

REV	DESCRIPTION	DATE	APPROVED
D	CN601008	2021-10-07	CLC

NOTES: UNLESS OTHERWISE SPECIFIED

- LINKALIGN-360MPT-11 CONFIGURABLE OPTIONS PER TABLE I
- USE INTERFACE CONTROL DRAWING IN CONJUNCTION WITH DATASHEET N500147
- SEE TABLE II FOR AVAILABLE LINKALIGN-360MPT-11 ACCESSORY OPTIONS
- POSITIONER POWERED BY POWER OVER ETHERNET 50-57 VDC, 4 PAIR, PoE (INDOOR RATED 50 VDC POWER SUPPLY INCLUDED WITH POSITIONER, NOT SHOWN IN DRAWING.) OPTIONAL DC POWER INPUT MAY BE USED AS ALTERNATE CUSTOM CONFIGURATION, 20-60V. STANDBY POWER DRAWS LESS THAN 10 W. MAXIMUM POWER DRAW, 60 W
- EXTERNAL CONSTRUCTION COMPRISED OF HARD COAT ANODIZE ALUMINUM WITH STAINLESS STEEL HARDWARE
- 200° (+/-100°) AZIMUTH TRAVEL WITH 14°/SEC DRIVE RATE (MAX LOAD)
- 180° (+/-90°) ELEVATION TRAVEL WITH 14°/SEC DRIVE RATE (MAX LOAD)
- 18° TO 140°F (-28° TO 60°C) OPERATIONAL TEMPERATURE RANGE. -40 TO 158°F (-40 TO 70°C) NON-OPERATIONAL TEMPERATURE RANGE. MINIMUM TEMPERATURE SPECIFIED AT NO LOAD
- 0.1° FEEDBACK RESOLUTION IN ALL AXES
- AZIMUTH AND ELEVATION BACKLASH LESS THAN 1°
- 8.86" (22.5 cm) HIGH X 9.20" (23.4 cm) WIDE X 6.00" (15.2 cm) DEEP. DIMENSIONS APPLY WHEN POSITIONER IS AT 0° AZIMUTH AND 0° ELEVATION ANGLES
- WEIGHT APPROXIMATELY 14 LBS (6.4 kg)
- PAYLOAD SHALL NOT EXCEED 15 LBS OR 15 FT-LBS OF TORQUE ABOUT THE ELEVATION AXIS. TO CALCULATE TORQUE, TAKE THE DISTANCE FROM THE PAYLOAD CENTER OF GRAVITY TO DATUM -C- IN FEET AND MULTIPLY BY THE PAYLOAD WEIGHT. MAXIMUM OPERATING TORQUE MAY BE REDUCED AT TEMPERATURES BELOW -4°F (-20°C) AND/OR WITH PERIPHERAL DEVICES
- RADIO OR AUXILIARY MOUNTING HOLES (BOTH SIDES)
- TABLE TOP MOUNTING HOLES
- CENTER OF GRAVITY 0.5" (1.3 cm) IN THE X-DIRECTION, 0.1" (0.3 cm) IN THE Y-DIRECTION AND 4.1" (10.4 cm) IN THE Z-DIRECTION
- OPTIONAL "STOW" AND "GO" BUTTONS MAY BE ADDED TO ASSIST IN SATELLITE LINK SETUP FOR LINKASAT-360MPT-11. WHEN BUTTONS ARE USED GREEN LED IS NOT POPULATED

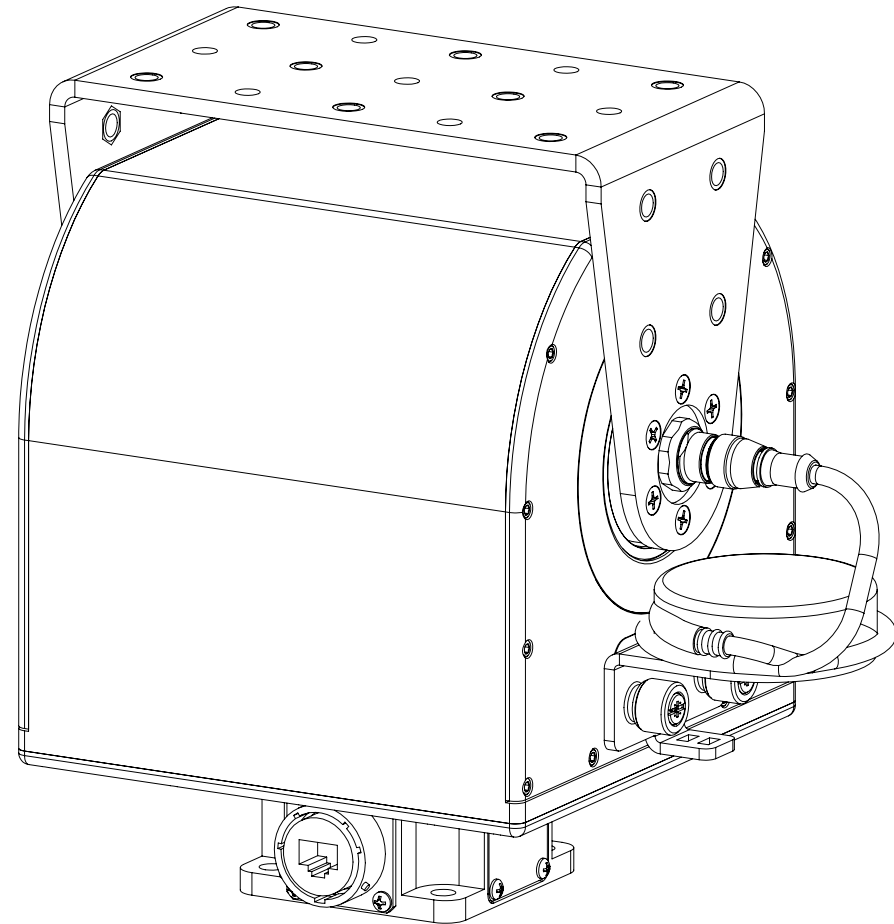


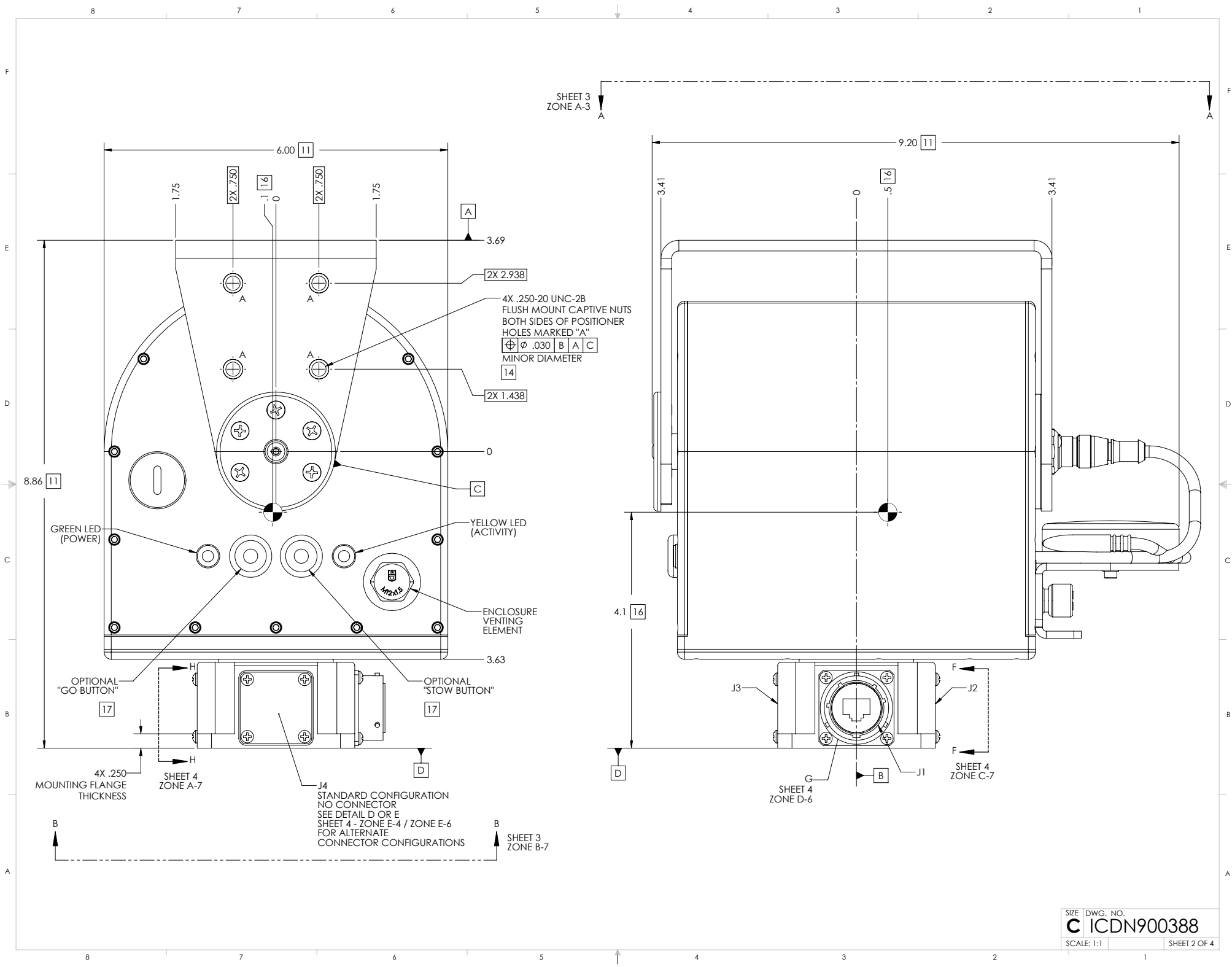
TABLE I

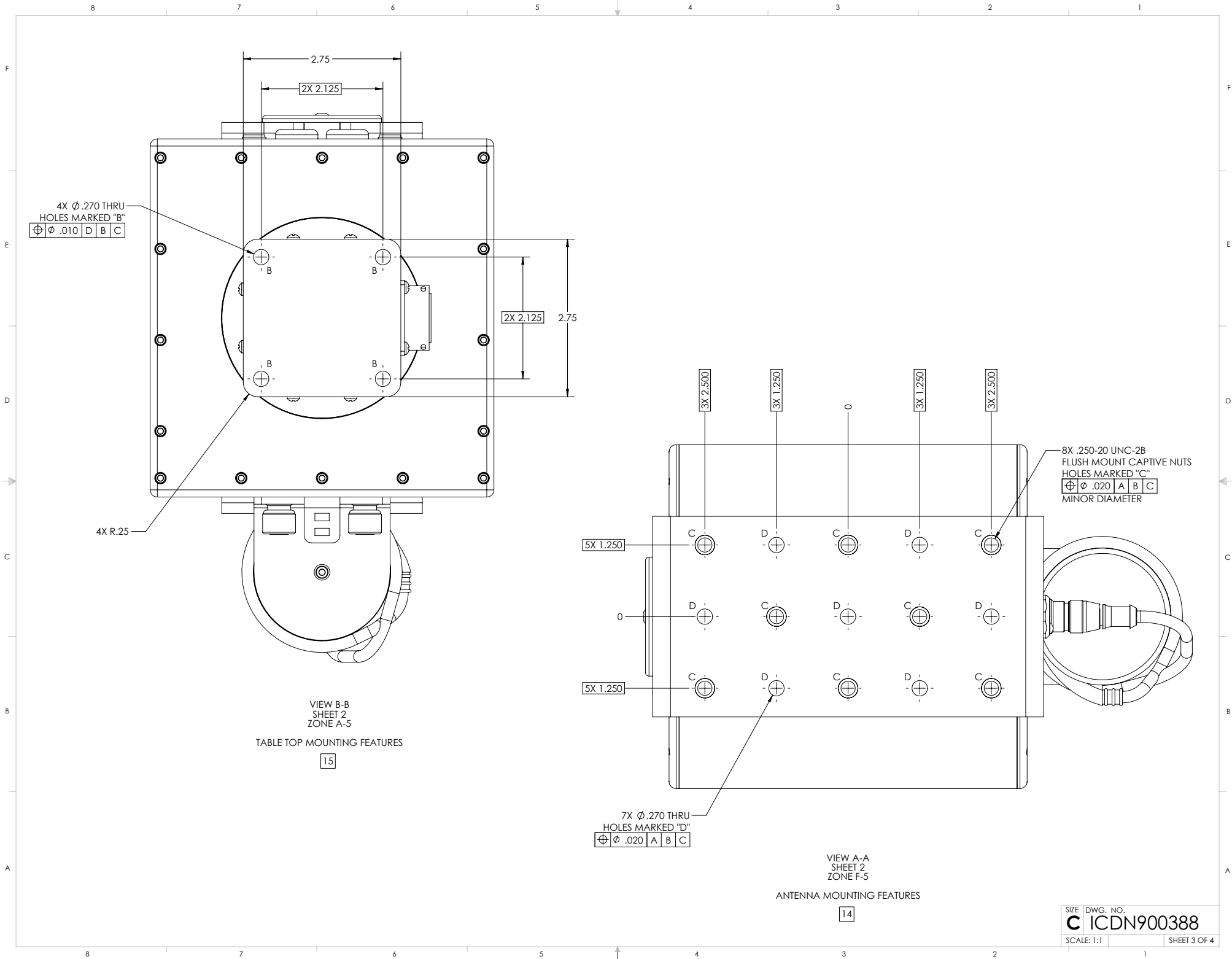
BUILDING A PART NUMBER	STANDARD OPTIONS
LX-360MPT - 10 - 100	<<EXAMPLE
	<b>SHIELDED ETHERNET CABLE STANDARD LENGTHS</b>
	050 = 50 ft
	100 = 100 ft
	150 = 150 ft
	200 = 200 ft
	250 = 250 ft
	300 = 300 ft
	XXX = Custom length in feet
	XXXC = Add "C" to end of cable length for unterminated mating connector
	<b>CUSTOM CONFIGURATION</b>
	= Standard options - leave blank
	<b>MOTOR DRIVES AND PAYLOAD</b>
	10 = No Longer Available
	11 = Az/EI Travel @ 14°/s, EI Torque 15 ft-lbs, 15 lb payload. Typically paired with ~1 ft antenna
	<b>MODEL</b>
	LA-360MPT = LinkAlign-360MPT (+/-200° azimuth, +/-90° elevation)
	LS-360MPT = LinkaSat-360MPT (+/-200° azimuth, +/-90° elevation)

TABLE II (ACCESSORY OPTIONS)

ACCESSORY DESCRIPTION	ACCESSORY PART NUMBER	ACCESSORY ICD
MPT-11 QUICKMOUNT KIT FOR 2 INCH OD OR NEXTMOVE TRIPOD	ACC-N900738-1	ICDN900738
TRIPOD ASSEMBLY, LIGHTWEIGHT, FOLDING, 2 INCH OD MAST	ACC-N900320-1	ICDN900320
TRIPOD ASSEMBLY, LIGHTWEIGHT, 2 INCH OD MAST	ACC-N900868-1	ICDN900868
QUADPOD ASSEMBLY, LIGHTWEIGHT, 2 INCH OD MAST	ACC-N900869-1	ICDN900869

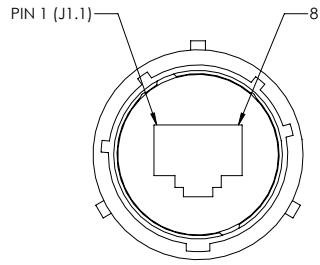
SYMBOL KEY	UNLESS OTHERWISE SPECIFIED:	DRAWN	S. CHEYNE	2016-07-14	QPAR Antennas USA, LLC
□ NOTE	DIMENSIONS ARE IN INCHES	CHECKED	C. CHEYNE	2018-08-06	
○ PL ITEMS	TOLERANCES	ME APPR.	S. CHEYNE	2016-07-14	
	ANGLE ± .5 DEGREES	EE APPR.			
<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF QPAR ANTENNAS USA, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF NEXTMOVE TECHNOLOGIES IS PROHIBITED.		<b>THIRD ANGLE PROJECTION</b> 		PART NO.	TITLE:
QPAR ANTENNAS USA, LLC San Diego, CA 92120 www.qparusa.com		DO NOT SCALE DRAWING		<b>SEE TABLE I</b>	<b>LINKALIGN-360MPT-11 INTERFACE CONTROL DRAWING</b>
				SIZE DWG. NO. <b>C ICDN900388</b>	REV <b>D</b>
				SCALE: 1:1	SHEET 1 OF 4





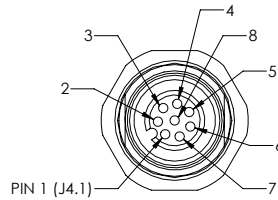
VIEW B-B  
 SHEET 2  
 ZONE A-5  
 TABLE TOP MOUNTING FEATURES  
 15

VIEW A-A  
 SHEET 2  
 ZONE F-5  
 ANTENNA MOUNTING FEATURES  
 14



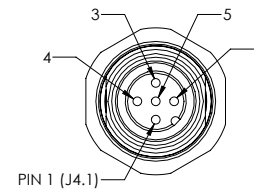
J1 PoE CONNECTOR SHOWN FROM MATING SIDE  
MATES WITH AMPHENOL P/N - RJF6B

DETAIL G  
SCALE 2:1  
SHEET 2  
ZONE B-3  
SHOWN WITHOUT PROTECTIVE CAPS  
SEE TABLE III FOR PINOUT DETAILS



J4 SERIAL CONNECTOR SHOWN FROM MATING SIDE  
MATES WITH TURCK P/N RS 8-T-\*(<sup>\*</sup> LENGTH IN METERS)

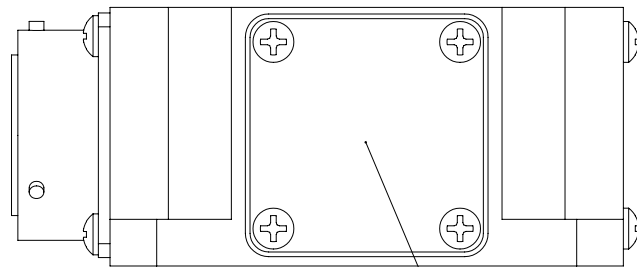
DETAIL D  
SCALE 2:1  
SHEET 2  
ZONE A-6  
SHOWN WITHOUT PROTECTIVE CAPS  
SEE TABLE V FOR PINOUT DETAILS



J4 DC POWER CONNECTOR SHOWN FROM MATING SIDE  
MATES WITH TURCK P/N RK 4.5-T-\*(<sup>\*</sup> LENGTH IN METERS)

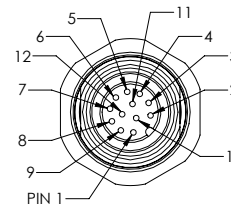
DETAIL E  
SCALE 2:1  
SHEET 2  
ZONE A-6  
SHOWN WITHOUT PROTECTIVE CAPS  
SEE TABLE VI FOR PINOUT DETAILS

4



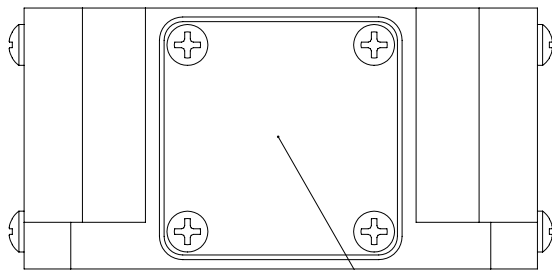
SECTION F-F  
SHEET 2  
ZONE B-2

STANDARD CONFIGURATION  
NO CONNECTOR  
SEE DETAIL G  
FOR ALTERNATE  
CONNECTOR CONFIGURATION



J2 & J3 EXT I/O CONNECTOR SHOWN FROM MATING SIDE  
MATES WITH TURCK P/N RK 12-T-\*(<sup>\*</sup> LENGTH IN METERS)

DETAIL G  
SCALE 2:1  
SHOWN WITHOUT PROTECTIVE CAPS  
SEE TABLE IV FOR PINOUT DETAILS



SECTION H-H  
SHEET 2  
ZONE B-8

STANDARD CONFIGURATION  
NO CONNECTOR  
SEE DETAIL G  
FOR ALTERNATE  
CONNECTOR CONFIGURATION

J1 STANDARD CONNECTOR CONFIGURATION	
TABLE III (PoE CONNECTOR)	
CONNECTOR DESIGNATION	FUNCTION
J1.1	DATA PAIR 1
J1.2	DATA PAIR 1
J1.3	DATA PAIR 2
J1.4	+50-57VDC PoE POWER INPUT
J1.5	+50-57VDC PoE POWER INPUT
J1.6	DATA PAIR 2
J1.7	DC RETURN FOR PoE INPUT
J1.8	DC RETURN FOR PoE INPUT

J2 & J3 ALTERNATE CONNECTOR CONFIGURATION	
TABLE IV (EXT I/O CONNECTORS)	
CONNECTOR DESIGNATION	FUNCTION
J2.1	ADC_1+
J2.2	GND
J2.3	IN2, IN_GPIO_1_27
J2.4	IN1, IN_GPIO_1_16
J2.5	COM
J2.6	IN3, IN_GPIO_1_24
J2.7	OUT1, OUT_GPIO_1_15
J2.8	OUT4, OUT_GPIO_1_22
J2.9	ADC_1-
J2.10	OUT3, OUT_GPIO_1_21
J2.11	IN4, IN_GPIO_1_14
J2.12	OUT2, OUT_GPIO_1_17
J3.1	ADC_2+
J3.2	GND
J3.3	IN6, IN_GPIO_0_6
J3.4	IN5, IN_GPIO_3_16
J3.5	COM
J3.6	IN7, IN_GPIO_1_26
J3.7	OUT5, OUT_GPIO_0_13
J3.8	OUT8, OUT_GPIO_1_28
J3.9	ADC_2-
J3.10	OUT7, OUT_GPIO_1_25
J3.11	IN 8, IN_GPIO_2_0
J3.12	OUT6, OUT_GPIO_3_21

J4 ALTERNATE CONNECTOR CONFIGURATION	
TABLE V (SERIAL CONNECTOR)	
CONNECTOR DESIGNATION	FUNCTION
J4.1	5V
J4.2	GND
J4.3	12V
J4.4	GND
J4.5	RS232, UART4 Tx
J4.6	RS232, UART4 Rx
J4.7	RS232, UART5 Tx
J4.8	RS232, UART5 Rx

J4 ALTERNATE CONNECTOR CONFIGURATION	
TABLE VI (DC POWER CONNECTOR)	
CONNECTOR DESIGNATION	FUNCTION
J4.1	N/C
J4.2	N/C
J4.3	+20-60 VDC POWER INPUT
J4.4	N/C
J4.5	GND