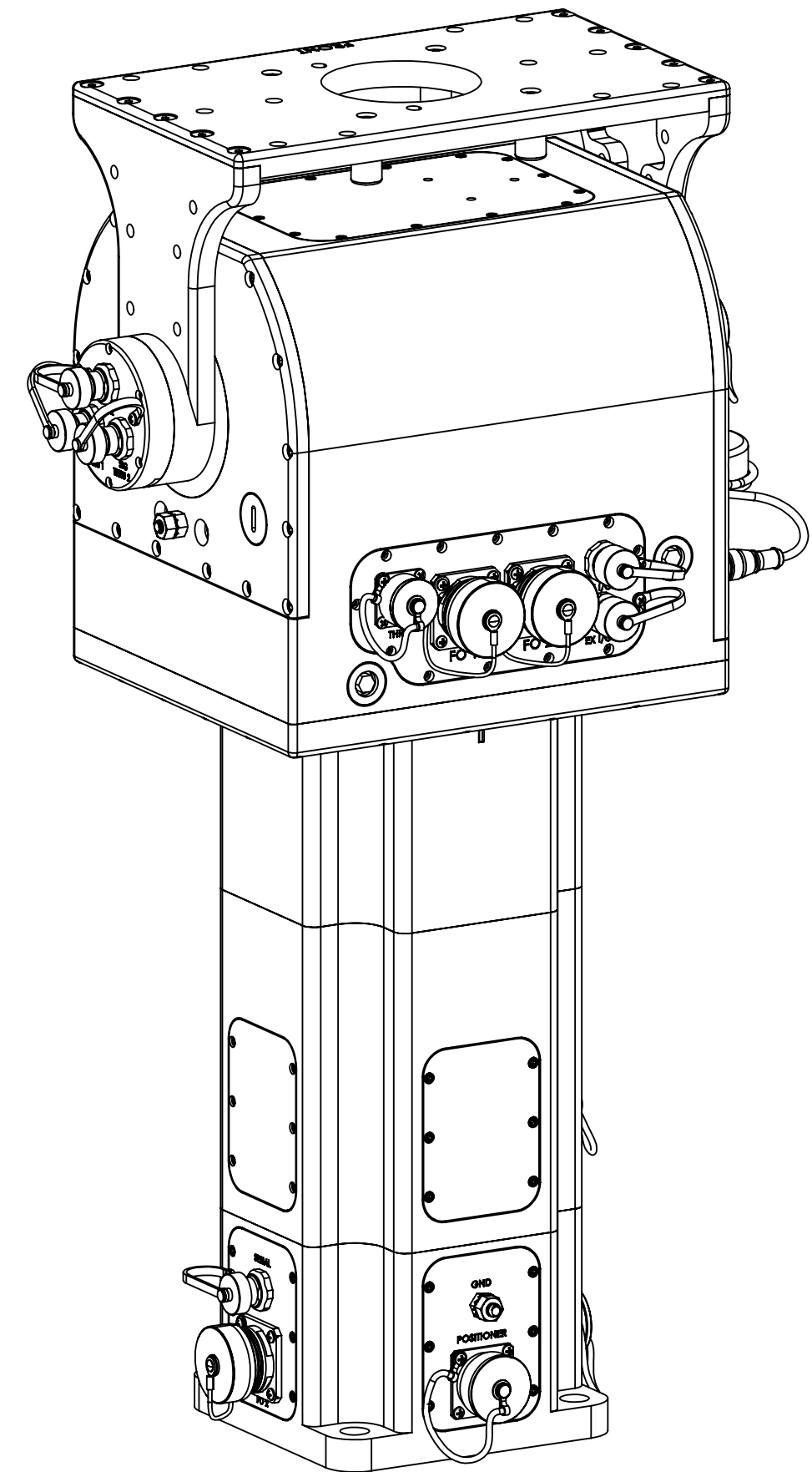
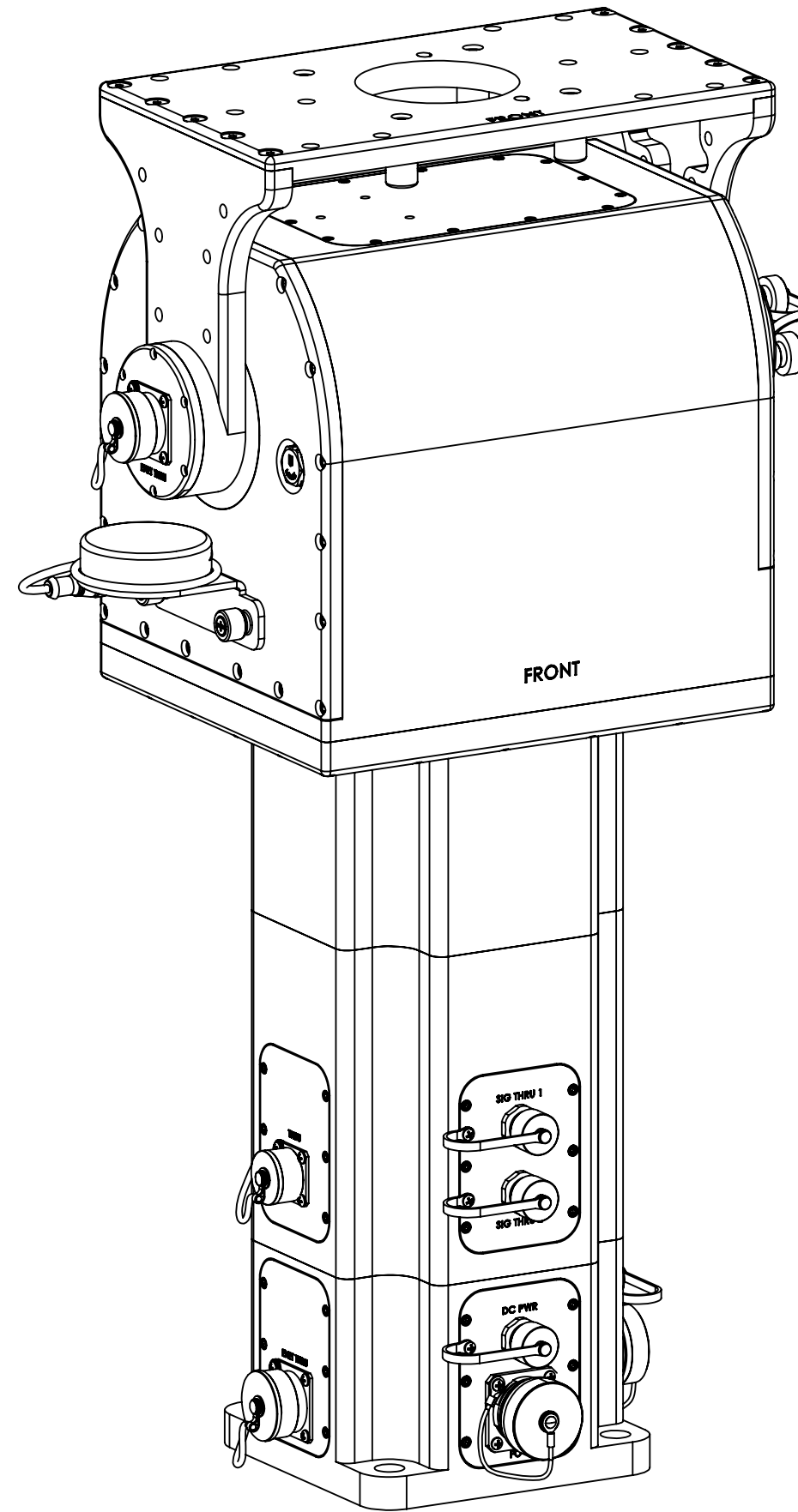



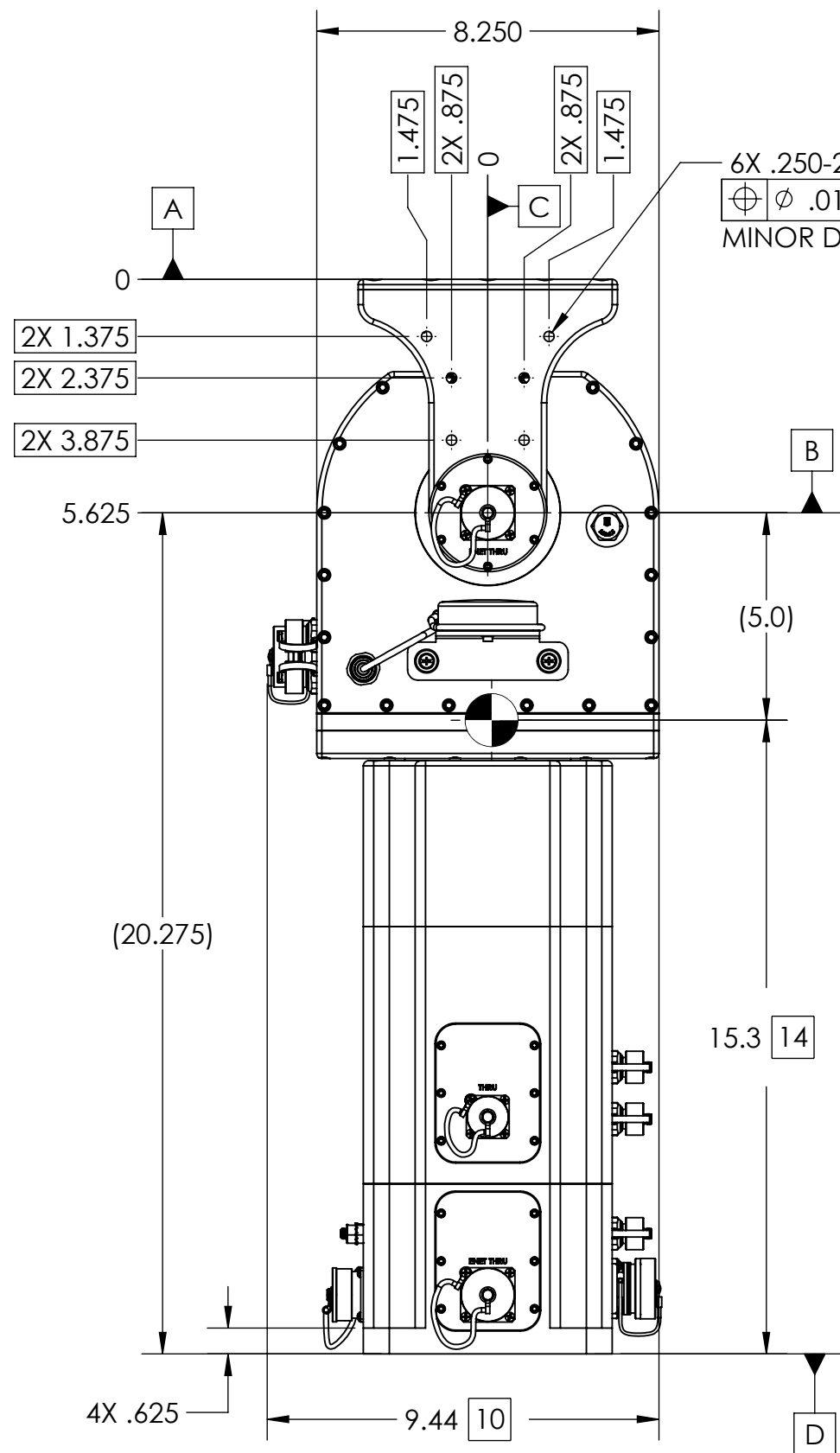
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|-----|-------------|------------|----------|
| A   | IR800975    | 2023-12-06 | CLC      |

NOTES: UNLESS OTHERWISE SPECIFIED

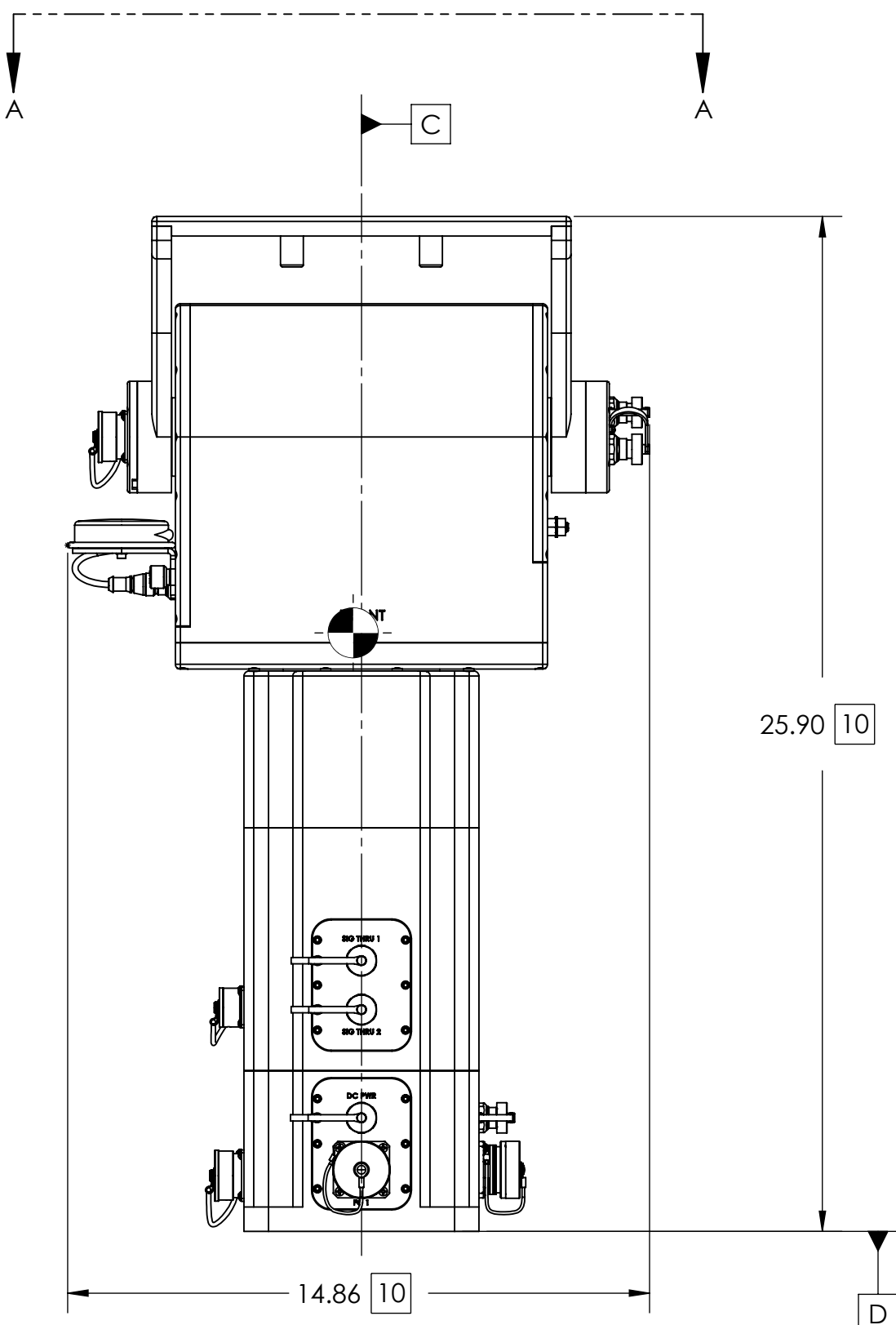
1. LA-C360VPR-30-OE-FO4-MP1 CUSTOM CONFIGURATION
2. USE INTERFACE CONTROL DRAWING IN CONJUNCTION WITH DATASHEET N500242
3. POSITIONER POWERED BY POWER OVER ETHERNET 50-57 VDC, 4 PAIR, PoH (INDOOR RATED 54 VDC POWER SUPPLY INCLUDED WITH POSITIONER. NOT SHOWN IN DRAWING). OPTIONAL DC POWER INPUT MAY BE USED AS ALTERNATE CUSTOM CONFIGURATION, 20-60 V. STANDBY POWER DRAWS LESS THAN 16 W. MAXIMUM POWER DRAW, 95 W
4. EXTERNAL CONSTRUCTION COMPRISED OF HARD COAT ANODIZE ALUMINUM WITH STAINLESS STEEL HARDWARE
5. CONTINUOUS AZIMUTH TRAVEL UTILIZING FIBER OPTIC ROTARY JOINT WITH UP TO 2.6°/SEC DRIVE RATE
6. 145° (+50°/-95°) ELEVATION TRAVEL WITH 0.7°/SEC DRIVE RATE
7. -4° TO 140°F (-20° TO 60°C) OPERATIONAL TEMPERATURE RANGE (NO LOAD). -40° TO 158°F (-40 TO 70°C) NON-OPERATIONAL TEMPERATURE RANGE
8. 0.01° FEEDBACK RESOLUTION IN ALL AXES
9. AZIMUTH AND ELEVATION BACKLASH LESS THAN 0.15°
10. 25.90" (65.79 cm) HIGH X 14.86" (37.74 cm) WIDE X 7.36" (18.90 cm) DEEP. DIMENSIONS APPLY WHEN POSITIONER IS AT 0° AZIMUTH AND 0° ELEVATION ANGLES. ENVELOPE DIMENSIONS MAY VARY WITH CUSTOMIZATIONS
11. WEIGHT APPROXIMATELY 62.5 LBS (28.3 kg)
12. PAYLOAD SHALL NOT EXCEED 100 LBS (45.4 kg) OR 135 FT-LBS (183 Nm) OF TORQUE ABOUT THE ELEVATION AXIS. TO CALCULATE TORQUE, TAKE THE DISTANCE FROM THE PAYLOAD CENTER OF GRAVITY TO DATUM -B- IN FEET AND MULTIPLY BY THE PAYLOAD WEIGHT
13. TABLE TOP MOUNTING HOLES USES NEXTMOVE TYPE 4.750-P INTERFACE. ACCESSORIES AVAILABLE TO MATE WITH THIS INTERFACE, CONTACT NEXTMOVE FOR ADDITIONAL INFORMATION
14. CENTER OF GRAVITY 0.2" (0.5 cm) IN THE X-DIRECTION, 15.3" (38.9 cm) IN THE Y-DIRECTION AND 0.1" (0.3 cm) IN THE Z-DIRECTION
15. FOUR CHANNEL FIBER OPTIC ROTARY JOINT (SENRING PART NUMBER FO408-48-40365), FIBER WAVELENGTH: SM, 1310nm/1550nm, INSERTION LOSS: <4dB, RETURN LOSS: >50 dB, MAX LIGHT POWER: 23dBm, WIRE LENGTH: 39.4" (100cm) & CONNECTOR TYPE: SINGLE MODE LC
16. SIGNAL PASS THRU CONNECTOR USE APPROXIMATELY 40" (102 cm) INTERNAL LENGTH, 22 AWG WIRE ABLE TO CARRY UP TO 2A. CONNECTOR TYPE TURCK P/N F5FD 10-0.5 ON AZIMUTH AND FKFD 10-0.5 ON ELEVATION
17. THRU CONNECTOR USE APPROXIMATELY 40" (102 cm) INTERNAL LENGTH, 17 AWG WIRE ABLE TO CARRY UP TO 10A. CONNECTOR TYPE AMPHENOL P/N PT02E-12-4P-027 ON AZIMUTH AND PT02E-12-4S-027 ON ELEVATION
18. 100Mbps ETHERNET PASS THRU



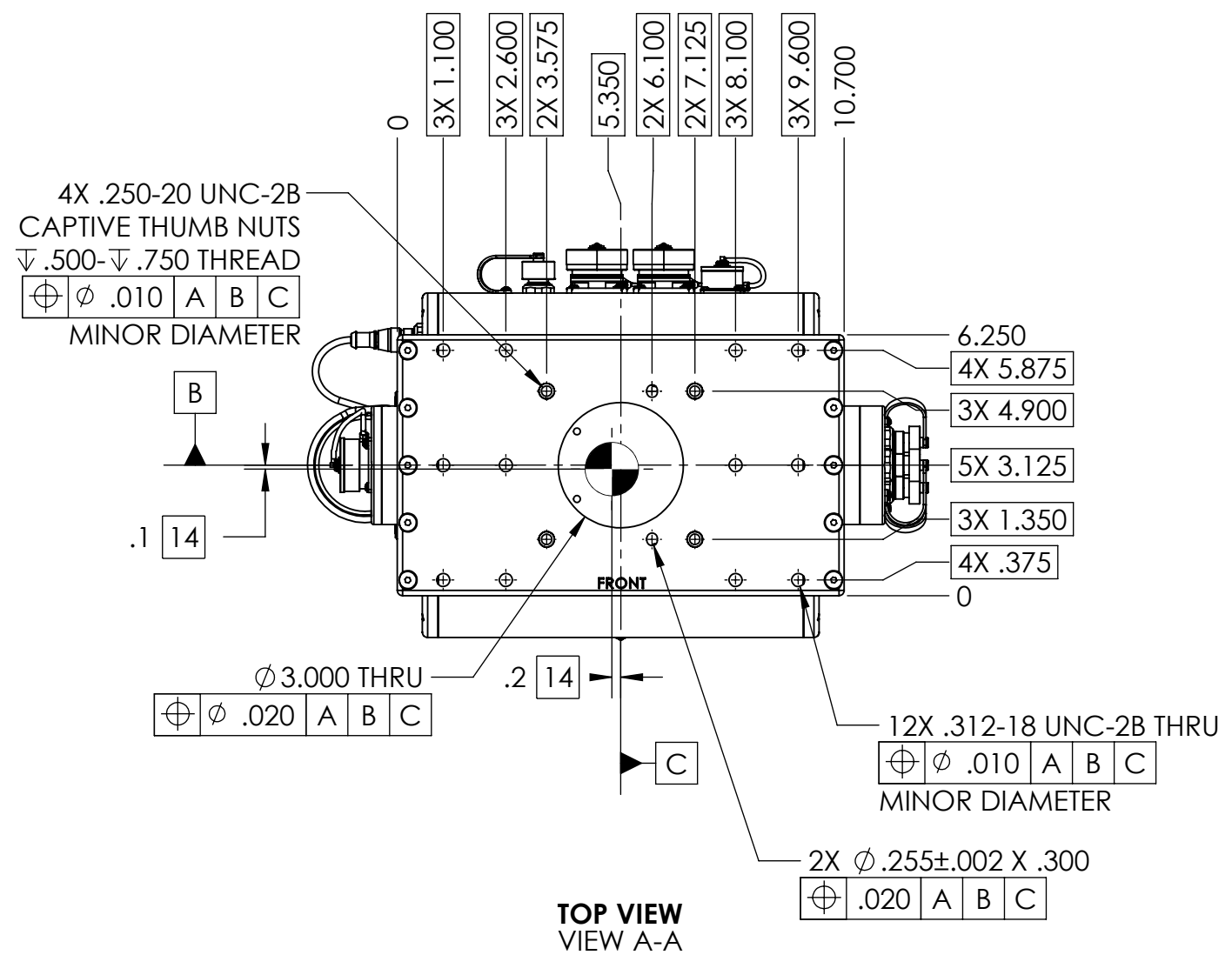
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|---|--|---|---|
| <b>SYMBOL KEY</b><br>□ NOTE    ○ PL ITEMS<br><br><b>PROPRIETARY AND CONFIDENTIAL</b><br>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF NEXTMOVE TECHNOLOGIES. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF NEXTMOVE TECHNOLOGIES IS PROHIBITED.<br><br>NEXTMOVE TECHNOLOGIES, LLC<br>HOLLIS, NH 03049<br>www.nextmove.tech.com | <b>UNLESS OTHERWISE SPECIFIED:</b><br>DIMENSIONS ARE IN INCHES<br>TOLERANCES:<br>ANGLE ± 5 DEGREES<br>TWO PLACE DECIMAL ±.030<br>THREE PLACE DECIMAL ±.010<br><br>INTERPRET DIM AND TOL PER ASME Y14.5M - 1994<br><br><b>THIRD ANGLE PROJECTION</b><br><br>DO NOT SCALE DRAWING | DRAWN C. CHEYNE 2023-11-30<br>CHECKED S. CHEYNE 2023-11-30<br>ME APPR. C. CHEYNE 2023-11-30<br>EE APPR. | <b>NEXTMOVE TECHNOLOGIES</b><br><br>TITLE:<br>LINKALIGN-360VPR-30-OE-FO4-MP1,<br>CUSTOM CONFIGURATION,<br>INTERFACE CONTROL DRAWING<br><br>SIZE DWG. NO. REV<br><b>C</b> ICDN901062 <b>A</b><br>SCALE: 1:3 SHEET 1 OF 5 |
|   |  | PART NO.<br>LINKALIGN-360VPR-30-OE-FO4-MP1  |   |



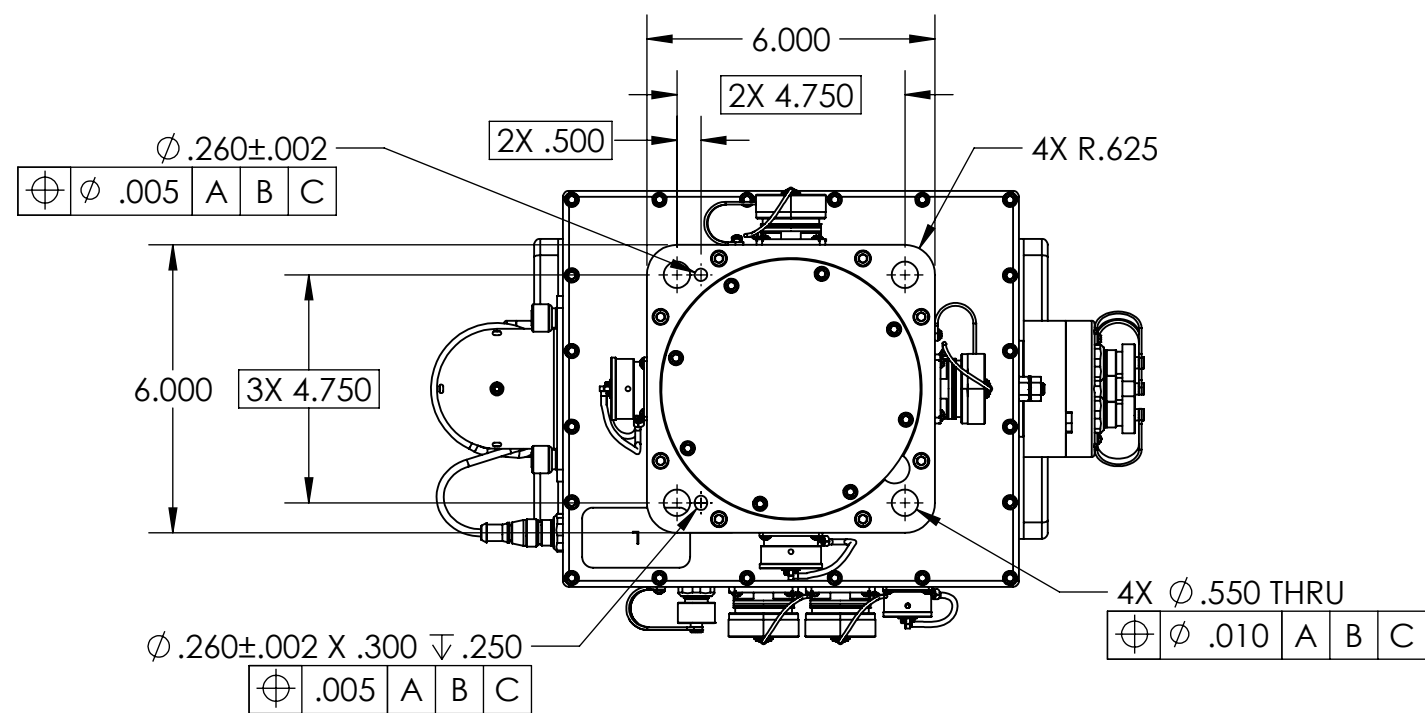
LEFT VIEW



FRONT VIEW



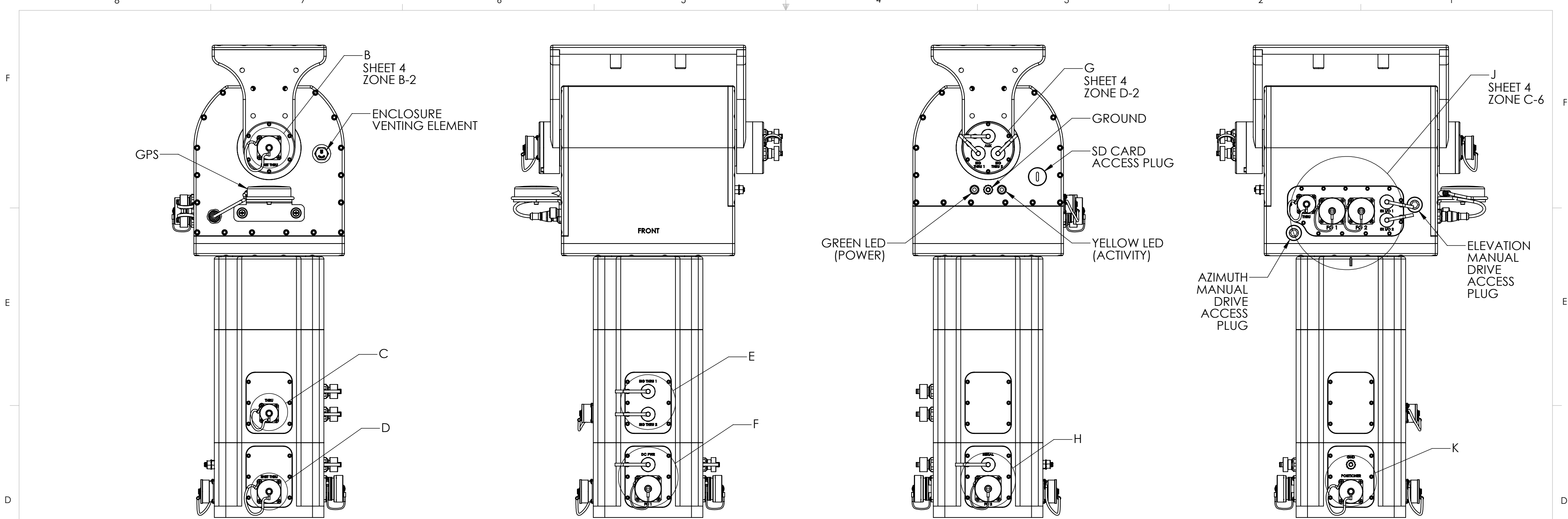
TOP VIEW  
VIEW A-A



BOTTOM VIEW

TABLE TOP MOUNTING NEXTMOVE TYPE 4.750-P INTERFACE

13

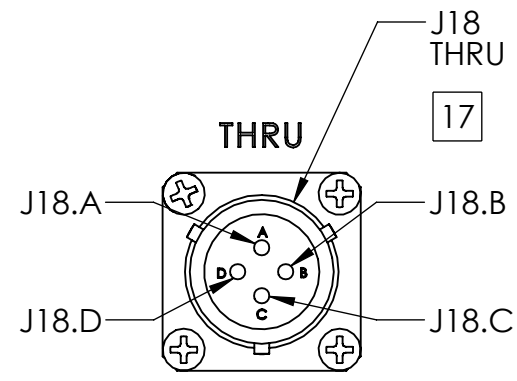


LEFT VIEW

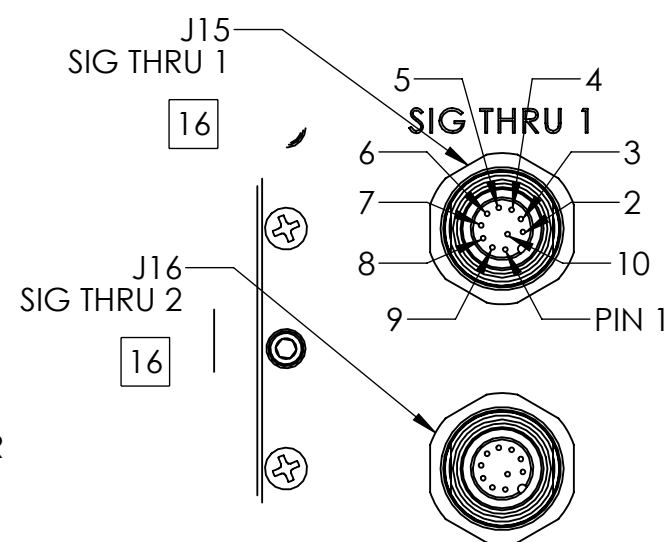
FRONT VIEW

RIGHT VIEW

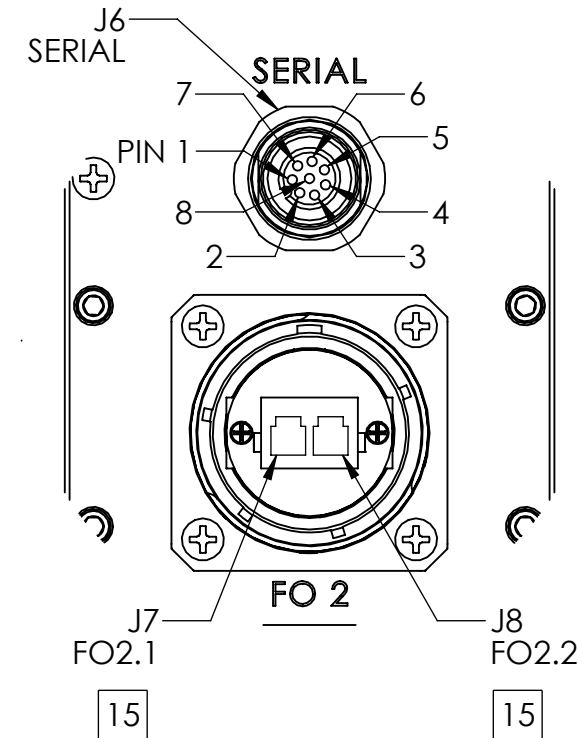
REAR VIEW



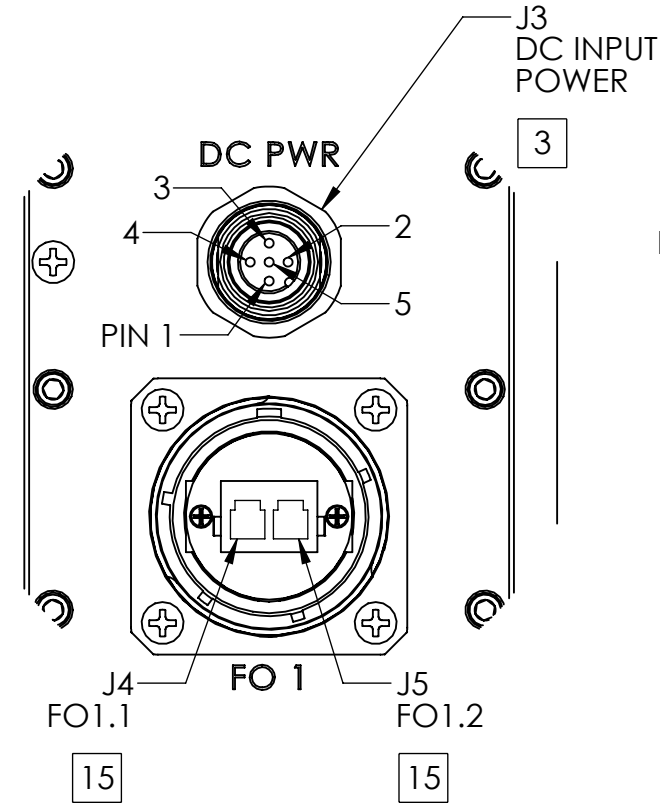
J18 THRU CONNECTOR SHOWN FROM MATING SIDE MATES WITH AMPHENOL P/N PT06E-12-4S OR SIMILAR PT SERIES CONNECTOR  
LEFT VIEW, UPPER AZIMUTH BASE CONNECTOR  
DETAIL C  
SCALE 1 : 1  
SHOWN WITHOUT CONNECTOR CAP  
SEE TABLE VIII FOR J18 THRU CONNECTOR PINOUT DETAILS



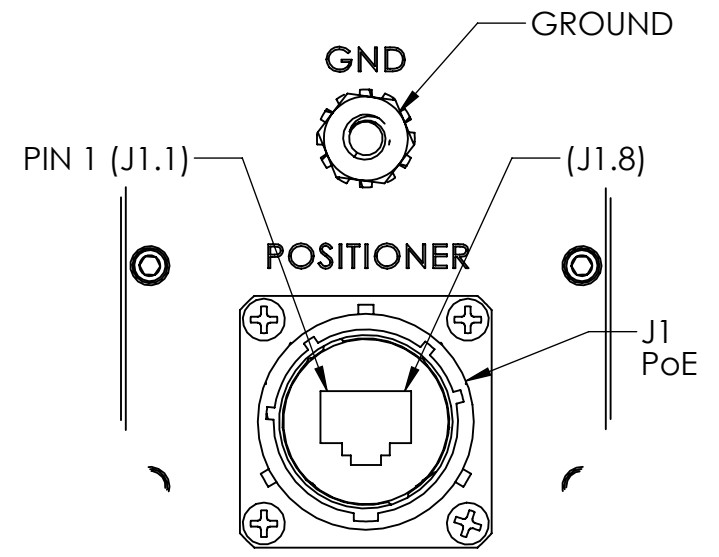
J15 & J16 SIGNAL THRU CONNECTORS SHOWN FROM MATING SIDE MATES WITH TURCK P/N RKC 10T-\* (\* LENGTH IN METERS) OR SIMILAR IN SERIES TURCK CONNECTORS  
FRONT VIEW, UPPER AZIMUTH BASE CONNECTORS  
DETAIL E  
SCALE 1 : 1  
SHOWN WITHOUT CONNECTOR CAP  
SEE TABLE VIII FOR J15 & J16 SIGNAL THRU CONNECTOR PINOUT DETAILS



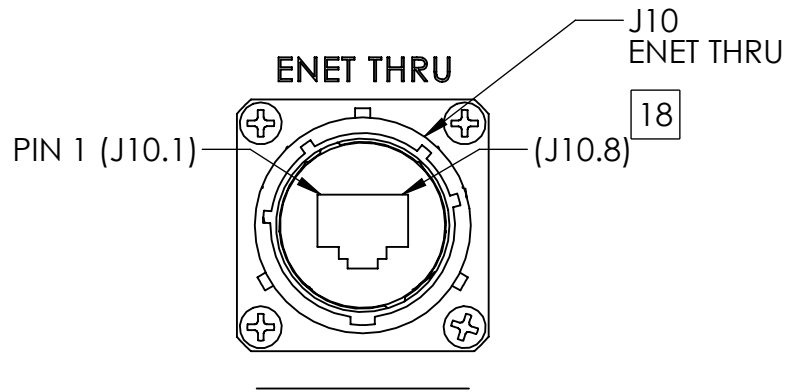
SHOWN FROM MATING SIDE  
J6 SERIAL CONNECTOR MATES WITH TURCK P/N RS 8-T-\* (\* LENGTH IN METERS) OR SIMILAR IN SERIES TURCK CONNECTOR  
J7 & J8 FIBER OPTIC 2 THRU CONNECTORS MATES WITH FIBER OPTIC SINGLE MODE LC CONNECTOR  
FRONT VIEW, LOWER AZIMUTH BASE CONNECTORS  
DETAIL H  
SCALE 1 : 1  
SHOWN WITHOUT CONNECTOR CAPS  
SEE TABLE V FOR J6 SERIAL PINOUT DETAILS  
SEE TABLE VIII FOR J7 & J8 FIBER OPTIC THRU CONNECTOR PINOUT DETAILS



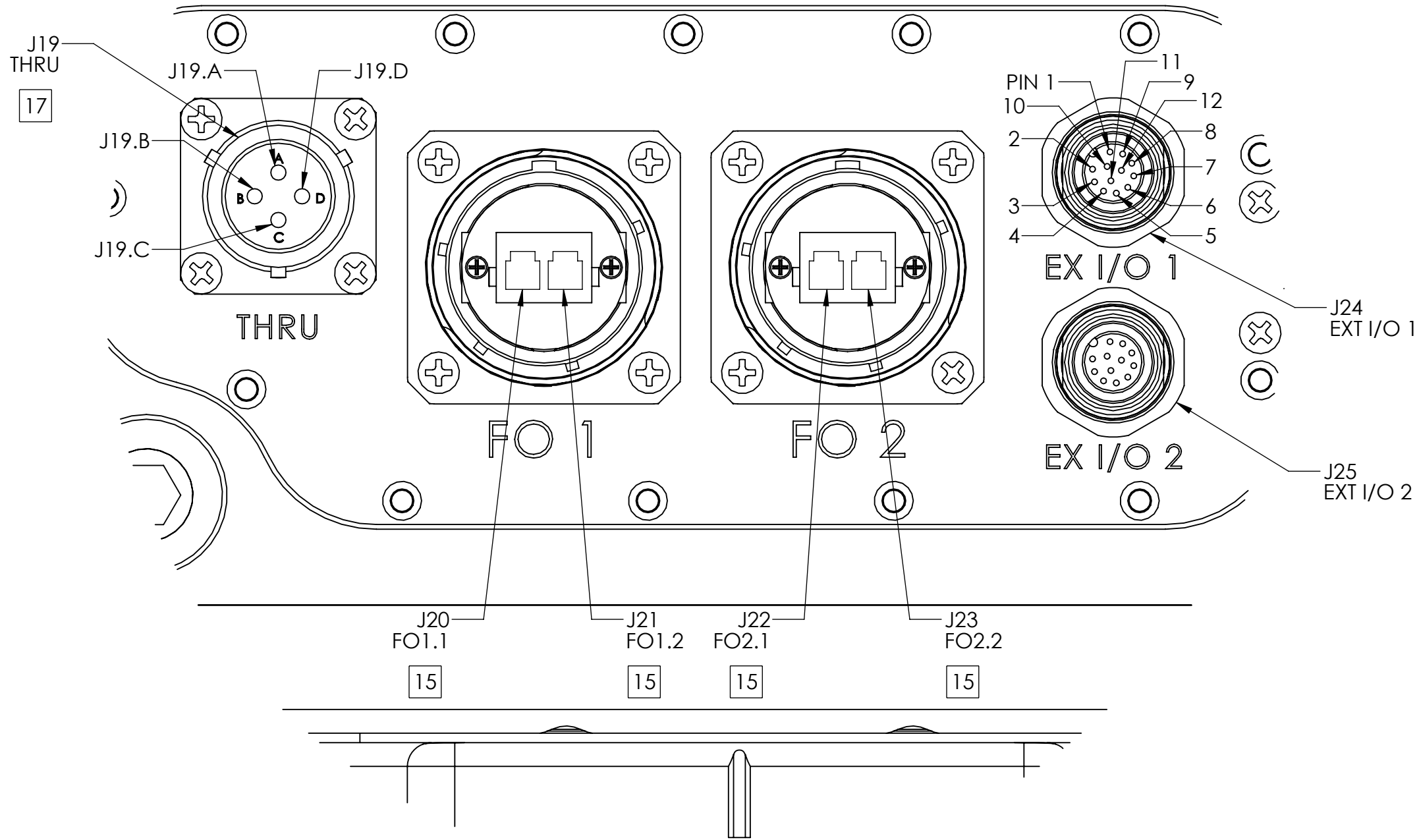
SHOWN FROM MATING SIDE  
J3 DC INPUT POWER CONNECTOR MATES WITH TURCK P/N RKC 4.5-T-\* (\* LENGTH IN METERS) OR SIMILAR IN SERIES TURCK CONNECTOR  
J4 & J5 FIBER OPTIC 1 THRU CONNECTORS MATES WITH FIBER OPTIC SINGLE MODE LC CONNECTOR  
RIGHT VIEW, LOWER AZIMUTH BASE CONNECTORS  
DETAIL F  
SCALE 1 : 1  
SHOWN WITHOUT CONNECTOR CAPS  
SEE TABLE IV FOR J3 DC INPUT POWER PINOUT DETAILS  
SEE TABLE VIII FOR J4 & J5 FIBER OPTIC THRU CONNECTOR PINOUT DETAILS



J1 PoE CONNECTOR SHOWN FROM MATING SIDE MATE WITH AMPHENOL P/N RJF6B  
REAR VIEW, AZIMUTH BASE CONNECTORS  
DETAIL K  
SCALE 1 : 1  
SHOWN WITHOUT CONNECTOR CAP  
SEE TABLE III FOR J1 PoE CONNECTOR PINOUT DETAILS

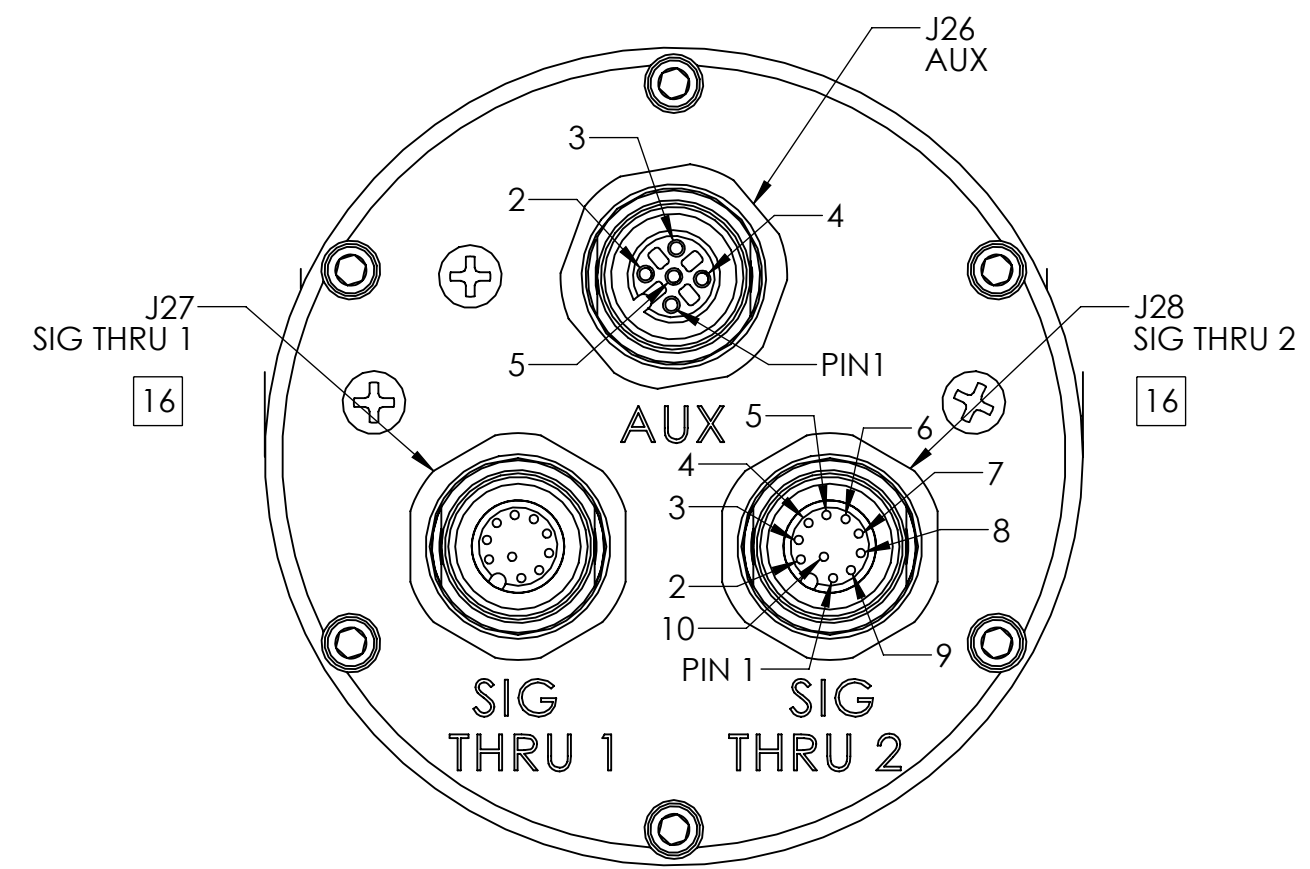


J10 ENET THRU CONNECTOR SHOWN FROM MATING SIDE MATE WITH AMPHENOL P/N RJF6B  
LEFT VIEW, LOWER AZIMUTH BASE CONNECTOR  
DETAIL D  
SCALE 1 : 1  
SHOWN WITHOUT CONNECTOR CAP  
SEE TABLE VIII FOR J10 ENET THRU CONNECTOR PINOUT DETAILS

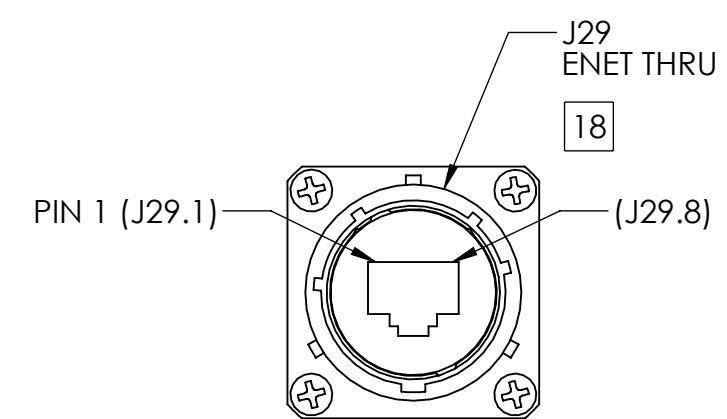


J19 THRU CONNECTOR  
 SHOWN FROM MATING SIDE  
 MATES WITH AMPHENOL P/N PT06E-12-4S  
 OR SIMILAR PT SERIES CONNECTOR  
 J20, J21, J22 & J23 FIBER OPTIC THRU CONNECTORS  
 MATES WITH FIBER OPTIC  
 SINGLE MODE LC CONNECTOR  
 J24 & J25 EXTENDED I/O CONNECTORS  
 MATES WITH TURCK  
 P/N RKC 12T-\* (\* LENGTH IN METERS)  
 OR SIMILAR IN SERIES TURCK CONNECTORS

DETAIL J  
 SCALE 1.5 : 1  
 SHEET 3, ZONE F-1  
 SHOWN WITHOUT CONNECTOR CAPS  
 SEE TABLE VIII FOR J19 THRU CONNECTOR PINOUT DETAILS  
 SEE TABLE VIII FOR J20, J21, J22 & J23 FIBER OPTIC THRU  
 CONNECTOR PINOUT DETAILS  
 SEE TABLE VI FOR J24 & J25 EXT I/O PINOUT DETAILS



SHOWN FROM MATING SIDE  
 J26 AUX CONNECTOR  
 MATES WITH TURCK  
 P/N RS 4.5-T-\* (\* LENGTH IN METERS)  
 OR SIMILAR IN SERIES TURCK CONNECTOR  
 J27 & J28 SIGNAL THRU CONNECTORS  
 MATES WITH TURCK  
 P/N RS 10-T-\* (\* LENGTH IN METERS)  
 OR SIMILAR IN SERIES TURCK CONNECTOR  
 RIGHT VIEW, ELEVATION PANEL CONNECTORS  
 DETAIL G  
 SCALE 1.5 : 1  
 SHEET 3, ZONE F-3  
 SHOWN WITHOUT CONNECTOR CAPS  
 SEE TABLE VII FOR J26 AUX PINOUT DETAILS  
 SEE TABLE VIII FOR J27 & J28 SIGNAL THRU  
 CONNECTOR PINOUT DETAILS



ENET THRU

J29 ENET THRU CONNECTOR  
 SHOWN FROM MATING SIDE  
 MATE WITH AMPHENOL P/N RJF6B  
 LEFT VIEW, ELEVATION PANEL CONNECTOR  
 DETAIL B  
 SCALE 1 : 1  
 SHEET 3, ZONE F-7  
 SHOWN WITHOUT CONNECTOR CAP  
 SEE TABLE V FOR J29 ENET THRU  
 CONNECTOR PINOUT DETAILS

| CONNECTOR DESIGNATION | FUNCTION                |
|-----------------------|-------------------------|
| J1.1                  | DATA PAIR 1             |
| J1.2                  | DATA PAIR 1             |
| J1.3                  | DATA PAIR 2             |
| J1.4                  | +48 VDC PoE POWER INPUT |
| J1.5                  | +48 VDC PoE POWER INPUT |
| J1.6                  | DATA PAIR 2             |
| J1.7                  | DC RETURN FOR PoE INPUT |
| J1.8                  | DC RETURN FOR PoE INPUT |

| CONNECTOR DESIGNATION | FUNCTION               |
|-----------------------|------------------------|
| J3.1                  | N/C                    |
| J3.2                  | N/C                    |
| J3.3                  | +20-60 VDC POWER INPUT |
| J3.4                  | N/C                    |
| J3.5                  | GND                    |

| CONNECTOR DESIGNATION | FUNCTION        |
|-----------------------|-----------------|
| J6.1                  | 5V              |
| J6.2                  | GND             |
| J6.3                  | 12V             |
| J6.4                  | GND             |
| J6.5                  | RS232, UART4 Tx |
| J6.6                  | RS232, UART4 Rx |
| J6.7                  | N/C             |
| J6.8                  | N/C             |

| CONNECTOR DESIGNATION | FUNCTION        |
|-----------------------|-----------------|
| J28.8                 | RS232, UART5 Tx |
| J28.9                 | RS232, UART5 Rx |
| J28.10                | GND             |

| CONNECTOR DESIGNATION | FUNCTION            |
|-----------------------|---------------------|
| <b>EXTENDED I/O 1</b> |                     |
| J24.1                 | ADC_1+              |
| J24.2                 | GND                 |
| J24.3                 | IN2, IN_GPIO_1_27   |
| J24.4                 | IN1, IN_GPIO_1_16   |
| J24.5                 | COM                 |
| J24.6                 | IN3, IN_GPIO_1_24   |
| J24.7                 | OUT1, OUT_GPIO_1_15 |
| J24.8                 | OUT4, OUT_GPIO_1_22 |
| J24.9                 | ADC_1-              |
| J24.10                | OUT3, OUT_GPIO_1_21 |
| J24.11                | IN4, IN_GPIO_1_14   |
| J24.12                | OUT2, OUT_GPIO_1_17 |
| <b>EXTENDED I/O 2</b> |                     |
| J25.1                 | ADC_2+              |
| J25.2                 | GND                 |
| J25.3                 | IN6, IN_GPIO_0_6    |
| J25.4                 | IN5, IN_GPIO_3_16   |
| J25.5                 | COM                 |
| J25.6                 | IN7, IN_GPIO_1_26   |
| J25.7                 | OUT5, OUT_GPIO_0_13 |
| J25.8                 | OUT8, OUT_GPIO_1_28 |
| J25.9                 | ADC_2-              |
| J25.10                | OUT7, OUT_GPIO_1_25 |
| J25.11                | IN 8, IN_GPIO_2_0   |
| J25.12                | OUT6, OUT_GPIO_3_21 |

| CONNECTOR DESIGNATION | FUNCTION        |
|-----------------------|-----------------|
| J26.1                 | GND             |
| J26.2                 | +/-12 VDC MOTOR |
| J26.3                 | +/-12 VDC MOTOR |
| J26.4                 | POT WIPER       |
| J26.5                 | +3.3V           |

| FROM                         | TO                    |
|------------------------------|-----------------------|
| <b>SIGNAL 1 PASS THRU</b>    |                       |
| J15.1                        | J27.1                 |
| J15.2                        | J27.2                 |
| J15.3                        | J27.3                 |
| J15.4                        | J27.4                 |
| J15.5                        | J27.5                 |
| J15.6                        | J27.6                 |
| J15.7                        | J27.7                 |
| J15.8                        | J27.8                 |
| J15.9                        | J27.9                 |
| J15.10                       | J27.10                |
| <b>SIGNAL 2 PASS THRU</b>    |                       |
| J16.1                        | J28.1                 |
| J16.2                        | J28.2                 |
| J16.3                        | J28.3                 |
| J16.4                        | J28.4                 |
| J16.5                        | J28.5                 |
| J16.6                        | J28.6                 |
| J16.7                        | J28.7                 |
| J16.8 (N/C)                  | J28.8 (SEE TABLE IX)  |
| J16.9 (N/C)                  | J28.9 (SEE TABLE IX)  |
| J16.10 (N/C)                 | J28.10 (SEE TABLE IX) |
| <b>THRU PASS THRU</b>        |                       |
| J18.A                        | J19.A                 |
| J18.B                        | J19.B                 |
| J18.C                        | J19.C                 |
| J18.D                        | J19.D                 |
| <b>ETHERNET PASS THRU</b>    |                       |
| J10.1                        | J29.1                 |
| J10.2                        | J29.2                 |
| J10.3                        | J29.3                 |
| J10.4 (N/C)                  | J29.4 (N/C)           |
| J10.5 (N/C)                  | J29.5 (N/C)           |
| J10.6                        | J29.6                 |
| J10.7 (N/C)                  | J29.7 (N/C)           |
| J10.8 (N/C)                  | J29.8 (N/C)           |
| <b>FIBER OPTIC PASS THRU</b> |                       |
| J4.1                         | J20.1                 |
| J5.1                         | J21.1                 |
| J6.1                         | J22.1                 |
| J7.1                         | J23.1                 |