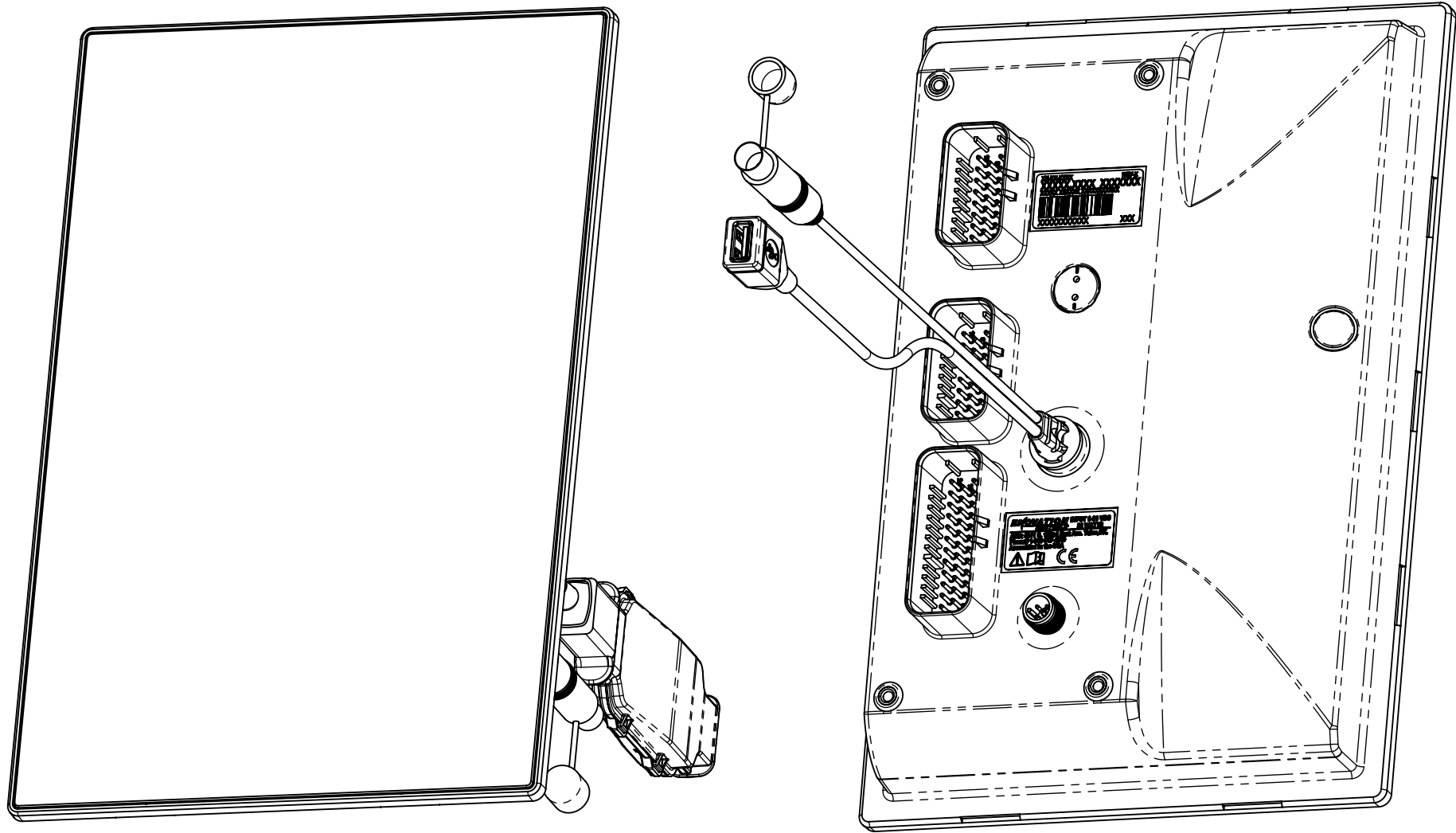
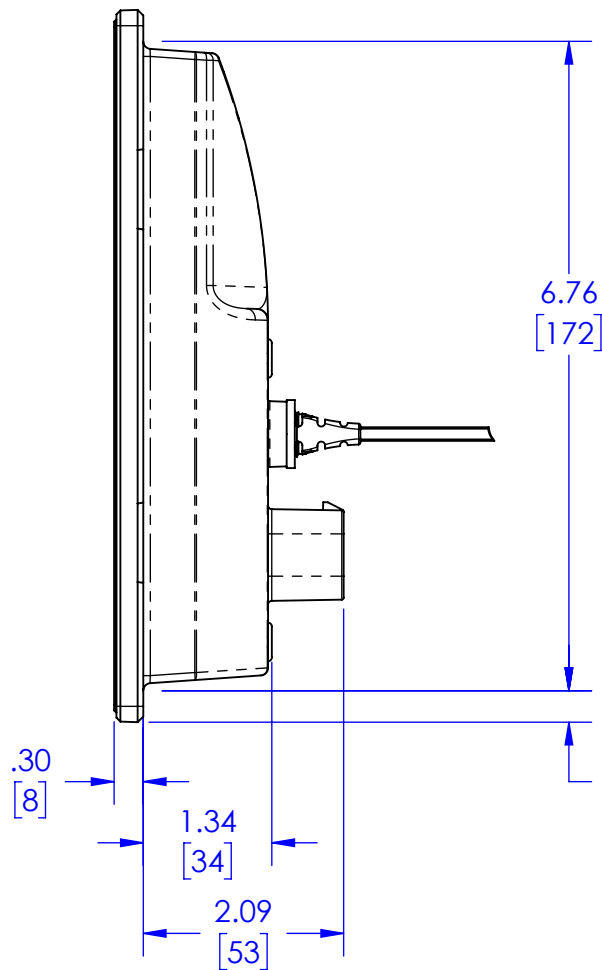
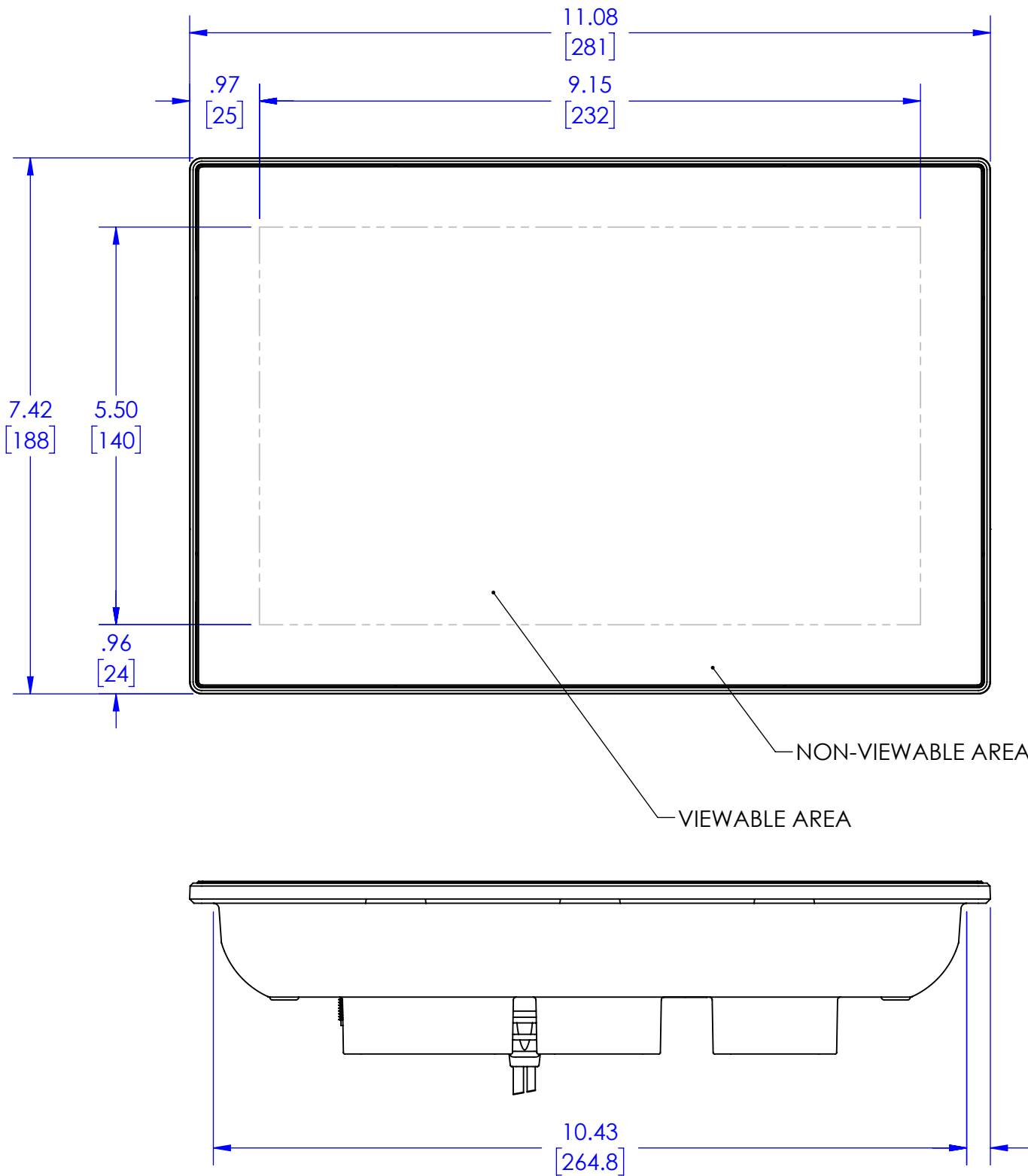


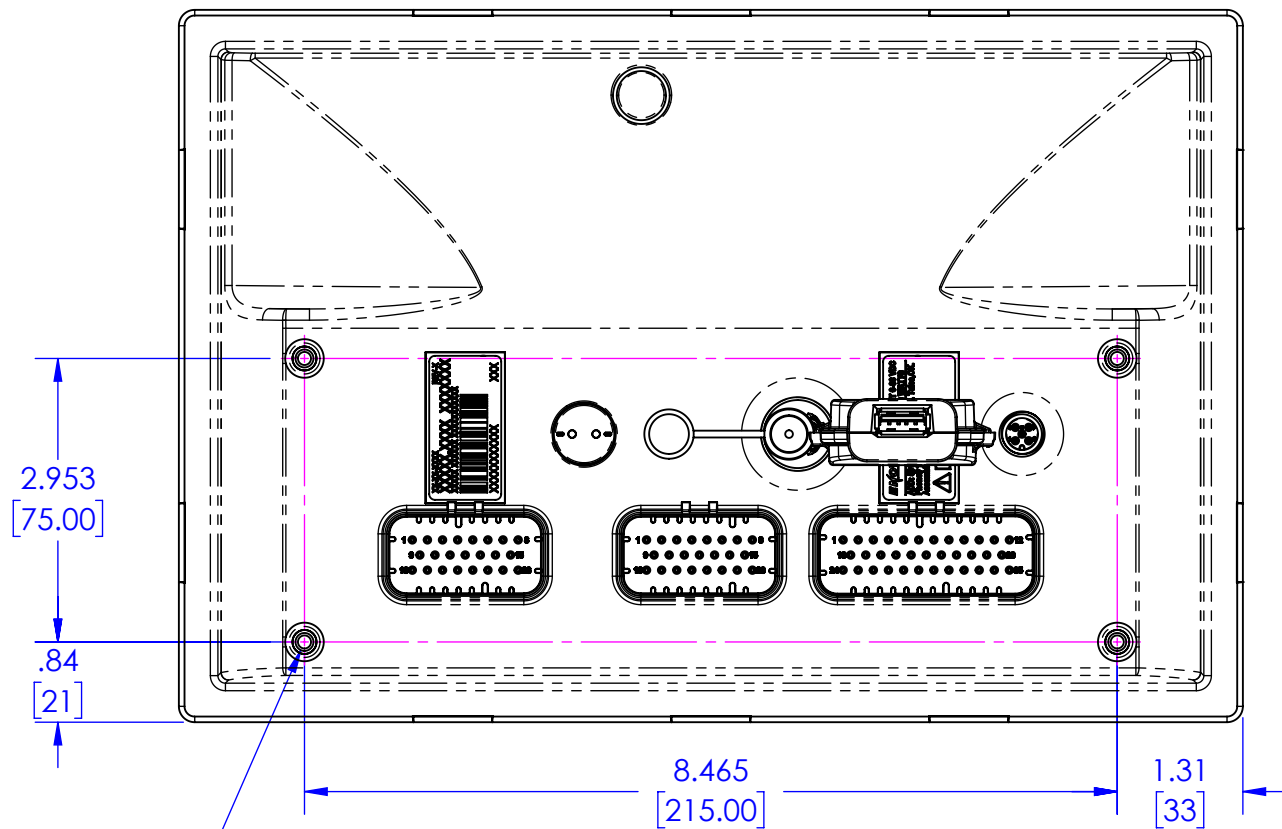
REVISIONS			DATE (YYYY.MM.DD)
ZONE	REV.	ECO#	DESCRIPTION
-	A-	C01918	INITIAL PRODUCTION RELEASE
-	B-	C02428	CHANGED OPERATING TEMPERATURE, STORAGE TEMPERATURE & VIBRATION SPEC. ON SHEET 2
-	C-	C03446	REVISED TO SHOW OPTIONAL PRODUCT CONFIGURATIONS



PORTRAIT ORIENTATION



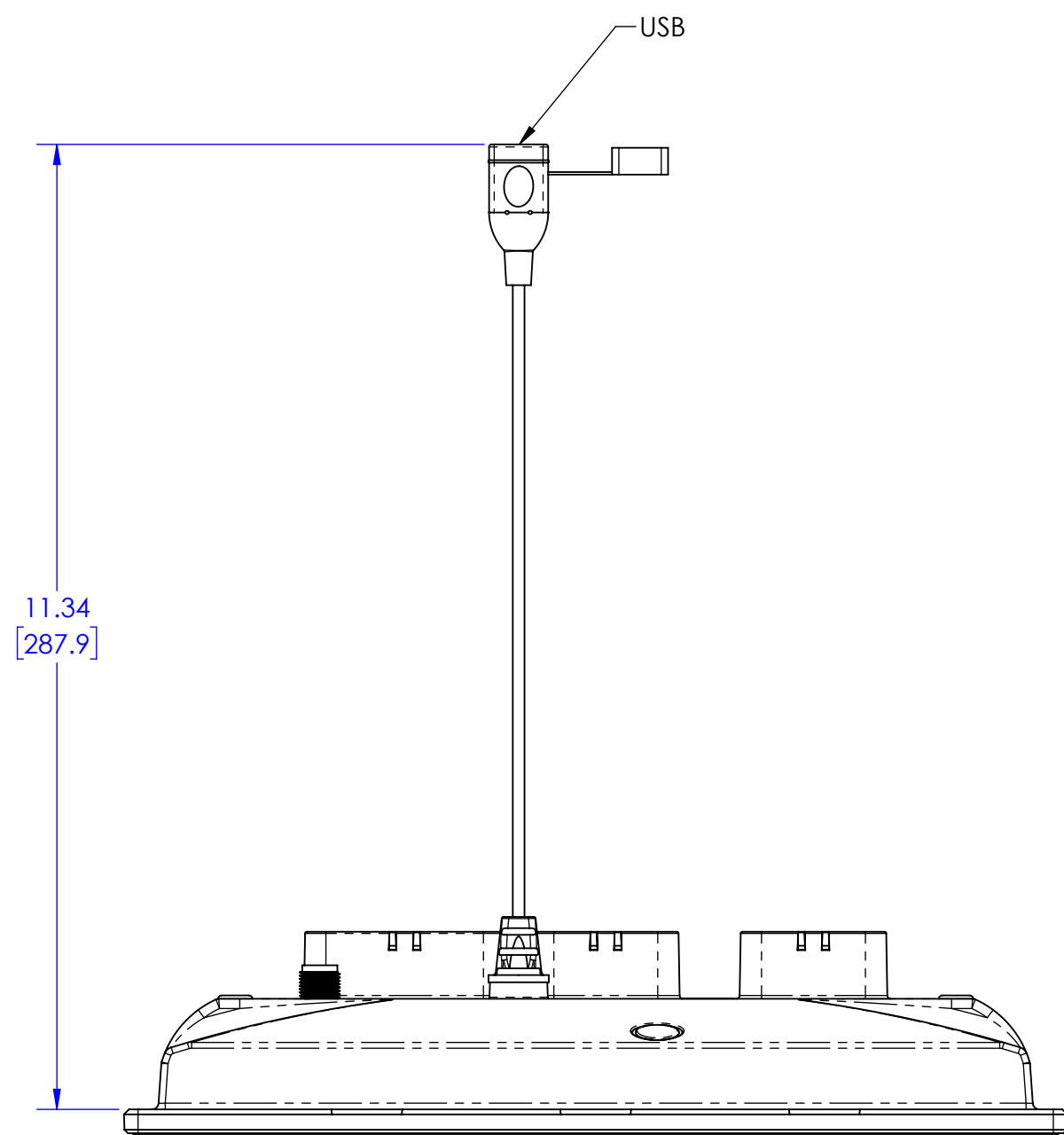
4X 8-32 UNC - 2B ∇ .50 [12.7]



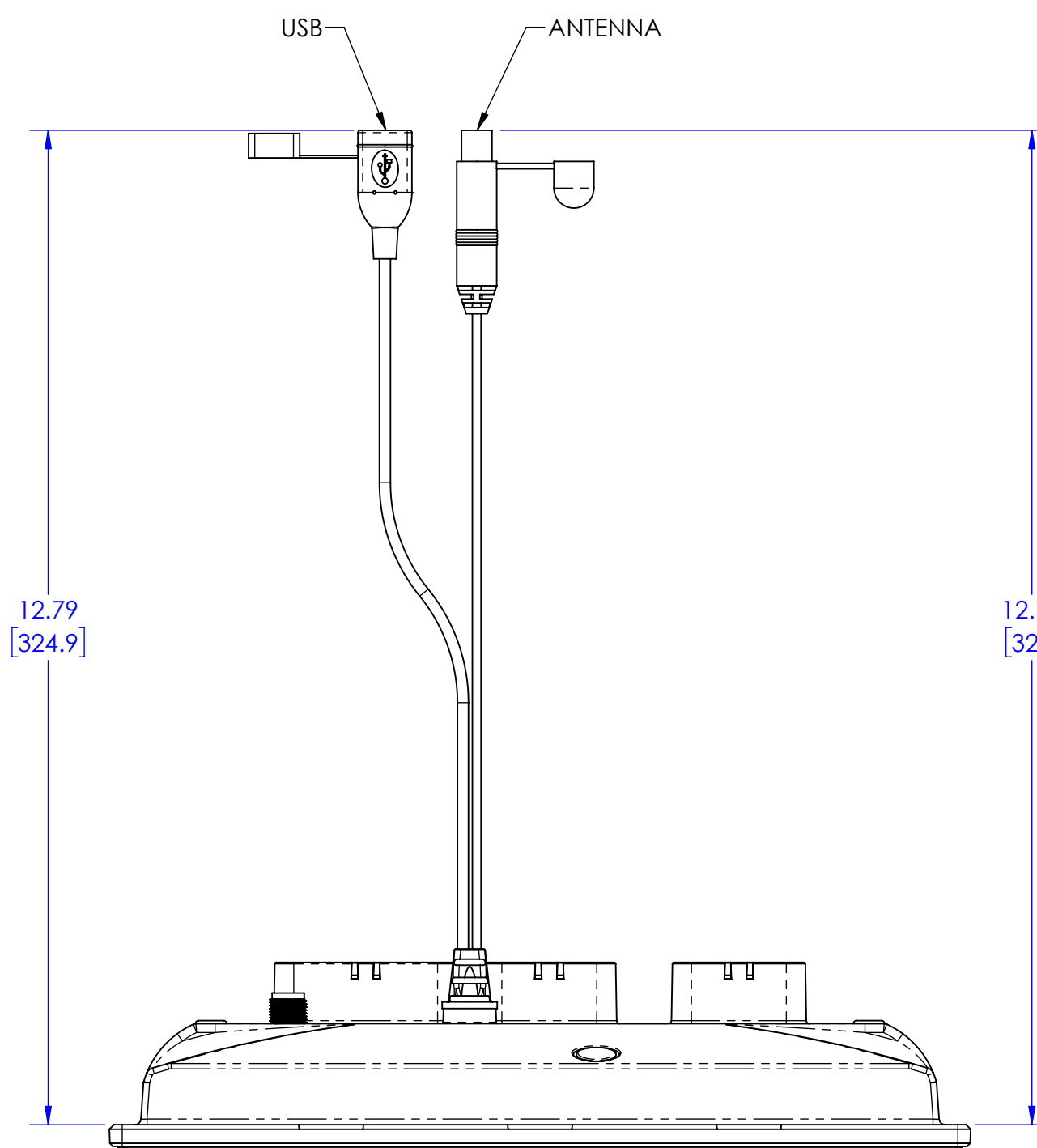
PHYSICAL DIMENSION SPECIFICATIONS

- NOTES:
- ALL DIMENSIONS ARE FOR REFERENCE ONLY.
 - SEE SHEET 2 FOR OPTIONAL PIGTAIL CONFIGURATIONS.
 - SEE SHEET 3 FOR ELECTRICAL SPECIFICATIONS.
 - SEE SHEET 4 FOR CONNECTOR PIN-OUTS.
 - SEE SHEET 5 FOR PANEL CUTOUT DIMENSIONS.
 - MOUNTING BRACKET AND HARDWARE KIT AVAILABLE.

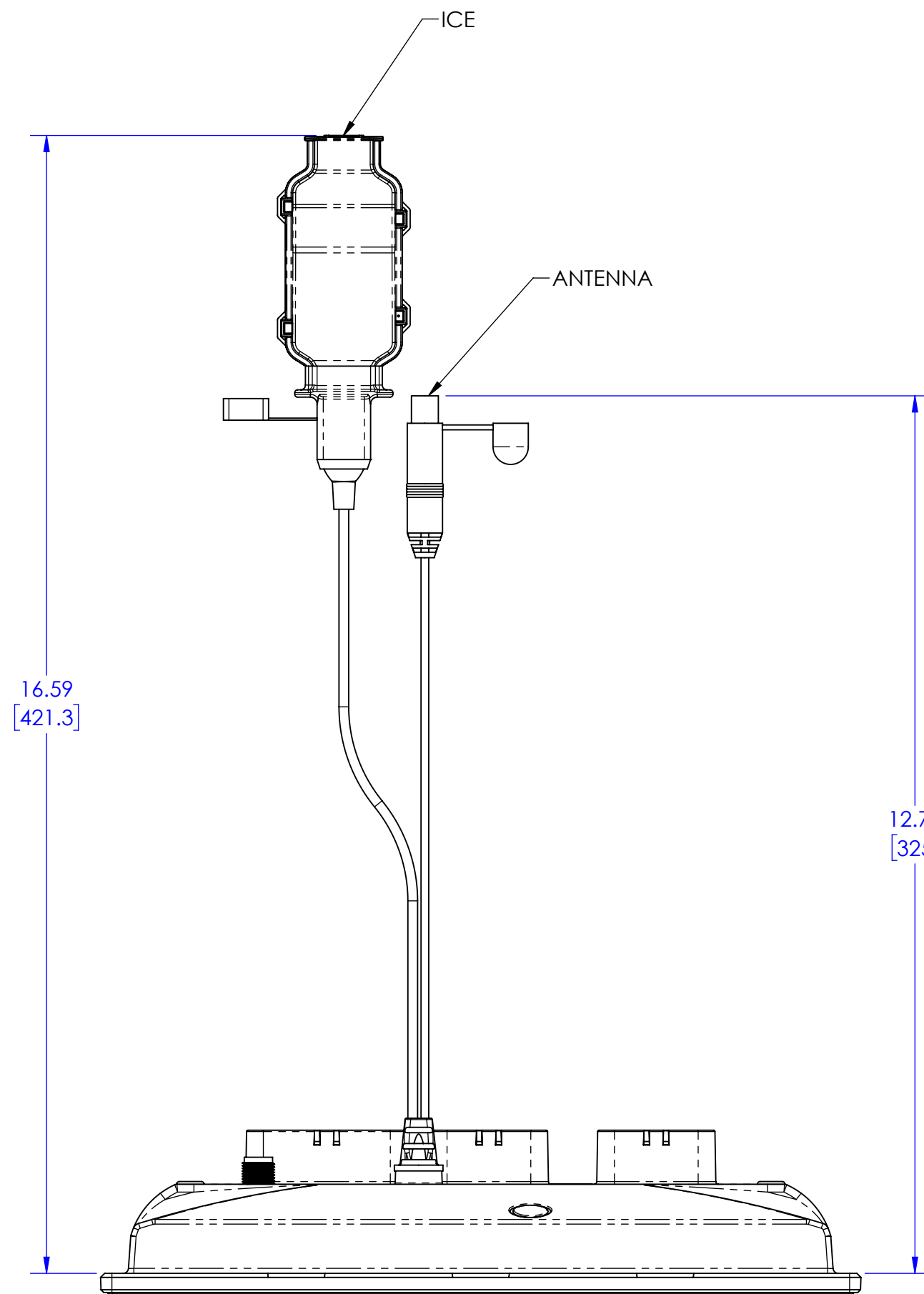
UNLESS OTHERWISE SPECIFIED PRODUCE PART FROM CAD MODEL 78020118.SLDASM. ALL NON-TOLERANCED DIMENSIONS ARE BASIC TO THE CAD MODEL. REFER TO THE DRAWING FOR ASSOCIATED TOLERANCES, DATUMS AND FEATURE CONTROLS.		DO NOT SCALE DRAWING. DIMENSIONING AND TOLERANCING PER ASME Y14.5 - 2009 APPLY.	INCH 						
APPROVALS		DATE (YYYY.MM.DD)	DESCRIPTION						
ENGINEER	C. RAINBOLT	2018.01.24	TECHNICAL SPECIFICATIONS, PV1100 DISPLAY						
DRAWN	J. PRUITT	2018.01.24							
APPROVED 1	-	-	PART NUMBER			DRAWING NUMBER		REVISION	
			78020118			78-02-0118			
APPROVED 2	-	-	CAD FILE			SCALE		SHEET SIZE	
			78020118.SLDASM			1:2 AND NOTED		A2	
								SHEET 1 OF 5	
								C-	



USB



USB & ANTENNA
(WITH STEREO OPTION)



ICE-15 & ANTENNA
(WITH STEREO & EXTENDED
BLUETOOTH OPTIONS)

**OPTIONAL PIGTAIL
CONFIGURATIONS**

DO NOT SCALE DRAWING. DIMENSIONING AND TOLERANCING PER ASME Y14.5 - 2009 APPLY.		INCH 			
DESCRIPTION TECHNICAL SPECIFICATIONS, PV1100 DISPLAY					
PART NUMBER 78020118		DRAWING NUMBER 78-02-0118		REVISION	
SHEET FILE 78020118.SLDASM		SCALE 1:2 AND NOTED		SHEET SIZE A2	SHEET 2 OF 5
					C-

HOW TO ORDER

PV1100 - X

MODEL
PV1100 = 10.6" DISPLAY

DISPLAY OPTIONS
T = TOUCH/NON-CONNECTED/LANDSCAPE
PT = TOUCH/NON-CONNECTED/PORTRAIT
TCL = TOUCH/CONNECTED/LANDSCAPE
TCP = TOUCH/CONNECTED/PORTRAIT
TCLS = TOUCH/CONNECTED/LANDSCAPE/STEREO
TCPS = TOUCH/CONNECTED/PORTRAIT/STEREO

HARDWARE

- DISPLAY:
10.6" (231.36mm (H) X 138.82mm (V)) LVDS TT LCD with LED backlight
- COLOR:
24-bit color
- RESOLUTION:
1280 X 768 PIXELS
- CONTRAST RATIO:
1000:1 (Typ.)
- BRIGHTNESS:
1000 cd/m2
- DISPLAY SURFACE:
Anti-glare
- TOUCH PANEL:
Glove touch PCAP
- REAL TIME CLOCK:
Li-Ion battery backup
- CONNECTORS:
(2) Ampseal 23 pin
(1) Ampseal 35 pin (TCLS,TCPS)
(1) M12 5 pin (TCL,TCP,TCLS,TCPS)
(1) USB Pig tail
(1) Radio Antenna Jack (TCL,TCP,TCLS,TCPS)
- VIDEO INPUTS:
3 NTSC/PAL (Single channel viewable)

COMMUNICATION

- CAN:
(2) CAN 2.0B according to ISO-11898-2; J1939 and CANopen; proprietary messaging
- SERIAL:
(1) RS-485 serial (MODBUS master/slave)
- USB:
(2) USB 2.0 Full Speed Host
- ETHERNET:
1 X Ethernet 10/100 Base-T (TCL,TCP,TCLS,TCPS)
- WIFI:
802.11 b/g radio (TCL,TCP,TCLS,TCPS)
- BLUETOOTH:
Fully integrated Bluetooth 2.1 class 1 (TCL,TCP,TCLS,TCPS)

ELECTRICAL

- OPERATING VOLTAGE:
6 - 36 VDC, reverse polarity protected
- OUTPUTS:
(1) 500mA Switched Low-side
(1) Frequency Out (2Hz - 3KHz)
- INPUTS:
(3) Analog 0-5VDC, 4-20mA, or resistive, 10-bit resolution
(5) Discrete digital, active-high
(1) Frequency In (2Hz - 10kHz) 5Vpk-pk min, 120Vpk-pk max

ENVIRONMENTAL

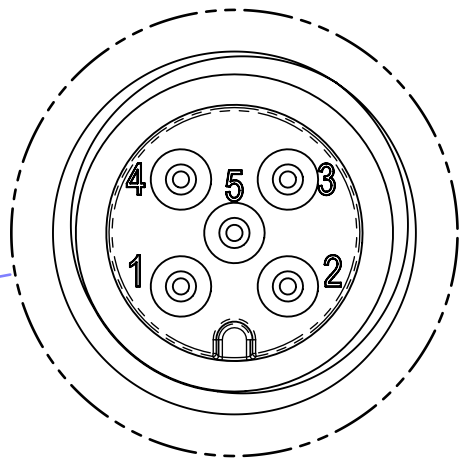
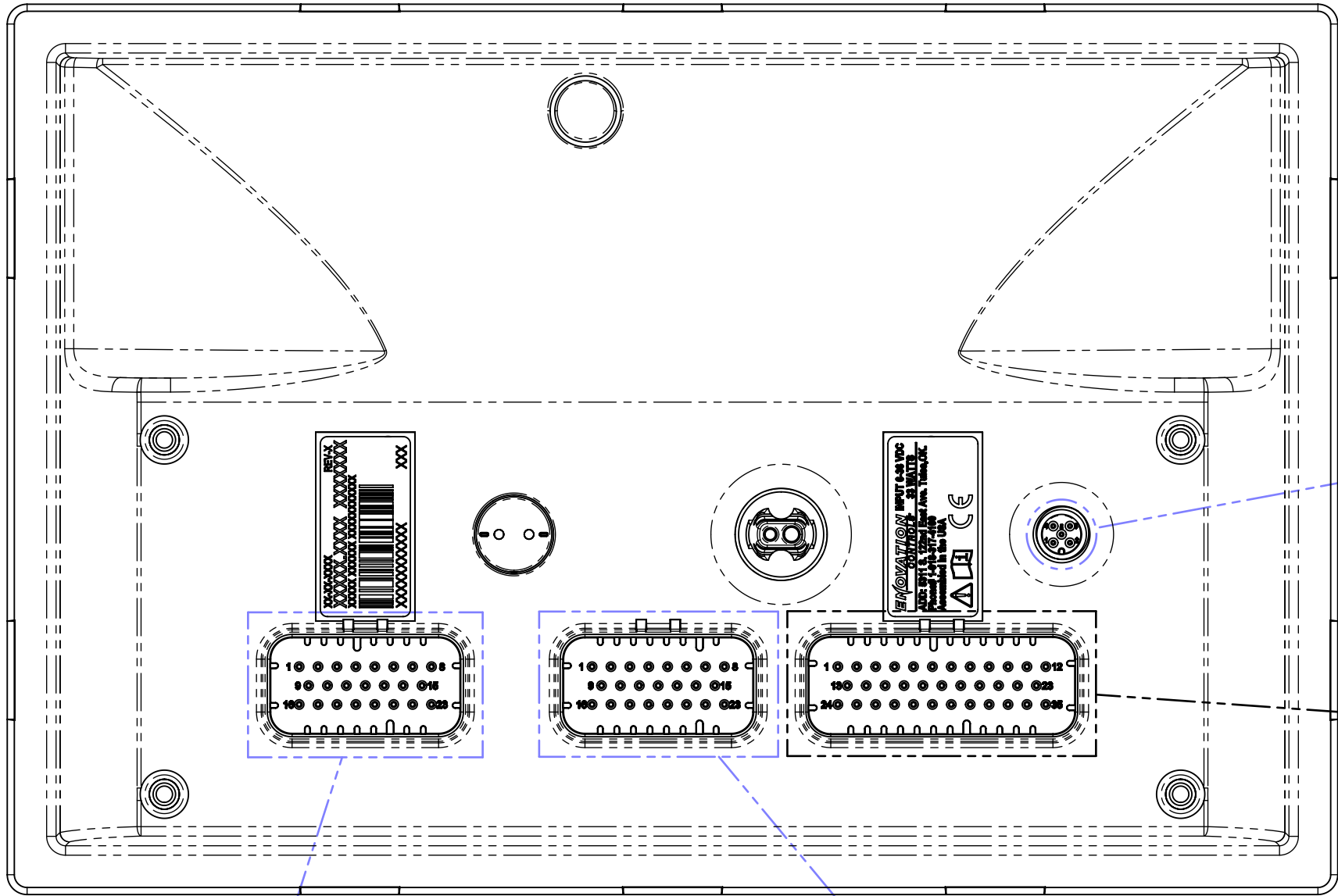
- OPERATING:
-40°C to +70°C [-40°F to +158°F]
- STORAGE:
-40°C to +85°C [-40°F to +185°F]
- PROTECTION:
IP66 and IP67, front and back, for outdoor use
- VIBRATION:
ISO 15003: 3.9 Grms (10 - 350Hz), 3 axis
- SHOCK:
±50G in 3 axis
- EMC/EMI:
SAE J1113, ISO 13766, CE per 2014/30/EU

INFOTAINMENT (TCLS,TCPS)

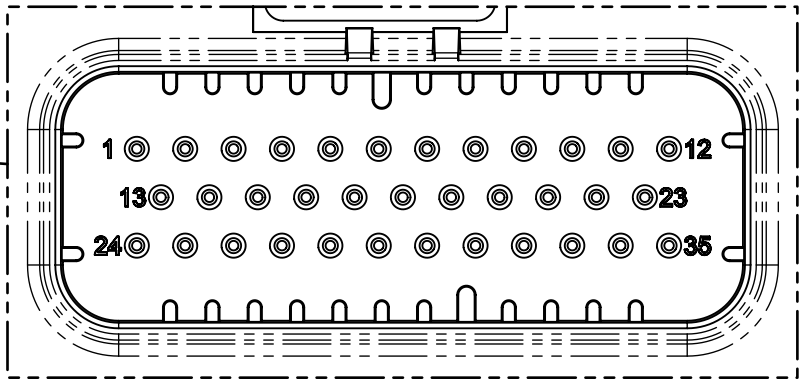
- STEREO:
(4) Outputs (20Hz-20KHz)
(1) Subwoofer (configurable, 30Hz-250Hz)
(2) Auxiliary Inputs
(3) Amp Turn On/Accessory
- FM TUNER:
Frequency Range: 87.9MHz-107.9MHz
Usable Sensitivity: 16dBµV typical @ 26dB SINAD
50dB Quieting Sensitivity: 14dBµV
Alternate Channel Selectivity: 70dB
Stereo Separation: 35dB (1kHz)
Frequency Response: 30Hz-15Hz
- AM TUNER:
Frequency Range: 530kHz-1710kHz
Usable Sensitivity: 50dBµV
- WX TUNER:
Frequency Range: 162.4MHz-162.55MHz
Usable Sensitivity: 50dBµV
- USB MEDIA:
MP3, M4A Playback
- BLUETOOTH:
Audio Streaming

ELECTRICAL & ENVIRONMENTAL SPECIFICATIONS

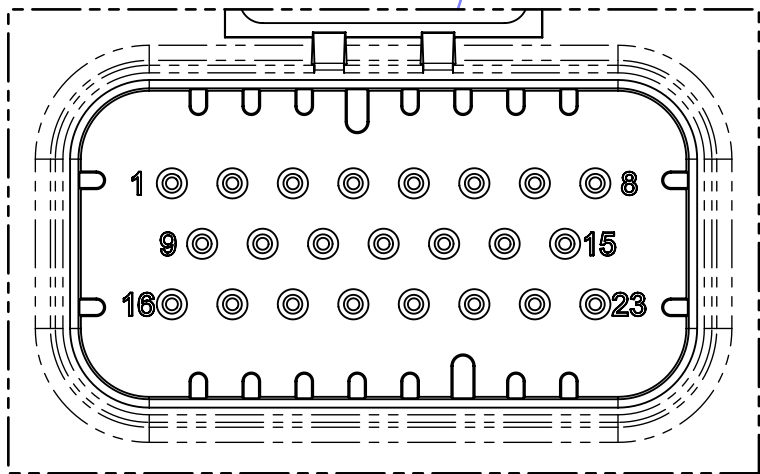
DO NOT SCALE DRAWING. DIMENSIONING AND TOLERANCING PER ASME Y14.5 - 2009 APPLY.	INCH			
				
DESCRIPTION				
TECHNICAL SPECIFICATIONS, PV1100 DISPLAY				
PART NUMBER		DRAWING NUMBER		REVISION
78020118		78-02-0118		C-
CAD FILE		SCALE	SHEET SIZE	
78020118.SLDASM		1:5 AND NOTED	A3	3 OF 5



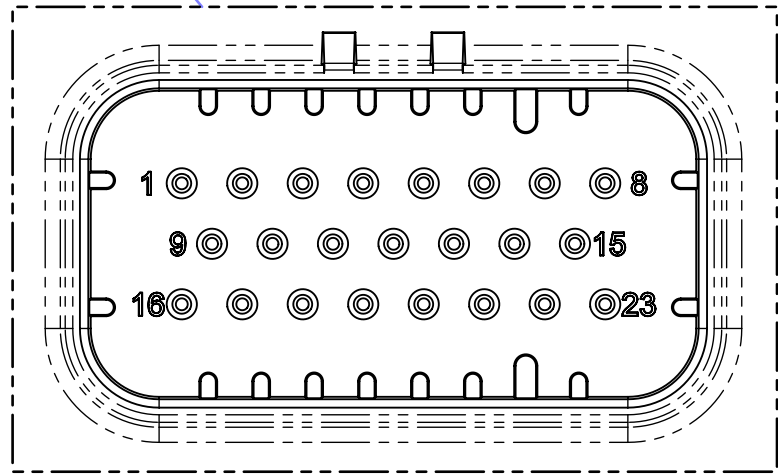
5-POS CONNECTOR-C (MATING CONNECTOR M-12, 5 POS, A-CODED, PLASTIC KNURLED ONLY)						
PIN #	FUNCTION					
	T	PT	TCL	TCP	TCLS	TCPS
1	NO CONNECTION		Ethernet TX+			
2	NO CONNECTION		Ethernet RX+			
3	NO CONNECTION		Ethernet TX-			
4	NO CONNECTION		Ethernet RX-			
5	NO CONNECTION		Ethernet Ground			



35-POS CONNECTOR-D (MATING CONNECTOR AMP 776164-1 BLACK)						
PIN #	FUNCTION					
	T	PT	TCL	TCP	TCLS	TCPS
1	No Connect			No Connect		
2	No Connect			No Connect		
3	No Connect			No Connect		
4	No Connect			No Connect		
5	No Connect			Line In 1 Left		
6	No Connect			Line In 1 Left Return		
7	No Connect			Line In 1 Right		
8	No Connect			Line In 1 Right Return		
9	No Connect			Line In 2 Left		
10	No Connect			Line In 2 Left Return		
11	No Connect			Line In 2 Right		
12	No Connect			Line In 2 Right Return		
13	No Connect			No Connect		
14	No Connect			No Connect		
15	No Connect			No Connect		
16	No Connect			Line Out 1 Left -		
17	No Connect			Line Out 1 Left +		
18	No Connect			Line Out 4 Left -		
19	No Connect			Line Out 4 Left +		
20	No Connect			Line Out 3 Left -		
21	No Connect			Line Out 3 Left +		
22	No Connect			Line Out 2 Left -		
23	No Connect			Line Out 2 Left +		
24	No Connect			Amp Turn On 3		
25	No Connect			Amp Turn On 2		
26	No Connect			Amp Turn On 1		
27	No Connect			No Connect		
28	No Connect			Line Out 1 Right -		
29	No Connect			Line Out 1 Right +		
30	No Connect			Line Out 4 Right -		
31	No Connect			Line Out 4 Right +		
32	No Connect			Line Out 3 Right -		
33	No Connect			Line Out 3 Right +		
34	No Connect			Line Out 2 Right -		
35	No Connect			Line Out 2 Right +		



23-POS CONNECTOR-A (MATING CONNECTOR AMP 770680-1 BLACK)						
PIN #	FUNCTION					
	T	PT	TCL	TCP	TCLS	TCPS
1	Digital Input1					
2	Analog Input 3					
3	Analog Input 2					
4	Analog Input 1					
5	CAN 1 Low					
6	CAN 1 High					
7	Battery					
8	Ground					
9	Analog Input 3 Ground					
10	Analog Input 2 Ground					
11	Analog Input 1 Ground					
12	Digital Input 3					
13	Digital Input 2					
14	Frequency Output 1					
15	Ignition Input					
16	No Connect					
17	No Connect					
18	CAN 2 Low					
19	CAN 2 High					
20	Digital Input 4					
21	Digital Input 5					
22	Digital Output					
23	Frequency Output 2					



23-POS CONNECTOR-B (MATING CONNECTOR AMP 770680-4 GRAY)						
PIN #	FUNCTION					
	T	PT	TCL	TCP	TCLS	TCPS
1	Video Input 1					
2	Video Input 2					
3	Video Input 3					
4	RS485 High					
5	RS485 Low					
6	No Connect				Line Out 1 Right -	
7	No Connect				Line Out 1 Right +	
8	No Connect				Line Out 1 Left -	
9	Video Input 1 Ground					
10	Video Input 2 Ground					
11	Video Input 3 Ground					
12	No Connect					
13	Frequency Input					
14	Frequency Return					
15	No Connect				Line Out 1 Left +	
16	USB D-					
17	USB D+					
18	USB 5v					
19	USB Ground					
20	USB Shield					
21	No Connect					
22	No Connect					
23	No Connect					

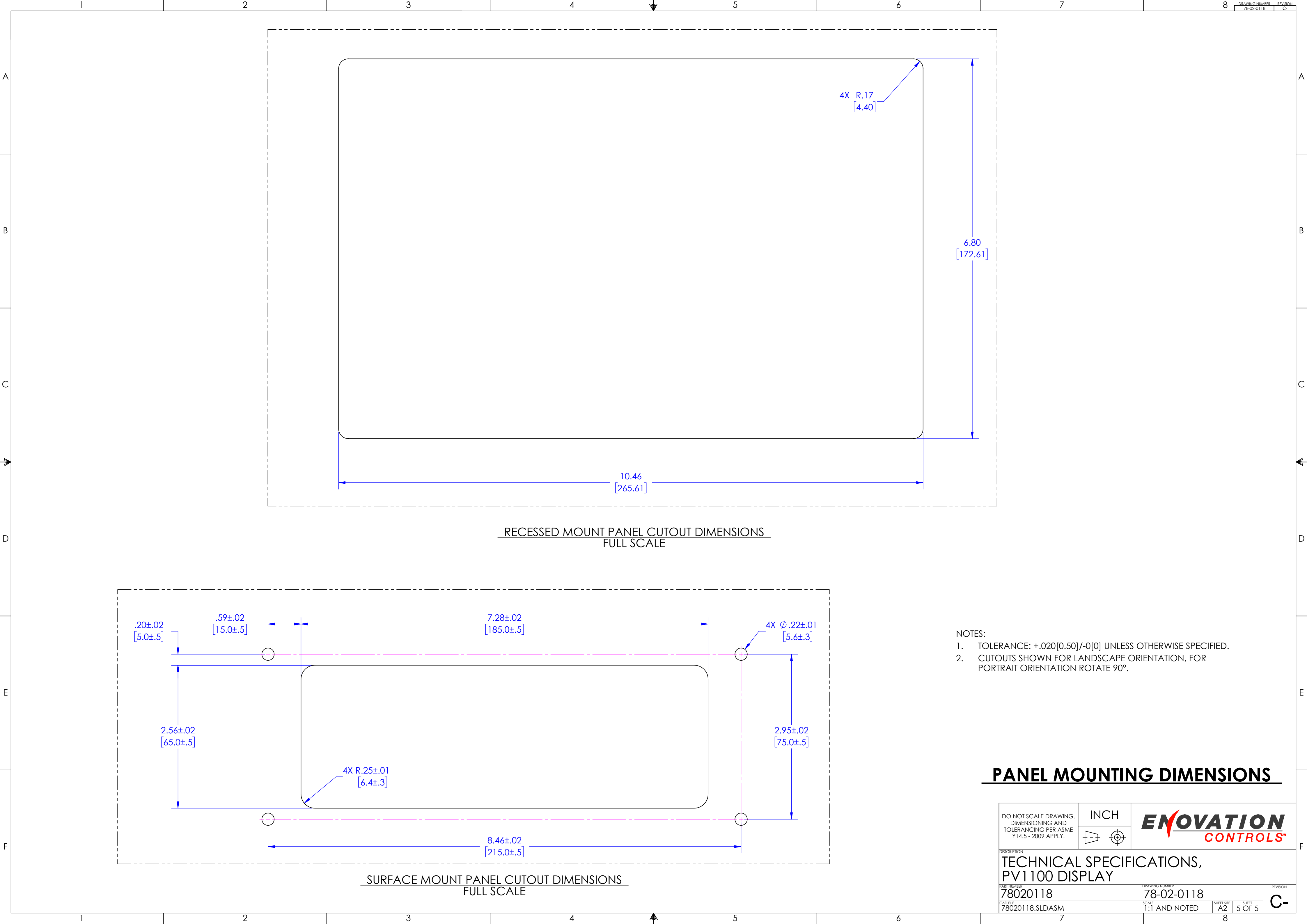
CONNECTOR PIN-OUT SPECIFICATIONS

DO NOT SCALE DRAWING.
DIMENSIONING AND
TOLERANCING PER ASME
Y14.5 - 2009 APPLY.

INCH
[Symbol]



TECHNICAL SPECIFICATIONS,
PV1100 DISPLAY



RECESSED MOUNT PANEL CUTOUT DIMENSIONS
FULL SCALE

SURFACE MOUNT PANEL CUTOUT DIMENSIONS
FULL SCALE

- NOTES:
- TOLERANCE: $+.020[0.50]/-0[0]$ UNLESS OTHERWISE SPECIFIED.
 - CUTOUTS SHOWN FOR LANDSCAPE ORIENTATION, FOR PORTRAIT ORIENTATION ROTATE 90° .

PANEL MOUNTING DIMENSIONS

DO NOT SCALE DRAWING. DIMENSIONING AND TOLERANCING PER ASME Y14.5 - 2009 APPLY.	INCH 	ENOVATION CONTROLS™
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DESCRIPTION						
TECHNICAL SPECIFICATIONS, PV1100 DISPLAY						
PART NUMBER		DRAWING NUMBER			REVISION	
78020118		78-02-0118			C-	
CAD FILE		SCALE	SHEET SIZE	SHEET		
78020118.SLDASM		1:1 AND NOTED	A2	5 OF 5		