

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

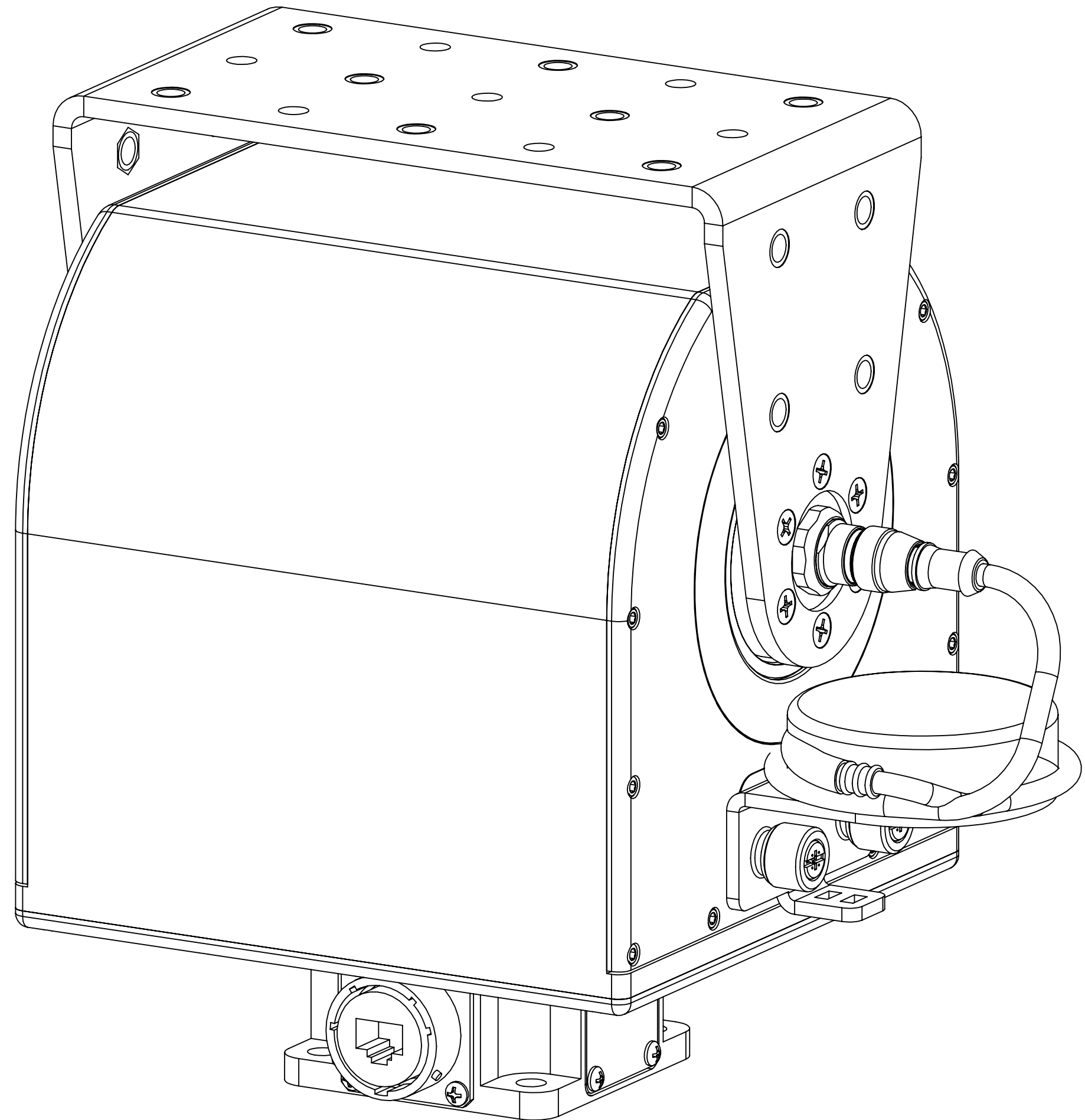
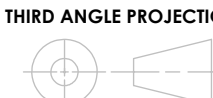
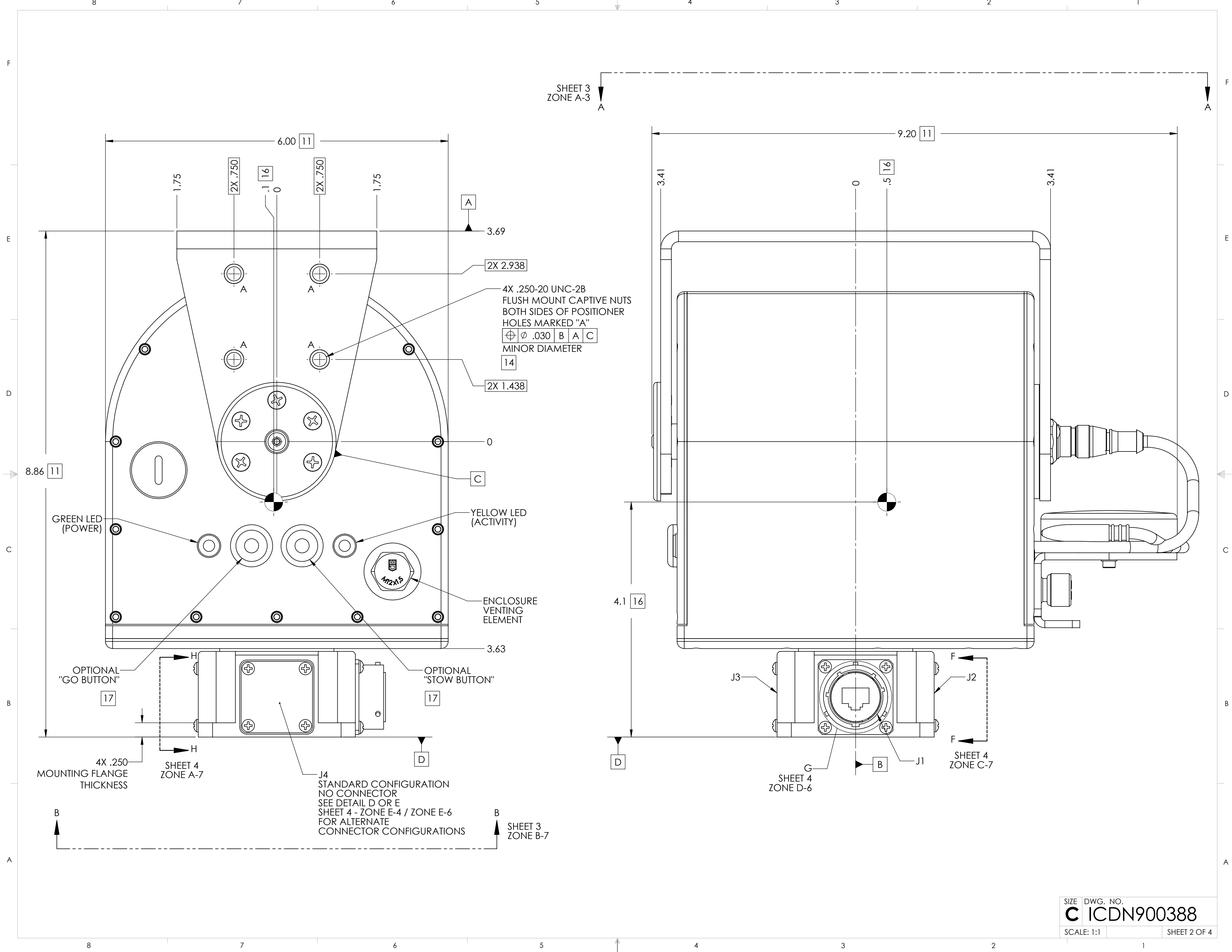
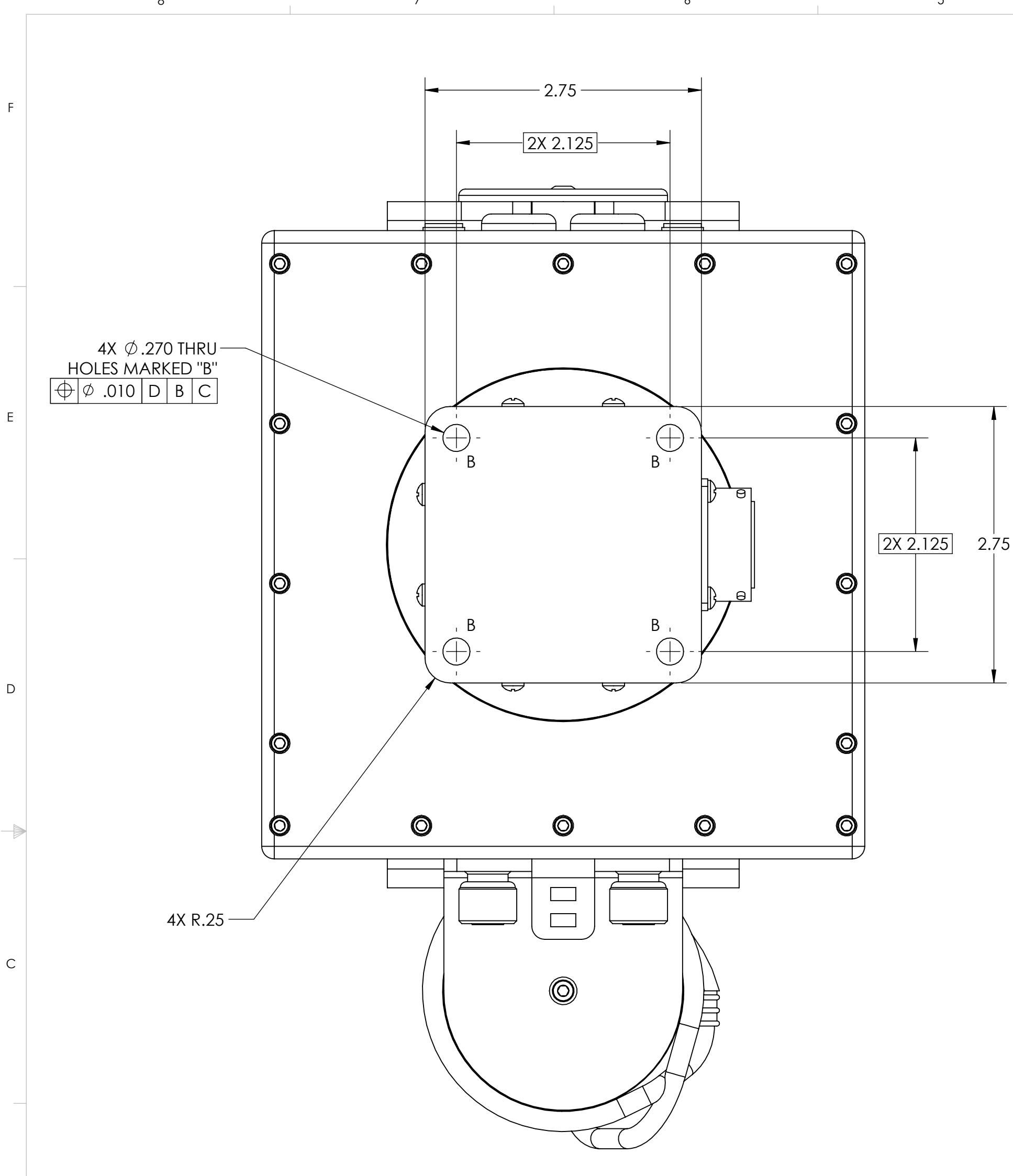


TABLE I	
BUILDING A PART NUMBER	STANDARD OPTIONS
LX-360MPT - 10 - - 100	<<EXAMPLE
	SHIELDED ETHERNET CABLE STANDARD LENGTHS
	050 = 50 ft
	100 = 100 ft
	150 = 150 ft
	200 = 200 ft
	250 = 250 ft
	300 = 300 ft
	XXX = Custom length in feet
	XXXC = Add "C" to end of cable length for unterminated mating connector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

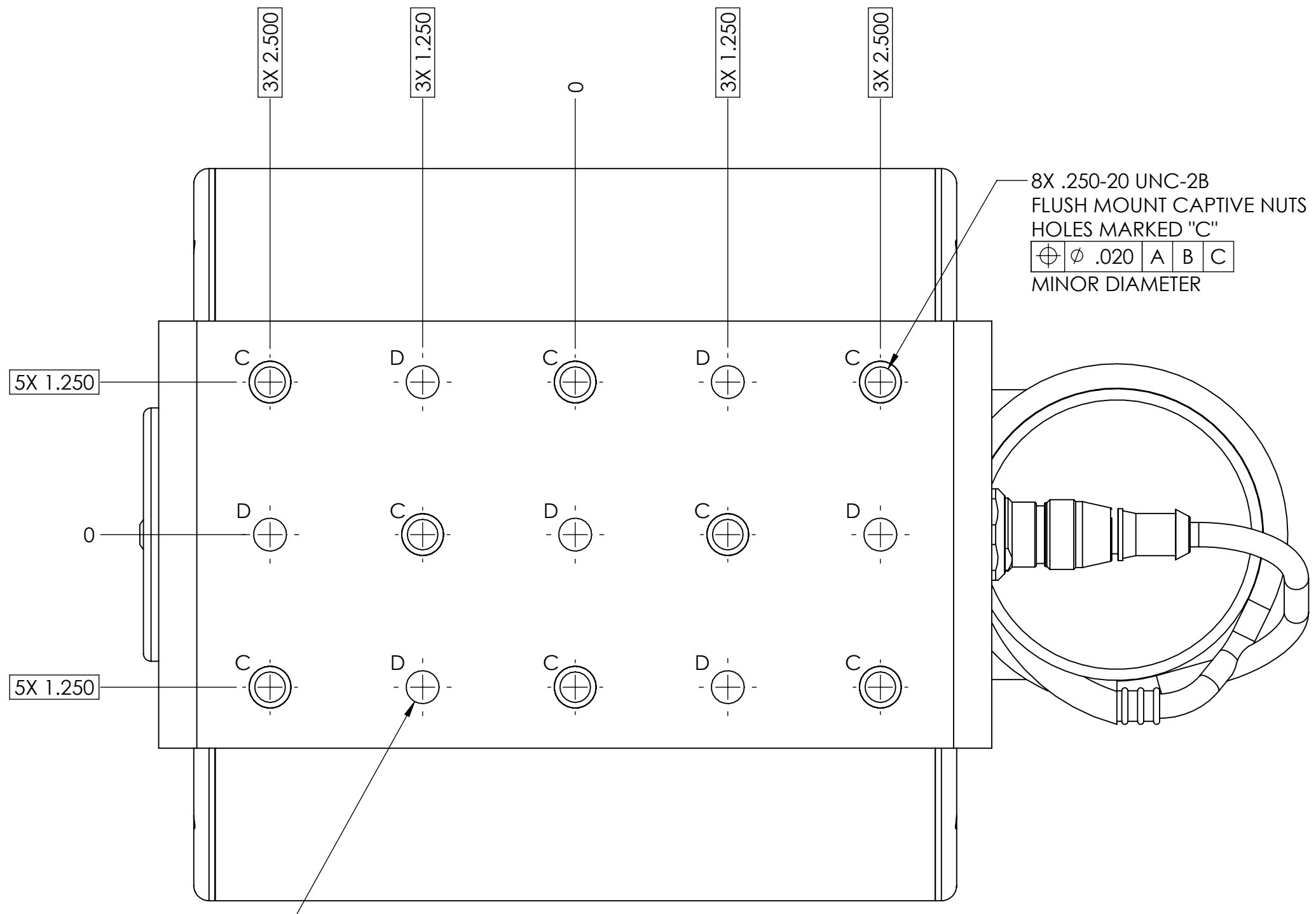
TABLE II (ACCESSORY OPTIONS)		
ACCESSORY DESCRIPTION	ACCESSORY PART NUMBER	ACCESSORY ICD
MPT-11 QUICKMOUNT KIT FOR 2 INCH OD OR NEXTMOVE TRIPOD	ACC-N900738-1	ICDN900738
TRIPOD ASSEMBLY, LIGHTWEIGHT, FOLDING, 2 INCH OD MAST	ACC-N900320-1	ICDN900320
TRIPOD ASSEMBLY, LIGHTWEIGHT, 2 INCH OD MAST	ACC-N900868-1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

SYMBOL KEY <input type="checkbox"/> NOTE <input type="checkbox"/> PL ITEMS PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF NEXTMOVE TECHNOLOGIES. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF NEXTMOVE TECHNOLOGIES IS PROHIBITED. NEXTMOVE TECHNOLOGIES, LLC HOLLIS, NH 03049 www.nextmove.tech.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 THIRD ANGLE PROJECTION  DO NOT SCALE DRAWING	DRAWN S. CHEYNE 2016-07-14 CHECKED C. CHEYNE 2018-08-06 ME APPR. S. CHEYNE 2016-07-14 EE APPR.	NEXTMOVE TECHNOLOGIES TITLE: LINKALIGN-360MPT-11 INTERFACE CONTROL DRAWING	
		PART NO. SEE TABLE I	SIZE DWG. NO. C ICDN900388	REV D
		SCALE: 1:1		SHEET 1 OF 4
		NEXTMOVE TECHNOLOGIES, LLC HOLLIS, NH 03049 www.nextmove.tech.com		

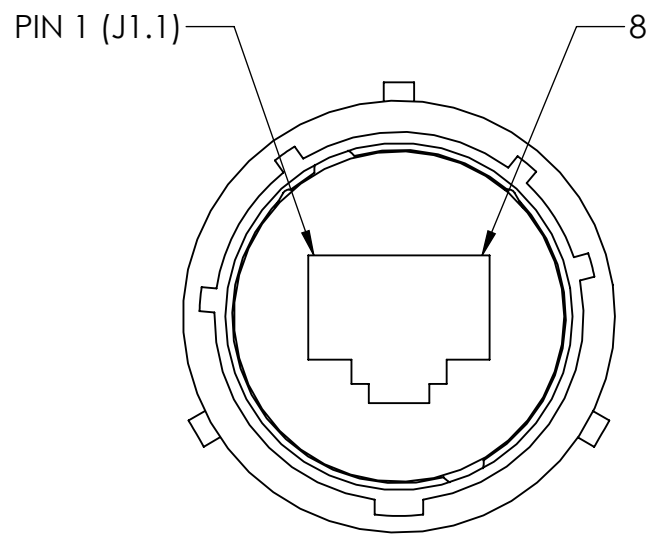




VIEW B-B
SHEET 2
ZONE A-5
TABLE TOP MOUNTING FEATURES
15



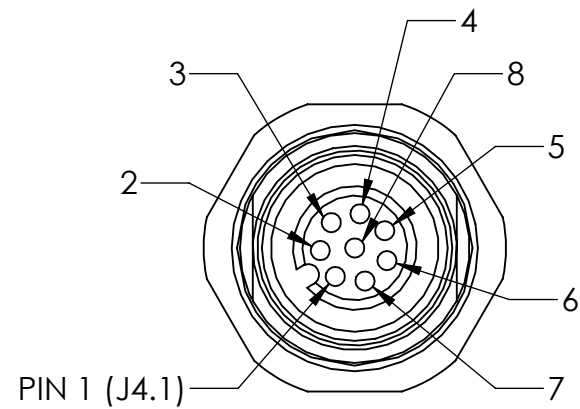
VIEW A-A
SHEET 2
ZONE F-5
ANTENNA MOUNTING FEATURES
14



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

DETAIL G
SCALE 2:1
SHEET 2
ZONE B-3

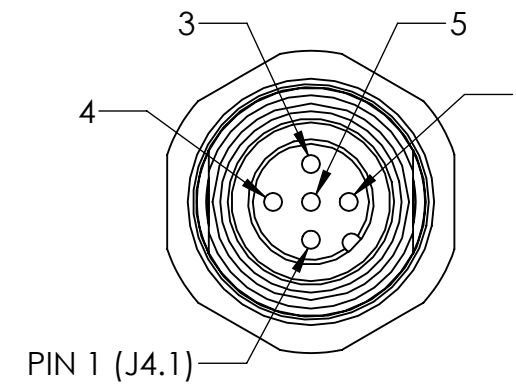
SHOWN WITHOUT PROTECTIVE CAPS
SEE TABLE III FOR PINOUT DETAILS



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

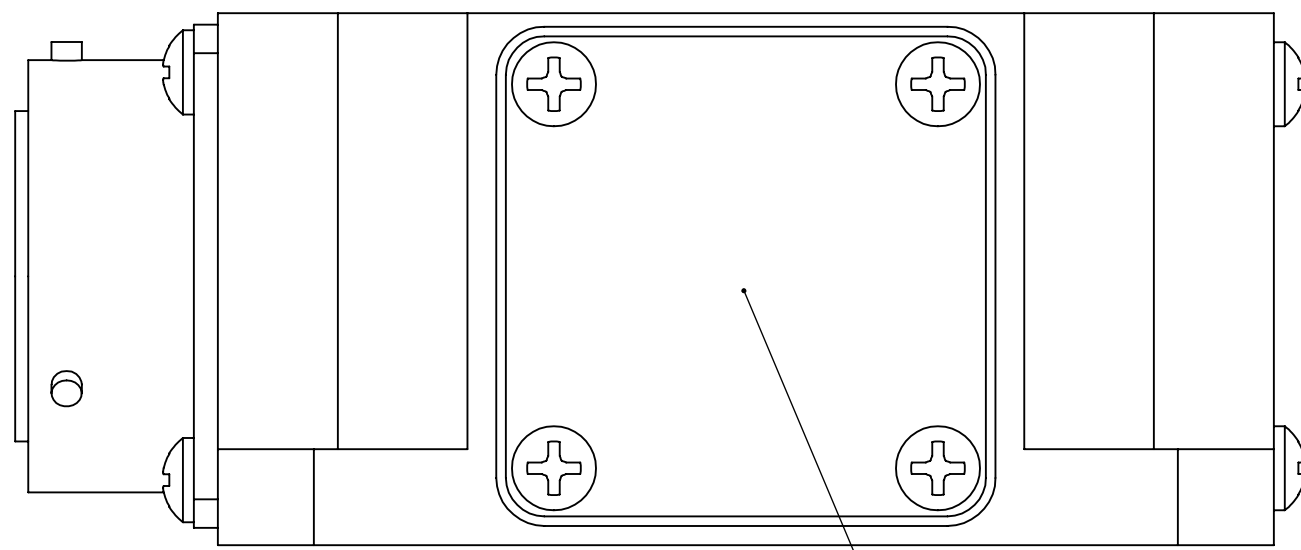
DETAIL E
SCALE 2:1
SHEET 2
ZONE A-6

SHOWN WITHOUT PROTECTIVE CAPS
SEE TABLE VI FOR PINOUT DETAILS

4

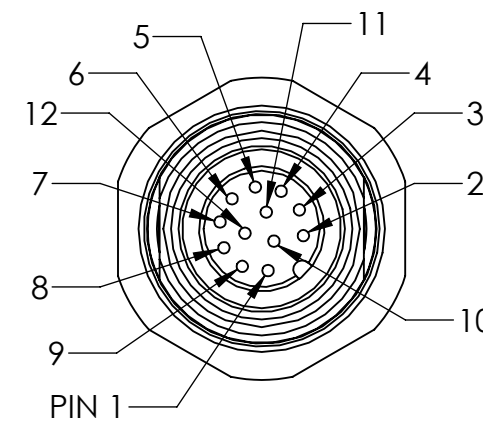
J1 STANDARD CONNECTOR CONFIGURATION	
TABLE III (PoE CONNECTOR)	
CONNECTOR DESIGNATION	FUNCTION
J1.1	DATA PAIR 1
J1.2	DATA PAIR 1
J1.3	DATA PAIR 2
J1.4	+50-57VDC PoE POWER INPUT
J1.5	+50-57VDC PoE POWER INPUT
J1.6	DATA PAIR 2
J1.7	DC RETURN FOR PoE INPUT
J1.8	DC RETURN FOR PoE INPUT

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



SECTION F-F
SHEET 2
ZONE B-2

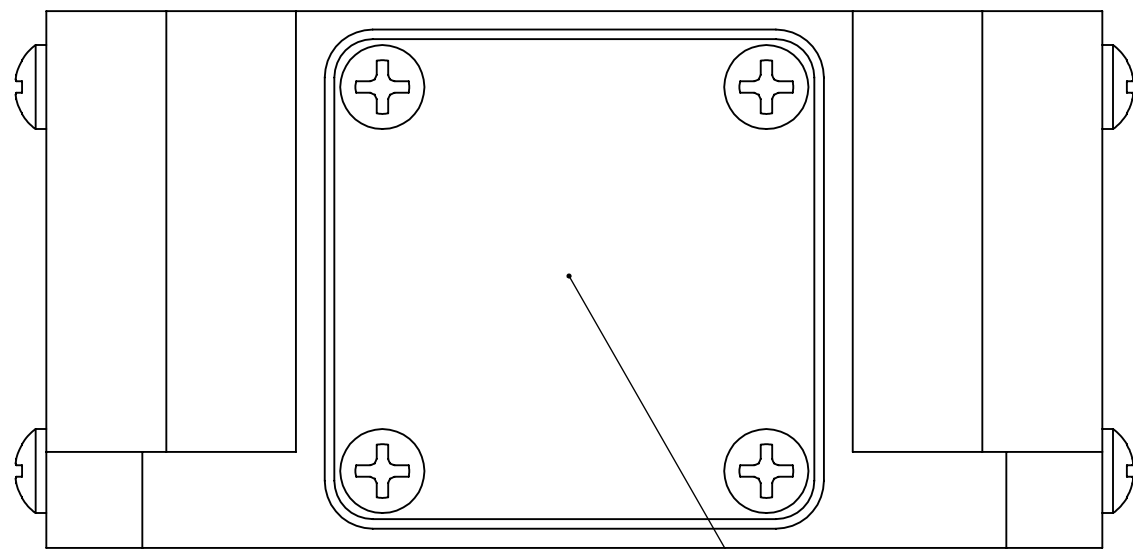
STANDARD CONFIGURATION
NO CONNECTOR
SEE DETAIL G
FOR ALTERNATE
CONNECTOR CONFIGURATION



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

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

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



SECTION H-H
SHEET 2
ZONE B-8

STANDARD CONFIGURATION
NO CONNECTOR
SEE DETAIL G
FOR ALTERNATE
CONNECTOR CONFIGURATION

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