

REV	EC#	DESCRIPTION	DATE	BY	APP'D
A	E	DRAWN	09-10-2019	GM	AH

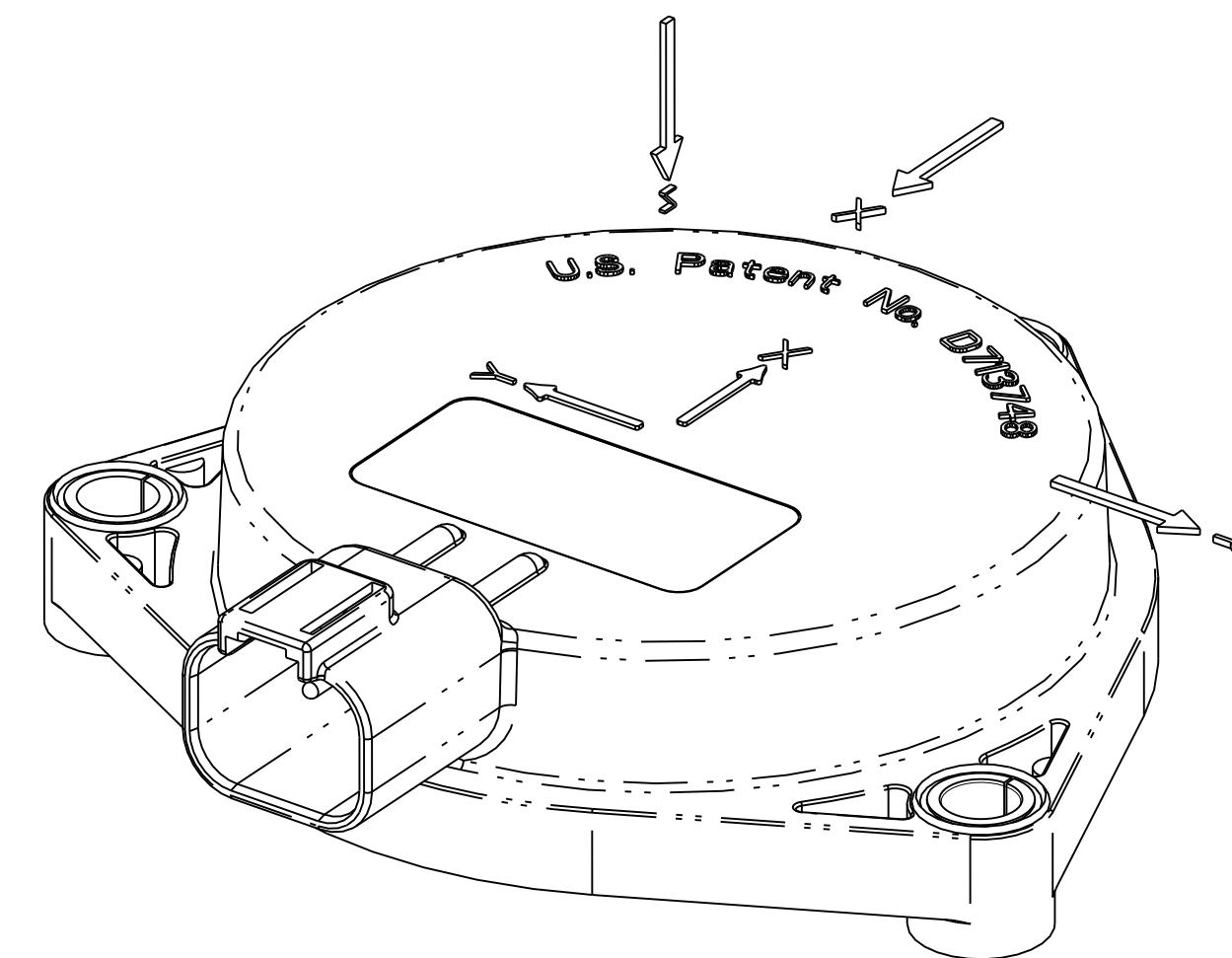
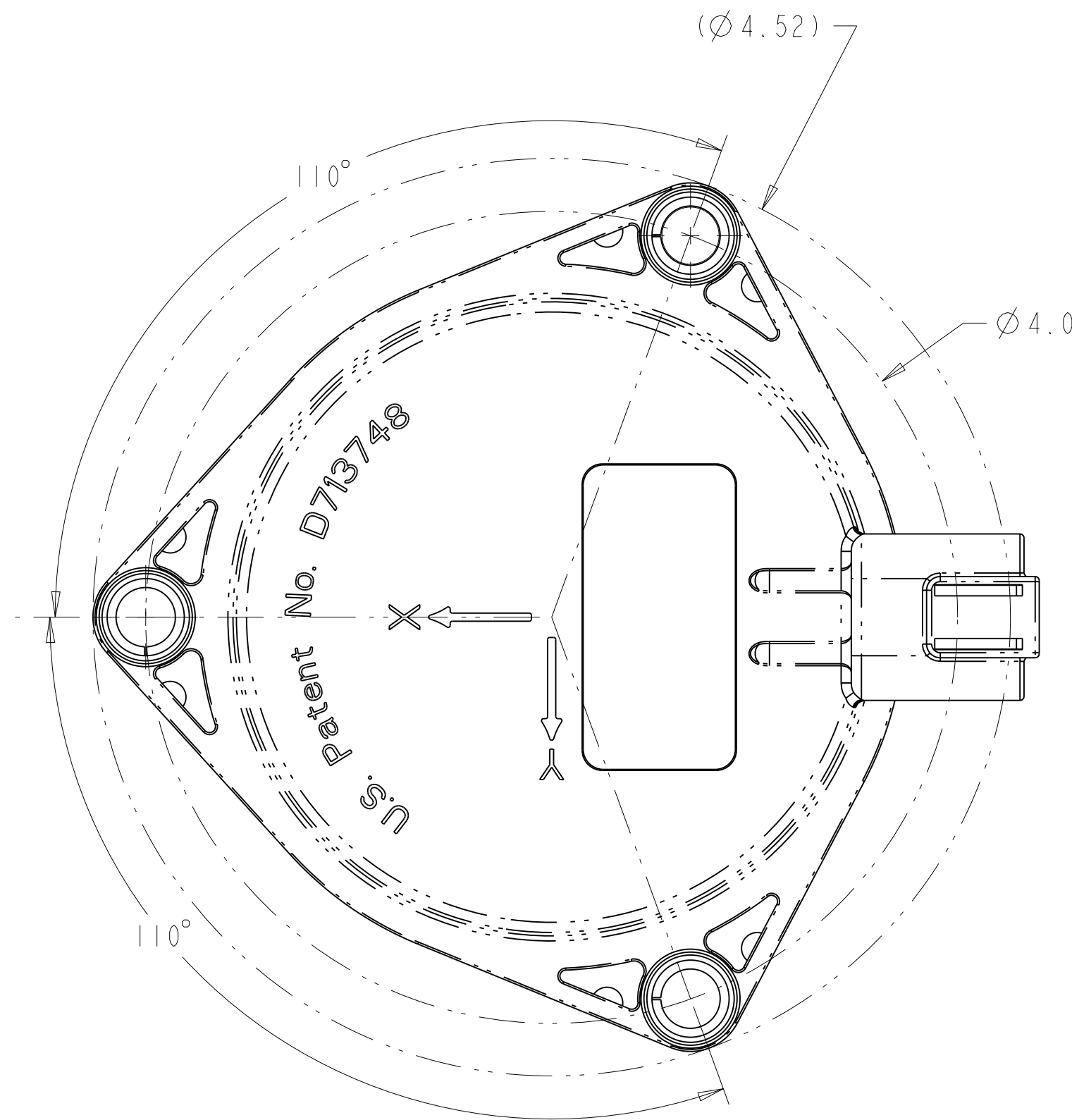
NOTES:

GENERAL:

1. SENSOR TYPE: UTS-ID (IMPACT DETECTION)
2. ACCELERATION RANGE: ± 16 g
ANGULAR RATE RANGE: ± 2000 dps
3. OUTPUT TYPE: CAN SAE J1939 (DEFAULT)
4. OPERATING TEMPERATURE: -40°C TO 85°C
5. STORAGE TEMPERATURE: -40°C TO 105°C
6. LABEL LAYOUT:



UTS IOT ± 16 G X,Y,Z
167427 2008040001
PTS ID: ABCDEFG
Made in USA



DIRECTION OF DETECTABLE ACCELERATIONS:
ORTHOGONAL AXES - X, Y & Z (SHOWN ABOVE)
ARROWS POINT POSITIVE DIRECTION OF ACCELERATION
AND CONFORM TO ES-043 CAN MESSAGE SPECIFICATION
(IGNORE ARROWS ON HOUSING)

LABEL TRACEABILITY:

(S)=YYWWLL####
YY=TWO DIGIT YEAR
WW=WEEK OF YEAR NUMBER
LL=04
####=SERIAL NUMBER COUNTER
10-DIGIT TRACABILITY CODE EXAMPLE
210800001

7. PARKER IMPACT SERVICE:

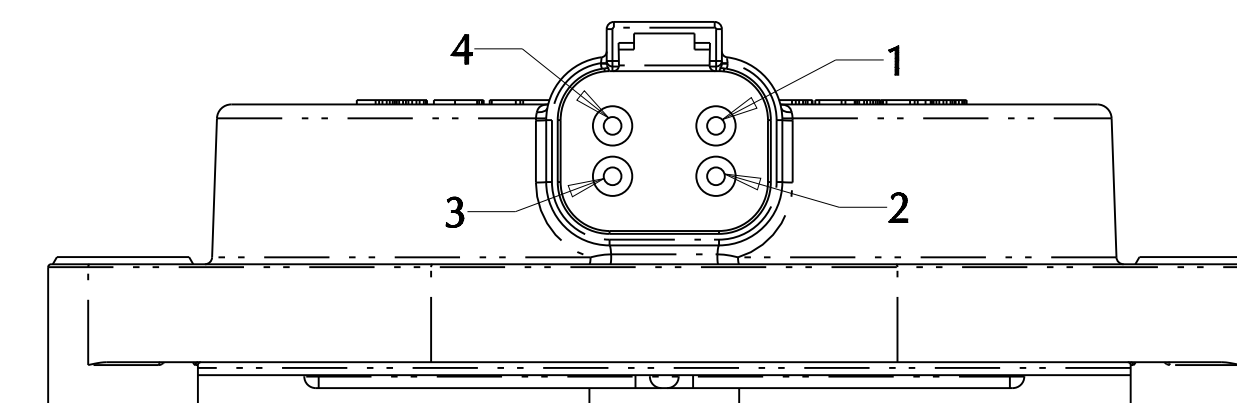
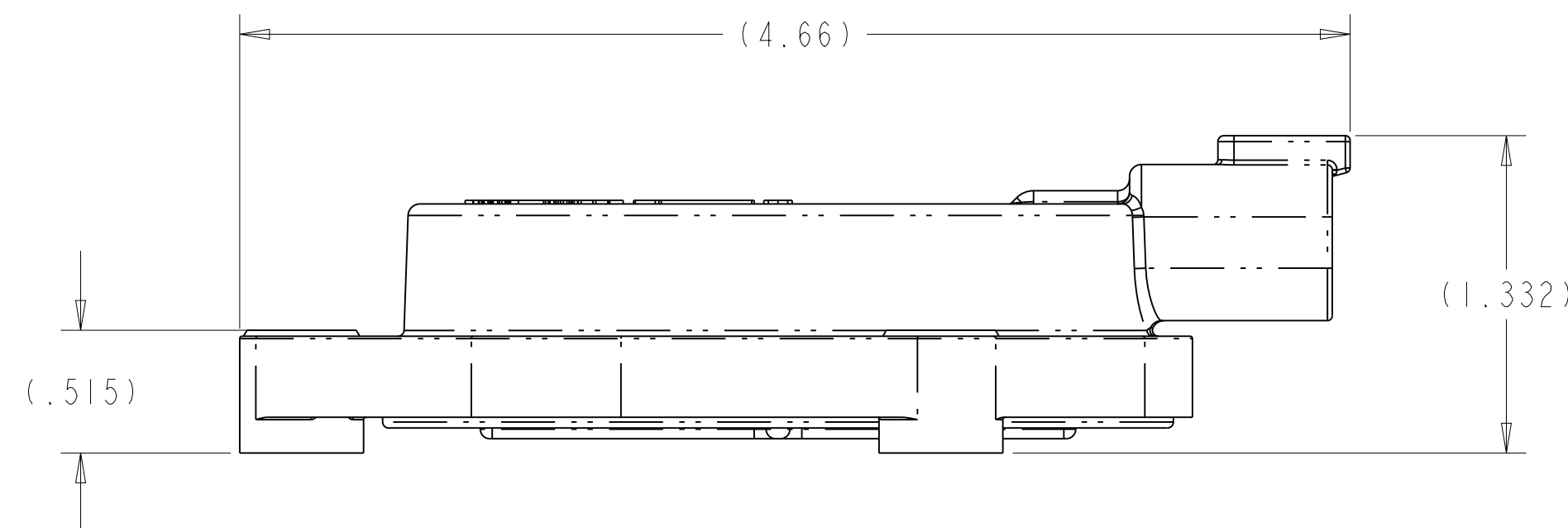
- 7.1. PARKER IMPACT MONITORING SERVICE IS AN OPTIONAL SERVICE TO PARKERS MOBILE IoT SOLUTIONS
- 7.2. IMPACT MONITORING AND REPORTING SERVICES REQUIRES INTEGRATION WITH PARKERS IoT GATEWAY AND IoT PLATFORM SERVICES INCLUDED WITH PART NUMBERS 166033 OR 166035.
- 7.3. IMPACT MONITORING AND REPORTING SERVICES REQUIRES INTEGRATION WITH PARKER IoT ANTENNAS PART NUMBERS 167019 OR 167021
- 7.4. IMPACT MONITORING AND REPORTING SERVICES ARE PROVIDED FOR A 3 YEAR PERIOD AFTER SENSOR INSTALLATION.
- 7.5. IMPACT SERVICES CAN BE EXTENDED ON 1 YEAR INCREMENTS BY ORDERING SERVICE PART NUMBER IOT167427_IDIYR
- 7.6. IMPACT MONITORING AND REPORTING SERVICES ACCESSED VIA PARKER'S MOBILE IoT WEB PORTAL.
8. CE STANDARDS: MATERIAL HANDLING PER EN 61000-6-2, EN 61000-6-4 CONSTRUCTION, EARTH MOVERS, AGRICULTURAL AND FORESTRY VEHICLES PER EN 13309, ISO 13766 and ISO 14982

ELECTRICAL:

9. OPERATING VOLTAGE: 6 VDC TO 36 VDC
10. INPUT CURRENT: 16.5 mA AT 12V TYPICAL
14 mA AT 24V TYPICAL
11. CIRCUIT PROTECTION:
 - 11.1. OVERVOLTAGE: 48 VDC
 - 11.2. REVERSE POLARITY: -48 VDC
 - 11.3. SHORT (CAN-L OR CAN-H): $-V_{BAT}$ AND +58 VDC
 - 11.4. CONDUCTED TRANSIENTS: ISO 7637-2 (24V SYSTEM, LEVEL 4)
ISO 7637-3 (24V SYSTEM, LEVEL 4)
 - 11.5. LOAD DUMP: ISO 7637-2 PULSE 5a (24V SYSTEM, LEVEL 4)
SAE J1113-11 PULSE 5c (24V SYSTEM)

MECHANICAL:

12. INGRESS PROTECTION: IP68 & IP69K
13. MOUNTING BOLT: 1/4"-20
14. RECOMMENDED MOUNTING TORQUE:
NOT TO EXCEED 135 IN-LBS
15. RECOMMENDED MOUNTING ORIENTATION:
ALIGN SENSOR AXES WITH VEHICLE AXES
16. MOUNTING SURFACE: FLATNESS 0.010"
17. MATING CONNECTOR: DEUTSCH DT06-4S
18. TERMINALS: NICKLE
19. MAX IMPACT LOAD: 50G. DIRECT IMPACT TO THE SENSOR NOT RECOMMENDED.



PIN	DESCRIPTION
1	+V BAT
2	-V BAT
3	CAN-L
4	CAN-H

CAN OUTPUT:

20. CAN BUS SPEED: UP TO 500 kbit/s (DEFAULT 250 kbit/s)
21. CAN SOURCE ADDRESS OR NODE ID: 0xE4 (CAN SAE J1939)
22. BROADCAST PGN (IMPACT): 65450 (0xFFAA)
23. CAN TERMINATION RESISTOR: SUB-NODE TERMINATION
24. SEE ES-043 UTS-IOT ENGINEERING CAN MESSAGE SPECIFICATION FOR CAN DETAILS

***** Approved for Release *****

TOLERANCES UNLESS OTHERWISE SPECIFIED		Parker Electronic Controls Division Sensor Business Unit	
INCH	0 \pm .25" .0000 \pm .05" .0000 \pm .02" ANG \pm 1°	DATE: 09-10-2019	REV: GM AH
METRIC	0 \pm .25 .0000 \pm .05 .0000 \pm .02 ANG \pm 1°	QTY: 5000	MATERIAL: N/A
DRAWING UNITS: 1/8 IN		TITLE: VA FNL PARKER UTS-ID IOT 3 YEARS	
DRAWING SCALE: 3:2		REV: 167427-CL	REV: A 1 OF 1