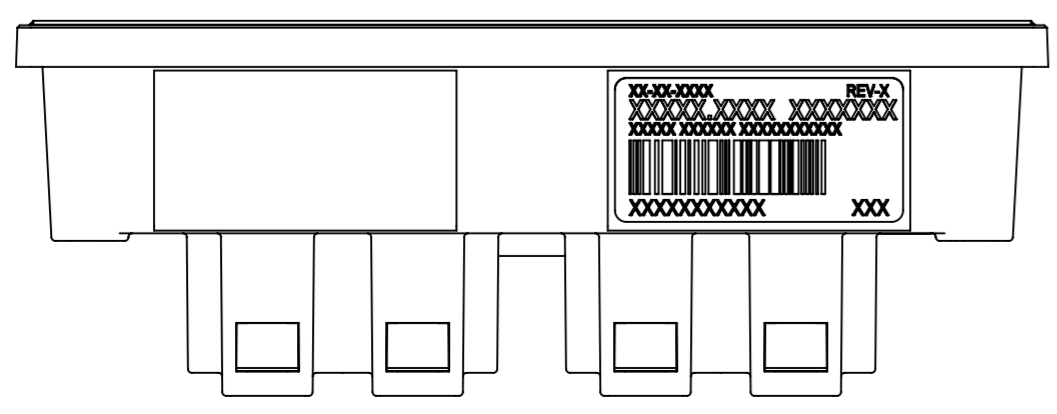
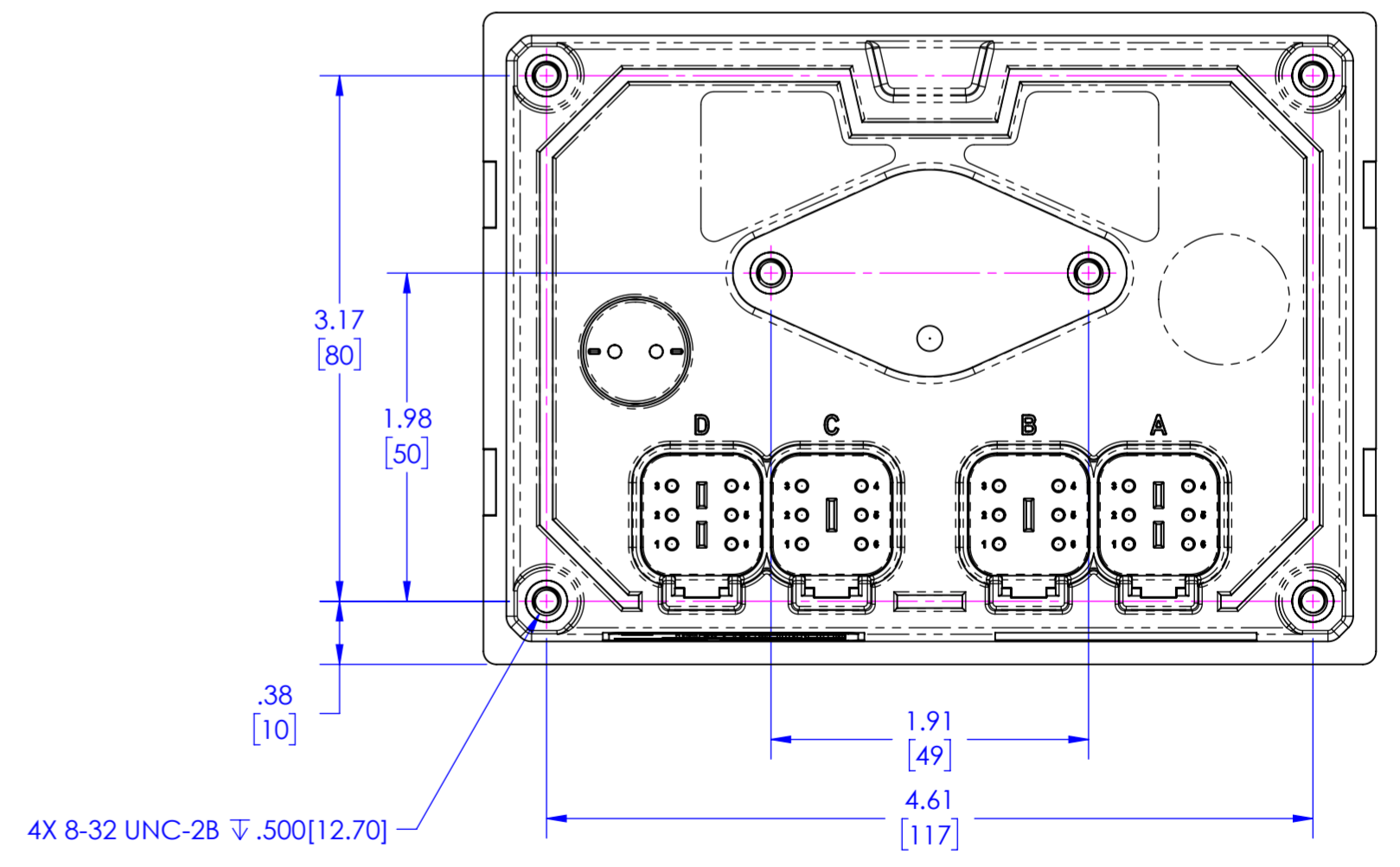
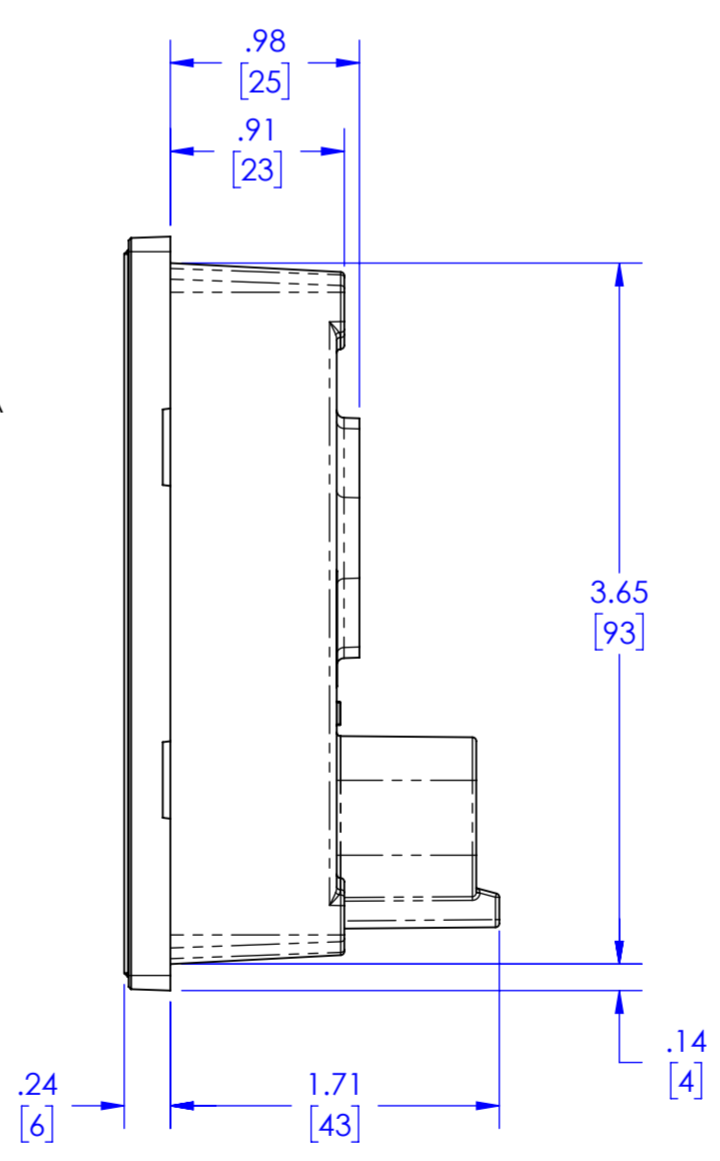
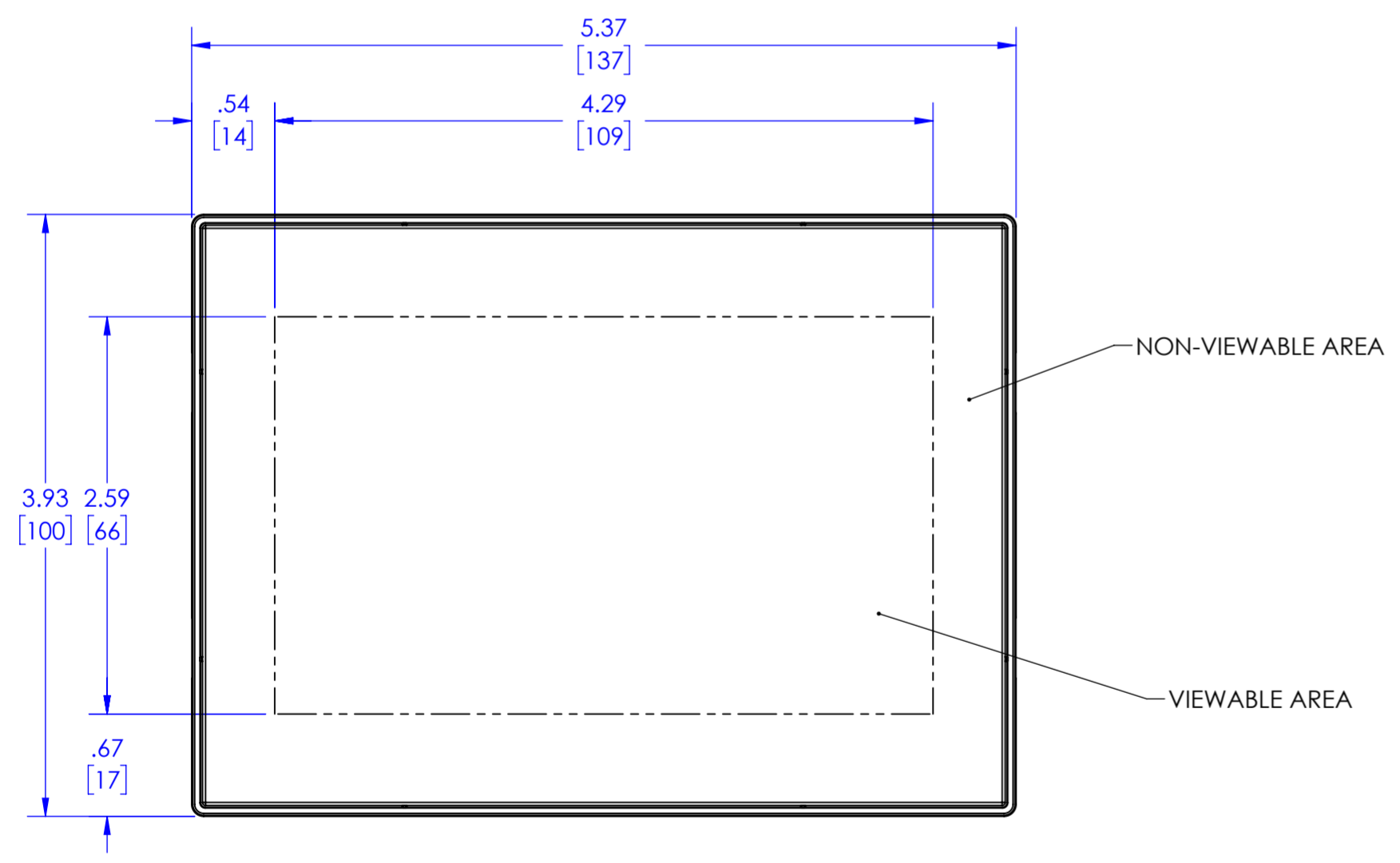
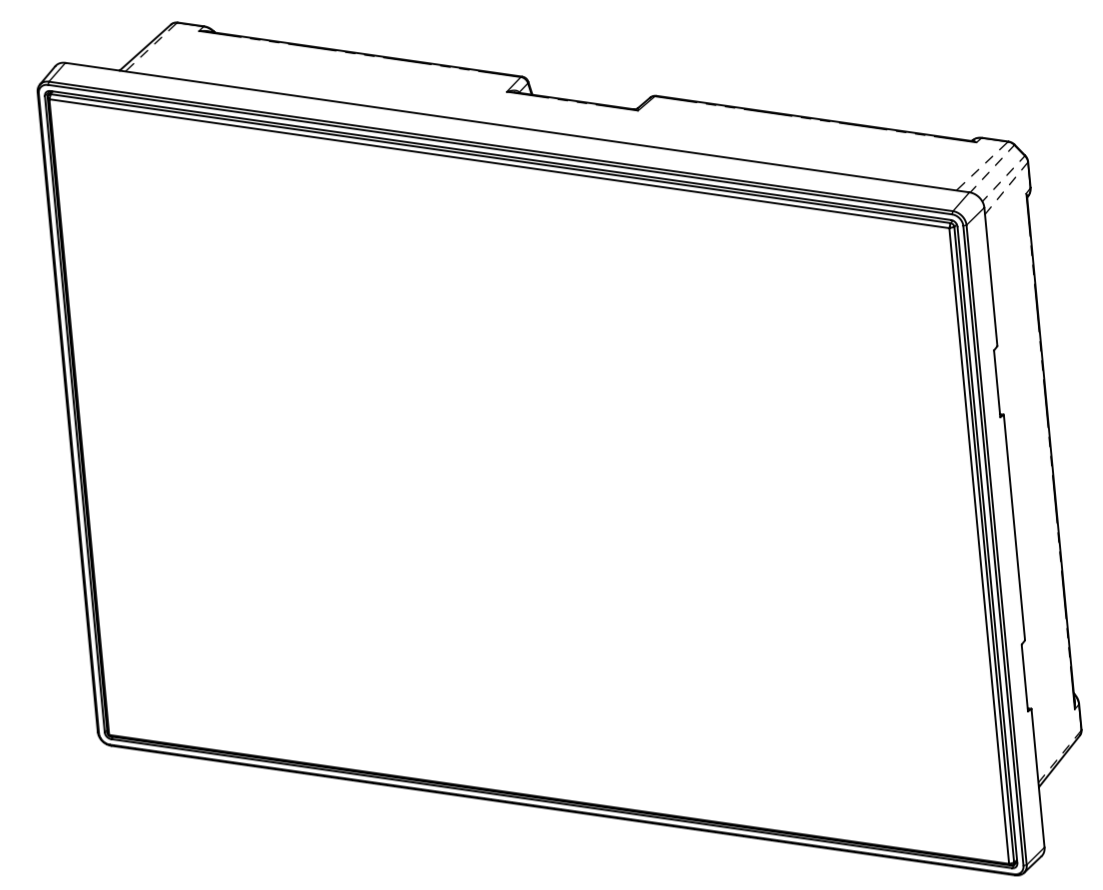
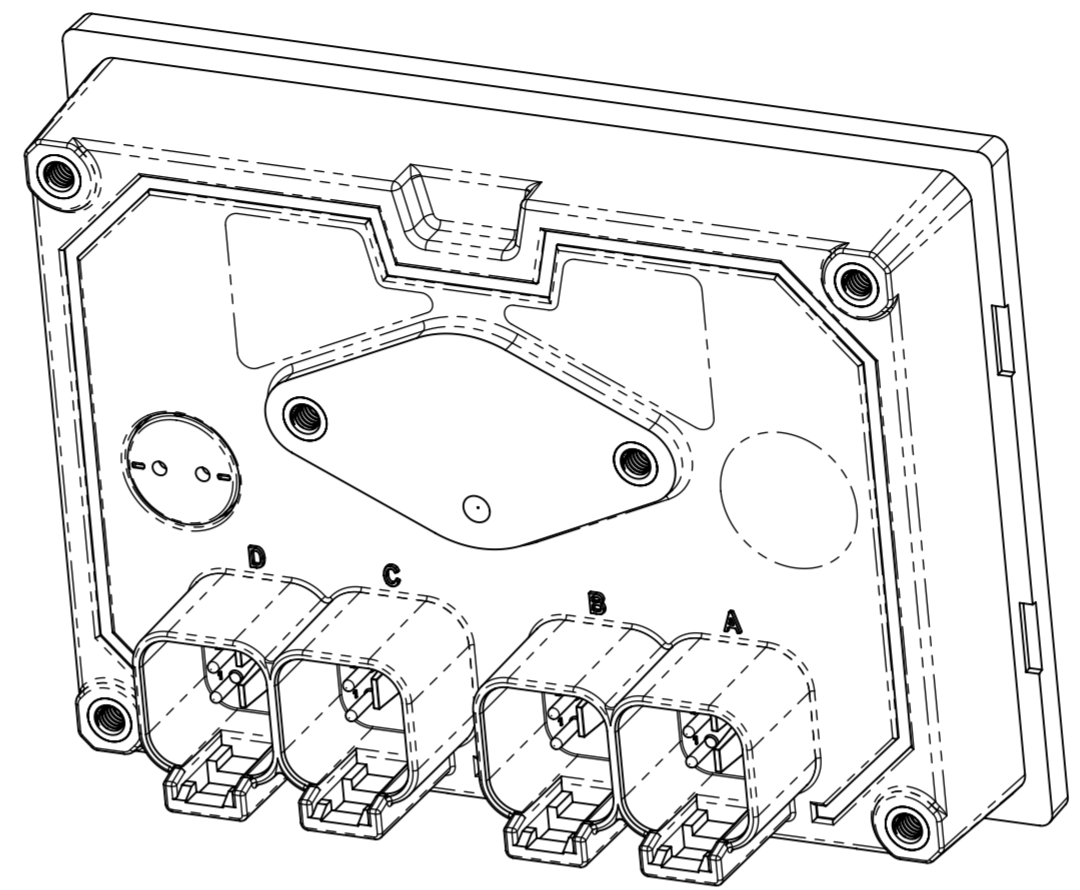
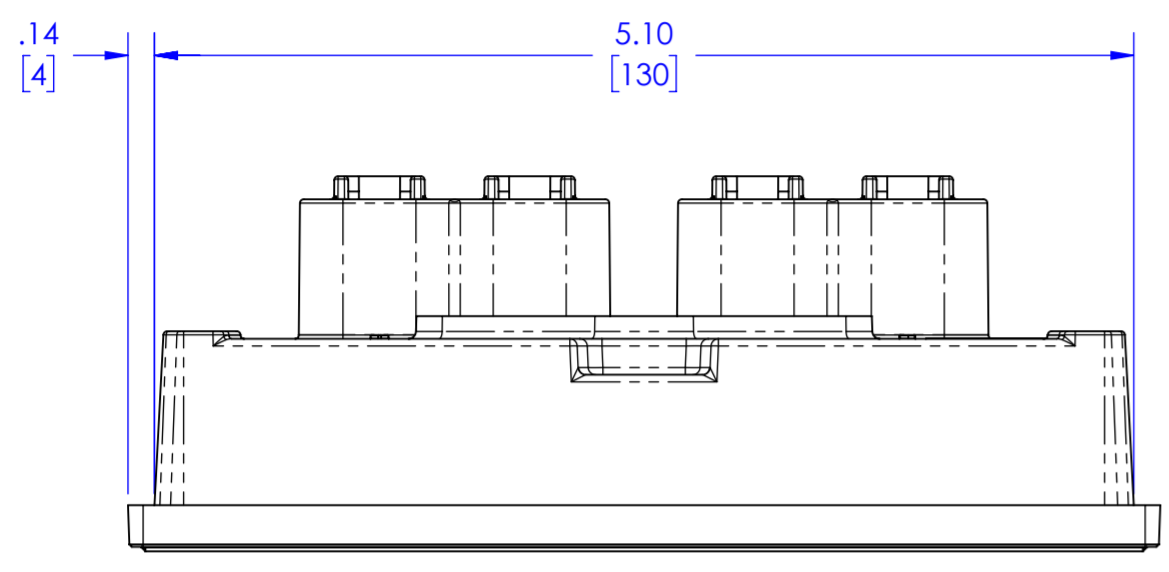


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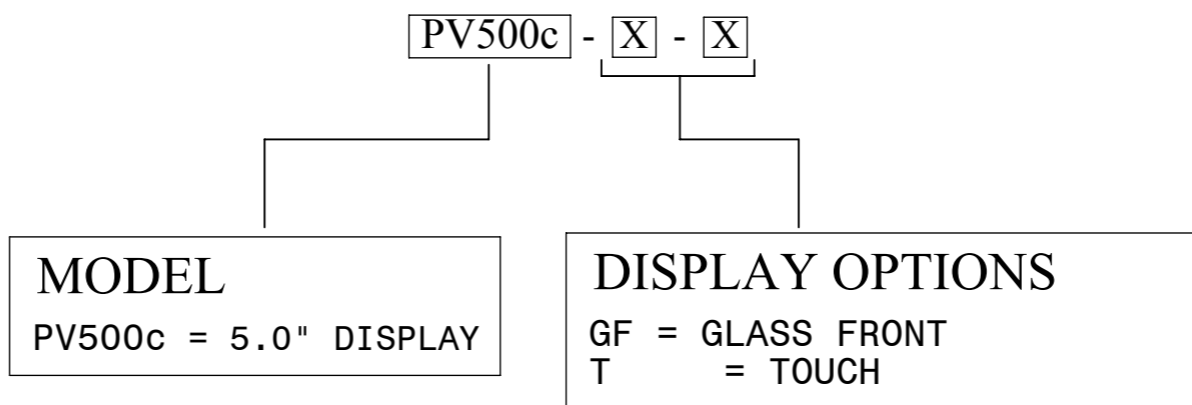
DRAWING NUMBER		REVISION		
78-02-0119		A-		
ZONE	REV.	ECO#	DESCRIPTION	DATE (YYYY.MM.DD)
-	A-	C03703	INITIAL PRODUCTION RELEASE	2019.09.17



- NOTES:
1. ALL DIMENSIONS ARE FOR REFERENCE ONLY.
  2. SEE SHEET 4 FOR PANEL CUTOUT DIMENSIONS.
  3. SEE SHEET 3 FOR PIN-OUTS.
  4. SEE SHEET 2 FOR PRODUCTION SPECIFICATIONS.
  5. MOUNTING BRACKET AND HARDWARE KIT AVAILABLE.

UNLESS OTHERWISE SPECIFIED PRODUCE PART FROM CAD MODEL 78020119.SLDASM. ALL NON-TOLERANCED DIMENSIONS ARE BASIC TO THE CAD MODEL. REFER TO THE DRAWING FOR ASSOCIATED TOLERANCES, DATUMS AND FEATURE CONTROLS.		SHALL MEET REQUIREMENTS OF ENC 4E00711 ENVIRONMENTAL COMPLIANCE SPECIFICATION	METRIC	
DO NOT SCALE DRAWING. DIMENSIONING AND TOLERANCING PER ASME Y14.5 - 2009 APPLY.				
APPROVALS		DATE (YYYY.MM.DD)	DESCRIPTION	
ENGINEER	C. RAINBOLT	2019.09.17	TECHNICAL SPECIFICATIONS, PV500c DISPLAY	
DRAWN	J. PRUITT	2019.09.17		
APPROVED 1	-	-	PART NUMBER	78020119
APPROVED 2	-	-	DRAWING NUMBER	78-02-0119
			CAD FILE	78020119.SLDASM
			SCALE	1:1 AND NOTED
			SHEET SIZE	A2
			SHEET	1 OF 4
				REVISION
				A-

# HOW TO ORDER



## HARDWARE

- DISPLAY:**  
5.0" (108mm (H) X 64.8mm (V)) LCD With LED Backlight
- COLOR:**  
16-bit color
- RESOLUTION:**  
800 X 480 Pixels
- CONTRAST RATIO:**  
1000:1 (Typ.)
- BRIGHTNESS:**  
900 cd/m2 (Typ.)
- DISPLAY SURFACE:**  
Anti-glare
- TOUCH PANEL:**  
Glove touch PCAP
- REAL TIME CLOCK:**  
Li-Ion battery backup
- CONNECTORS:**  
4 DEUTSCH 6 PIN DT
- VIDEO INPUTS:**  
2 NTSC/PAL (Single channel viewable)

## COMMUNICATION

- CAN:**  
(2) CAN 2.0B according to ISO-11898-2; j1939; proprietary messaging
- SERIAL:**  
(1) RS-485 serial (MODBUS master/slave)
- USB:**  
(1) USB 2.0 Full Speed Host

## ELECTRICAL

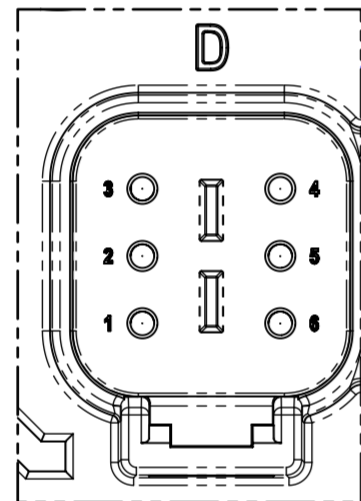
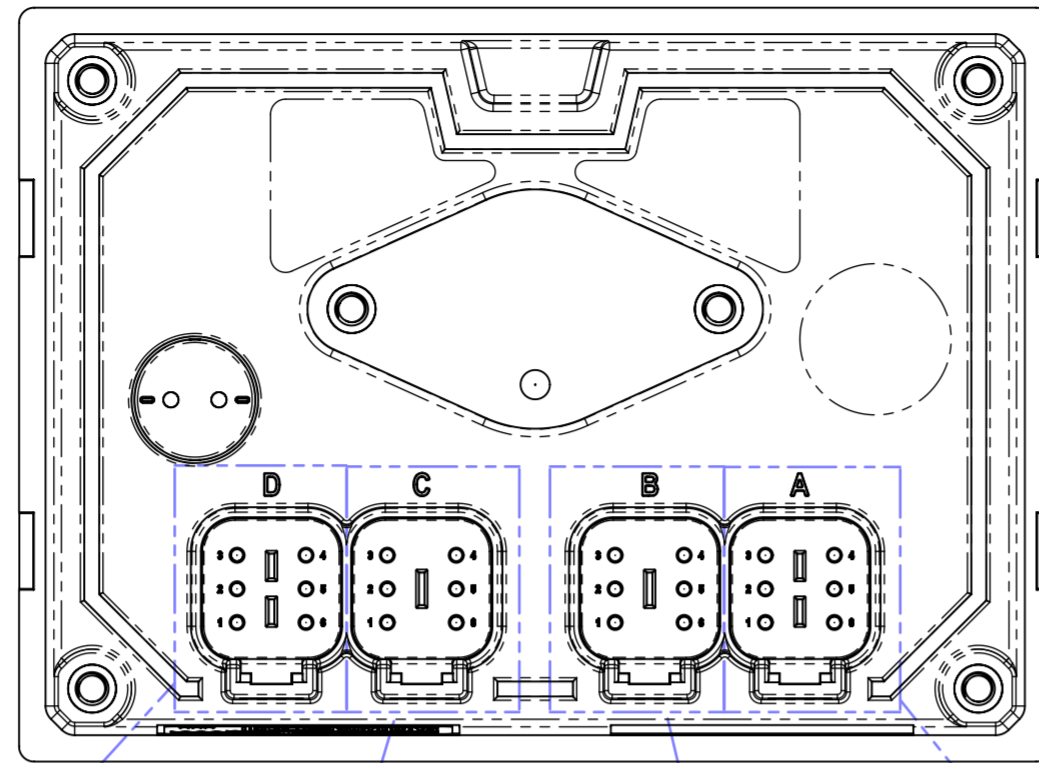
- OPERATING VOLTAGE:**  
6 - 36 VDC, reverse polarity protected
- OUTPUTS:**  
(2) 500mA Switched Low-side
- INPUTS:**  
(1) Analog 0-5VDC, 4-20mA, or resistive, 10-bit resolution  
(2) Discrete digital, active-high

## ENVIRONMENTAL

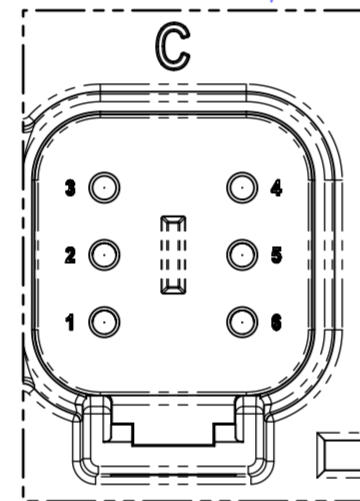
- OPERATING TEMPERATURE:**  
-40°C to +70°C [-40°F to +158°F]
- STORAGE TEMPERATURE:**  
-40°C to +85°C [-40°F to +185°F]
- PROTECTION:**  
IP66 and IP67, front and back, for outdoor use
- VIBRATION:**  
ISO 15003: 3.4 Grms (5 - 2000Hz), 3 axis
- SHOCK:**  
±50G in 3 axis
- EMC/EMI:**  
SAE J1113, ISO 13766, CE per 2017/30/EU

## TECHNICAL SPECIFICATIONS

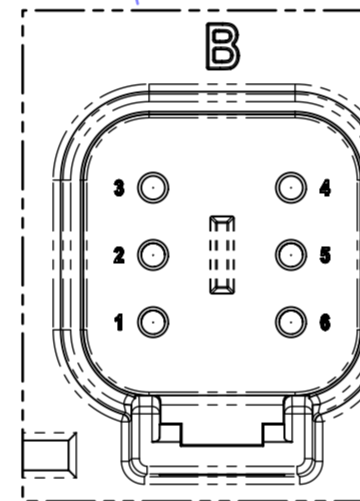
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DO NOT SCALE DRAWING. DIMENSIONING AND TOLERANCING PER ASME Y14.5 - 2009 APPLY.				
DESCRIPTION <b>TECHNICAL SPECIFICATIONS, PV500c DISPLAY</b>				
PART NUMBER <b>78020119</b>		DRAWING NUMBER <b>78-02-0119</b>		REVISION <b>A-</b>
CAD FILE 78020119.SLDASM		SCALE 1:1 AND NOTED	SHEET SIZE A3	SHEET 2 OF 4



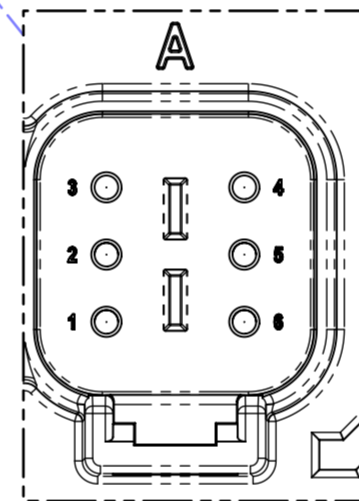
6-POS CONNECTOR-D	
PIN #	FUNCTION
1	VIDEO 1 GROUND
2	VIDEO 2 GROUND
3	RS485 LOW
4	RS485 HIGH
5	VIDEO IN 2
6	VIDEO IN 1



6-POS CONNECTOR-C	
PIN #	FUNCTION
1	DIGITAL IN 1
2	CAN 2 HIGH
3	CAN 2 LOW
4	DIGITAL OUT 2
5	ANALOG IN 1
6	GROUND



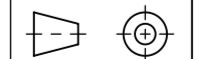
6-POS CONNECTOR-B	
PIN #	FUNCTION
1	BATTERY
2	CAN 1 HIGH
3	CAN 1 LOW
4	DIGITAL OUT 1
5	IGNITION
6	GROUND



6-POS CONNECTOR-A	
PIN #	FUNCTION
1	USB 5V
2	USB D+
3	USB D-
4	USB ID
5	USB SHIELD
6	USB GROUND

SHALL MEET REQUIREMENTS OF  
ENC 4E00711 ENVIRONMENTAL  
COMPLIANCE SPECIFICATION

METRIC



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

**ENOVATION**  
CONTROLS

DESCRIPTION  
**TECHNICAL SPECIFICATIONS, PV500c  
DISPLAY**

PART NUMBER  
**78020119**

DRAWING NUMBER  
**78-02-0119**

CAD FILE  
78020119.SLDASM

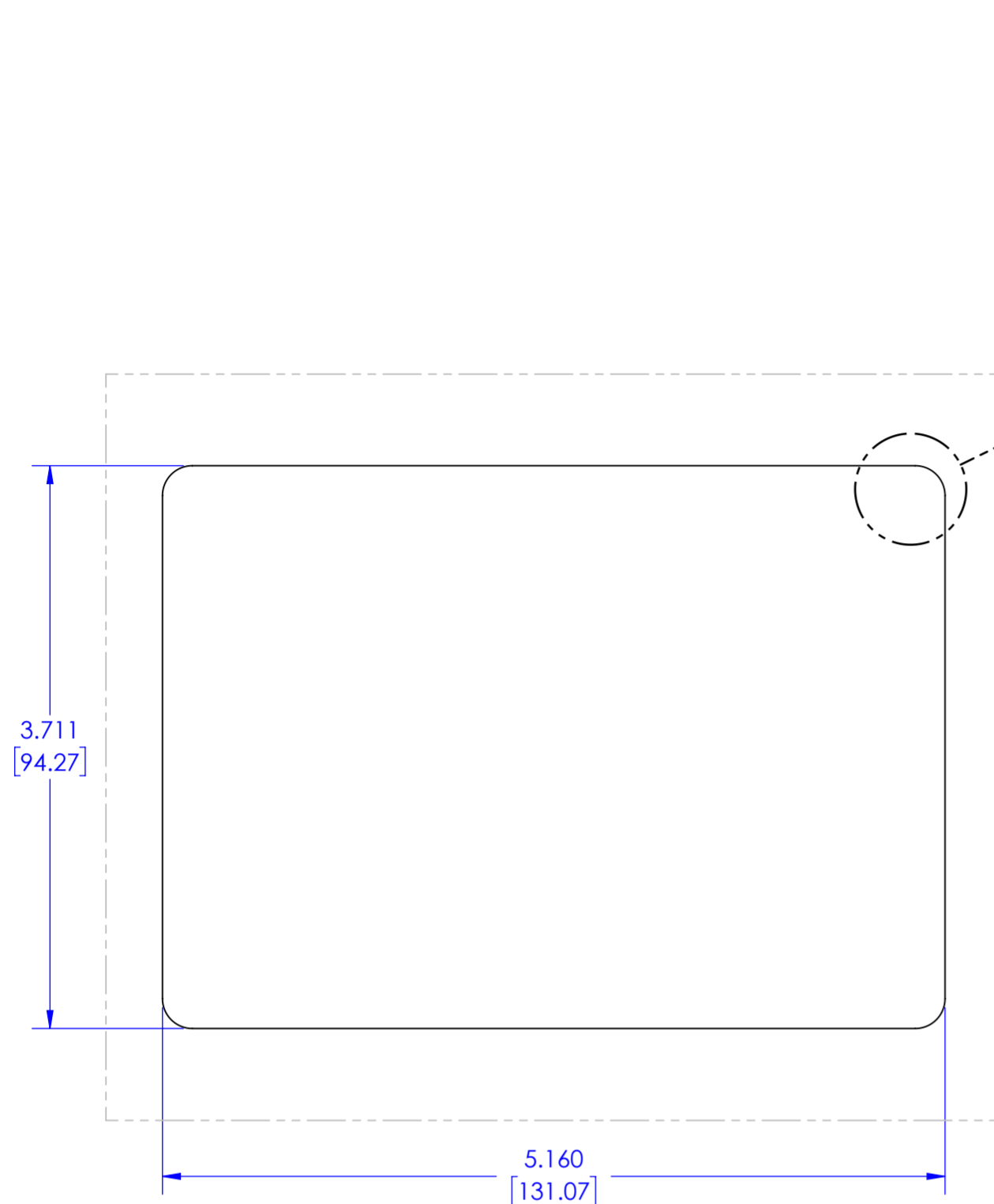
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SHEET SIZE  
A2

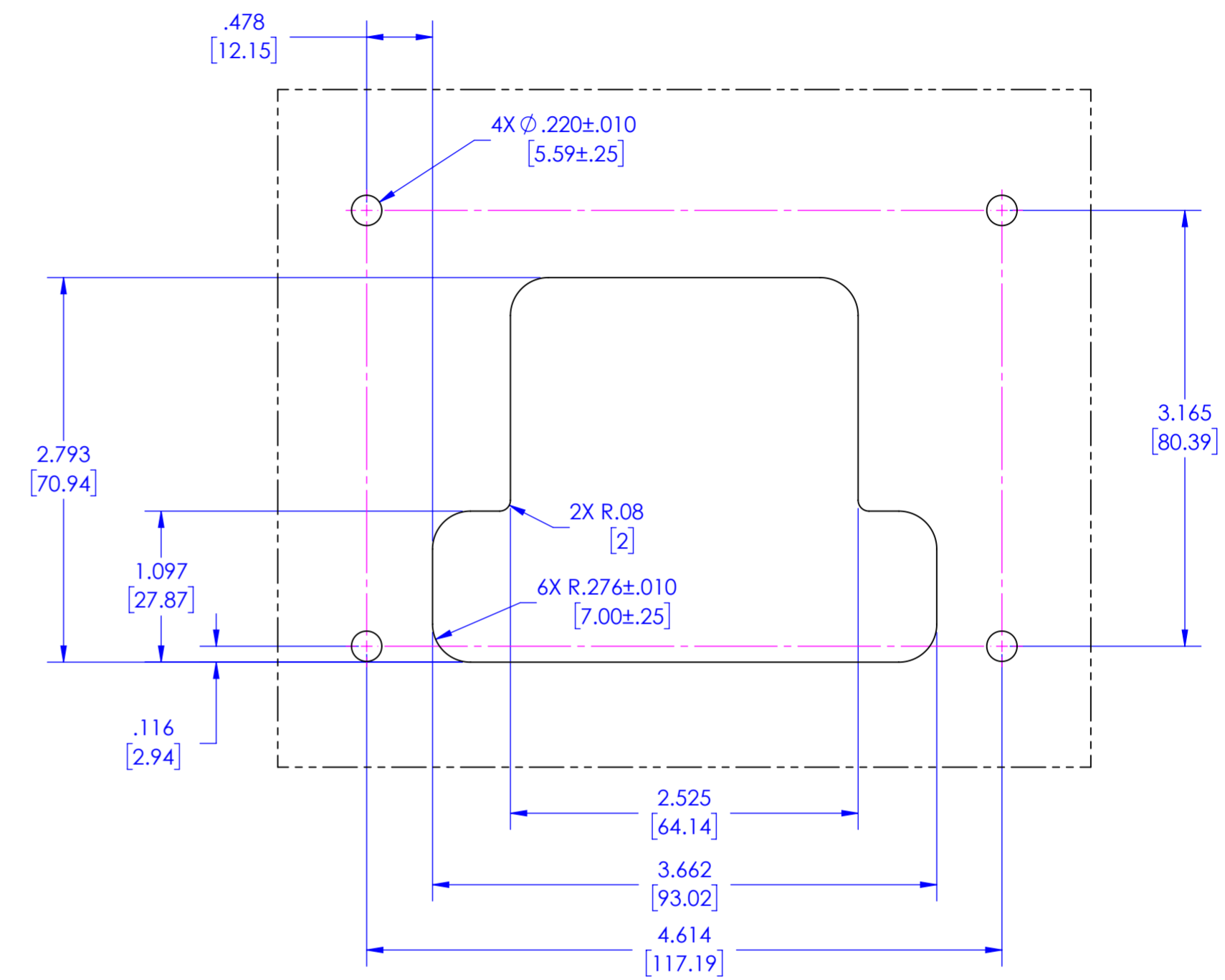
SHEET  
3 OF 4

REVISION

**A-**



RECESSED MOUNT PANEL CUTOUT DIMENSIONS  
FULL SCALE



SURFACE MOUNT PANEL CUTOUT DIMENSIONS  
FULL SCALE

TOLERANCE: +.020[0.51]/-0[0] UNLESS OTHERWISE SPECIFIED

SHALL MEET REQUIREMENTS OF ENC 4E00711 ENVIRONMENTAL COMPLIANCE SPECIFICATION		METRIC	
DO NOT SCALE DRAWING. DIMENSIONING AND TOLERANCING PER ASME Y14.5 - 2009 APPLY.			
DESCRIPTION: <b>TECHNICAL SPECIFICATIONS, PV500c DISPLAY</b>			
PART NUMBER: <b>78020119</b>	DRAWING NUMBER: <b>78-02-0119</b>	REVISION: <b>A-</b>	
CAD FILE: 78020119.SLDASM	SCALE: 1:1 AND NOTED	SHEET SIZE: A2	SHEET 4 OF 4