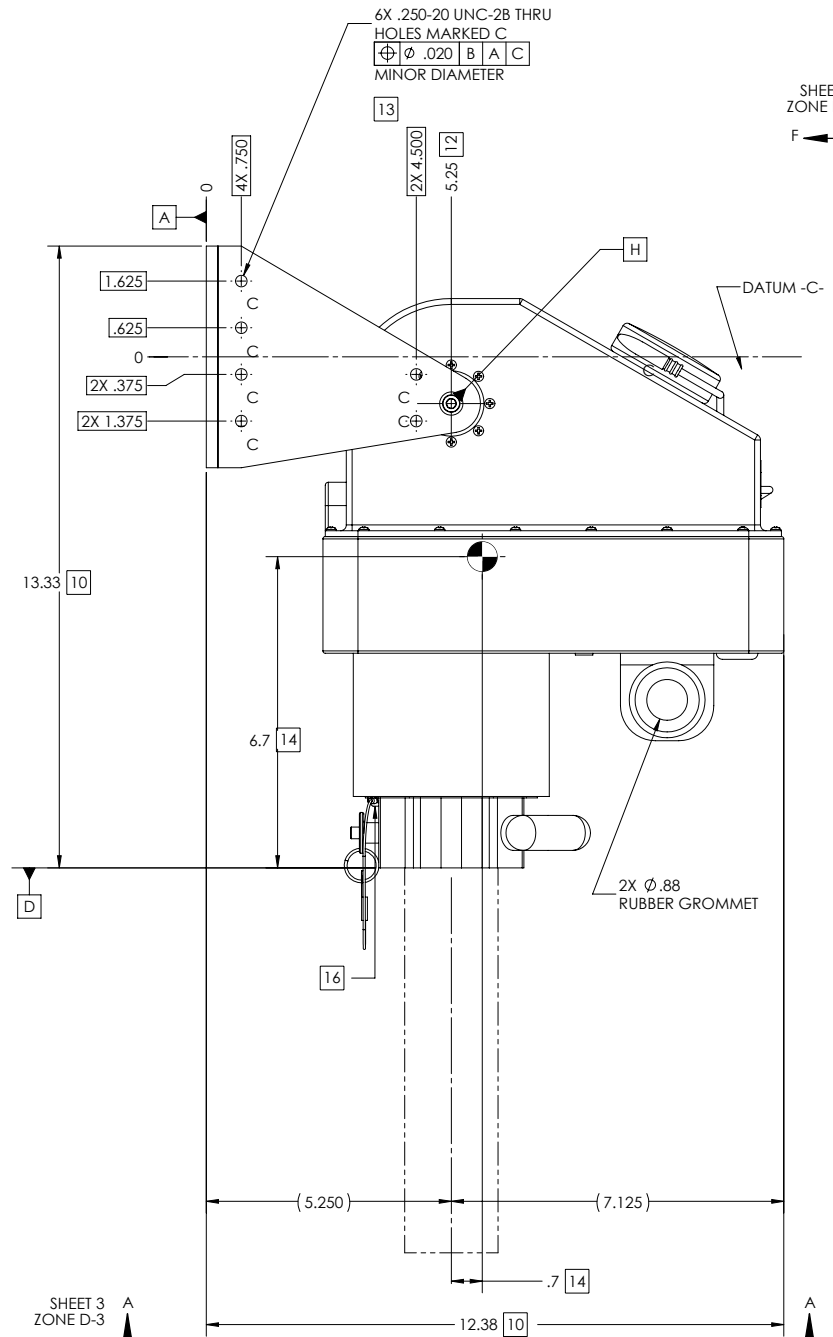
TABLE I	
BUILDING A PART NUMBER	STANDARD OPTIONS
LA-360FER - 10 - - 100	<<EXAMPLE
	SHIELDED ETHERNET CABLE STANDARD LENGTHS
	050 = 50 ft
	100 = 100 ft
	150 = 150 ft
	200 = 200 ft
	250 = 250 ft
	300 = 300 ft
	XXX = Custom length in feet
	XXXX = Add "C" to end of cable length for unterminated mating connector
	CUSTOM CONFIGURATION
	= Standard options - leave blank
	MOTOR DRIVES AND PAYLOAD
	10 = Az 20 ft-lbs @ 4.5°/s, El 20 ft-lbs @ 4.5°/s, 45 lb payload. Typically paired with 1-2 ft antenna
	MODEL
	LA-360FER = LinkAlign-360FER (+/-200° azimuth, +120/-20° elevation)

SYMBOL KEY <input type="checkbox"/> NOTE <input type="checkbox"/> PL ITEMS PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF QPARUSA. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF QPAR ANTENNAS USA IS PROHIBITED. QPAR ANTENNAS USA, LLC San Diego, CA 92020 www.qparusa.com	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ANGLE ± .5 DEGREES TWO PLACE DECIMAL ± .030 THREE PLACE DECIMAL ± .010 INTERPRET DIM AND TOL PER ASME Y14.5M - 1994	DRAWN S. CHEYNE 2015-03-24 CHECKED C. CHEYNE 2018-08-02 ME APPR. S. CHEYNE 2015-03-24 EE APPR.	QPAR ANTENNAS USA, LLC TITLE: Q-PAR LINKALIGN-360FER-10 INTERFACE CONTROL DRAWING	
	THIRD ANGLE PROJECTION 	PART NO. SEE TABLE I	SIZE ICG. NO. C	REV G
	SCALE: 1:2		SHEET 1 OF 4	
	DO NOT SCALE DRAWING			



ANTENNA MOUNTING FEATURES

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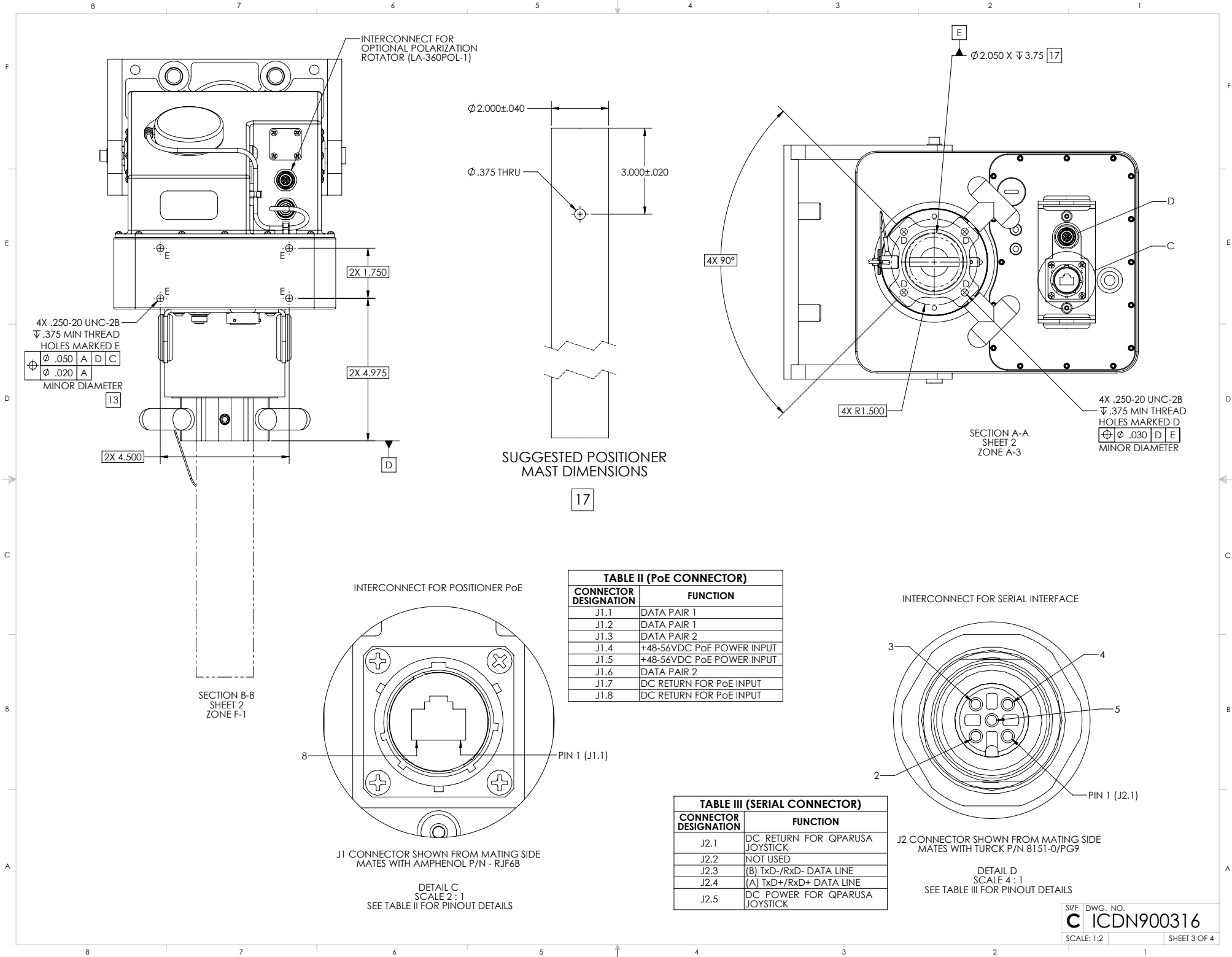


RADIO OR AUXILIARY EQUIPMENT MOUNTING FEATURES

13

SHEET 3
ZONE B-7

SHEET 3
ZONE D-3

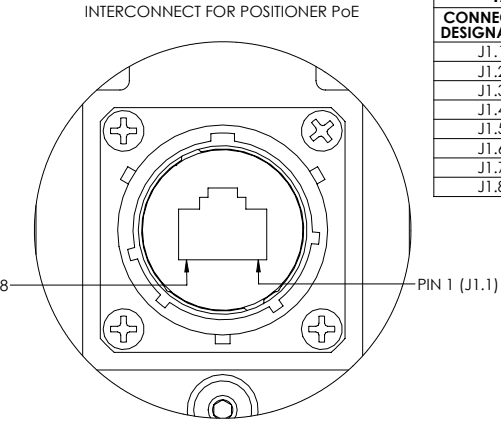


SUGGESTED POSITIONER MAST DIMENSIONS

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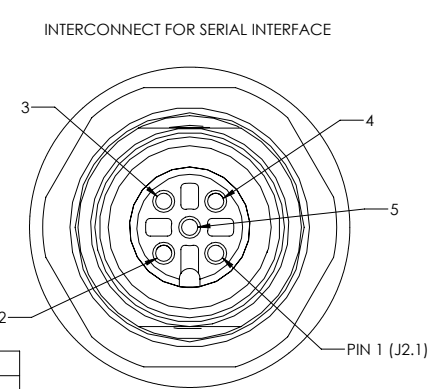
TABLE II (PoE CONNECTOR)

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



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

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

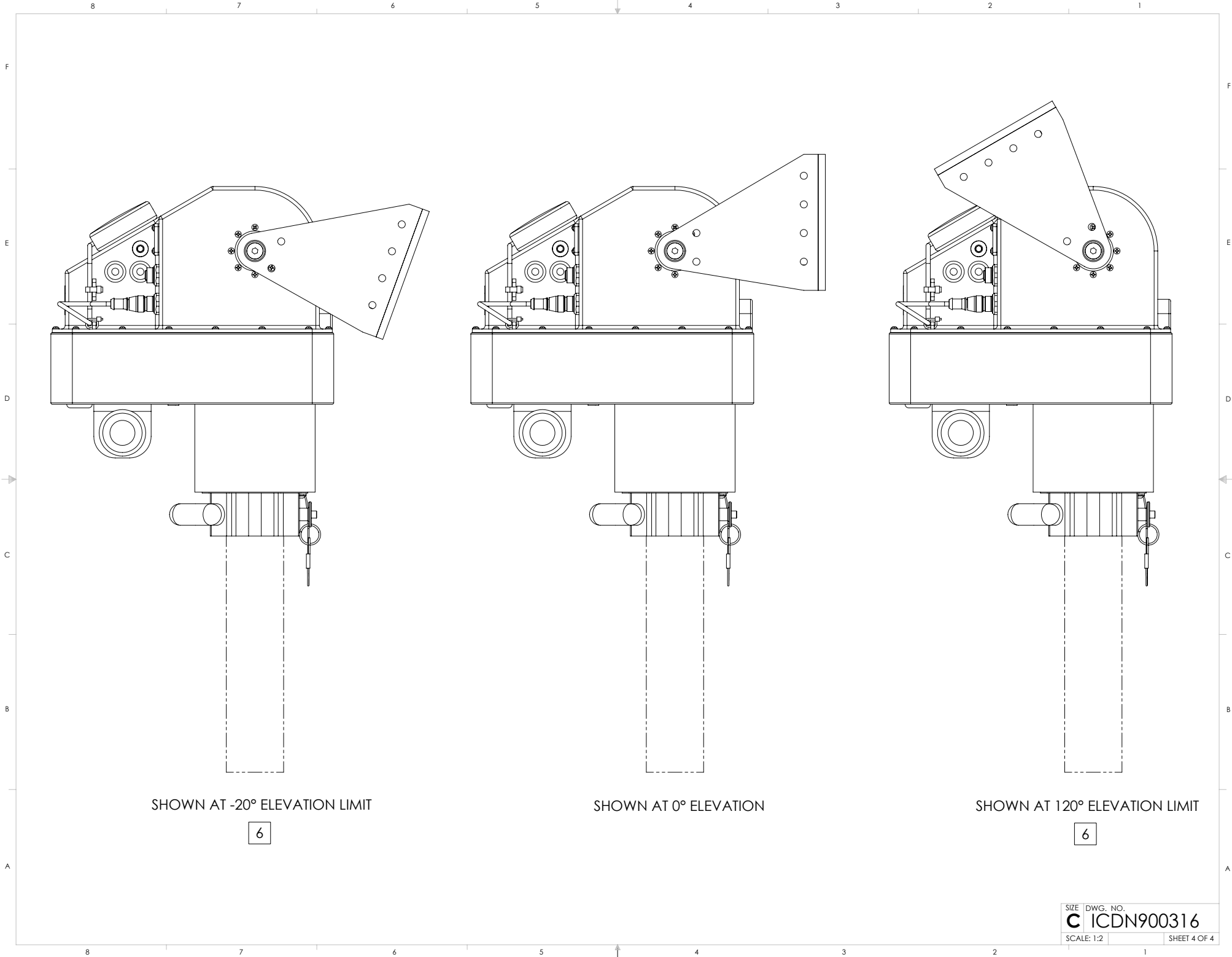


J2 CONNECTOR SHOWN FROM MATING SIDE
MATES WITH TURCK P/N 8151-0/PG9

DETAIL D
SCALE 4 : 1
SEE TABLE III FOR PINOUT DETAILS

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



SHOWN AT -20° ELEVATION LIMIT

6

SHOWN AT 0° ELEVATION

6

SHOWN AT 120° ELEVATION LIMIT