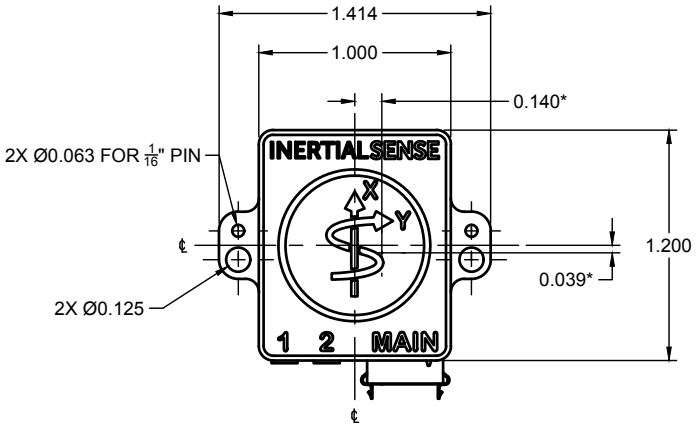
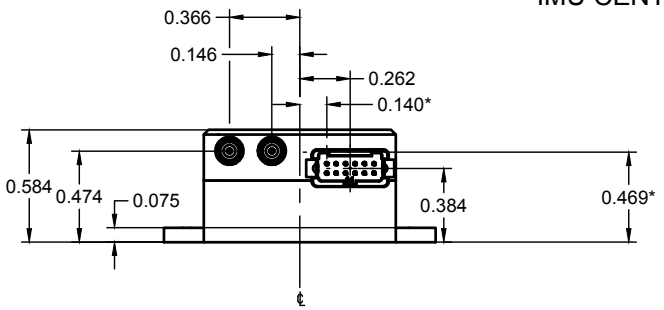
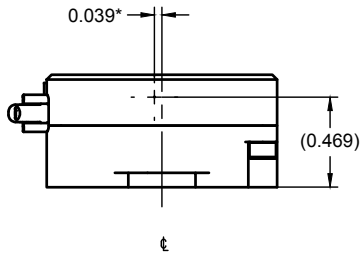
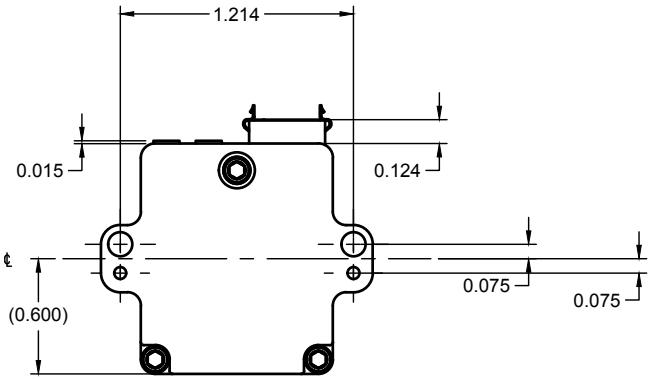
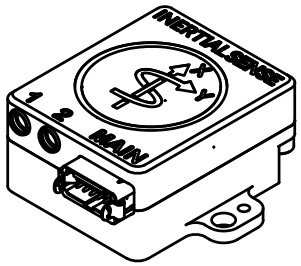


* POSITION OF IMU CENTER

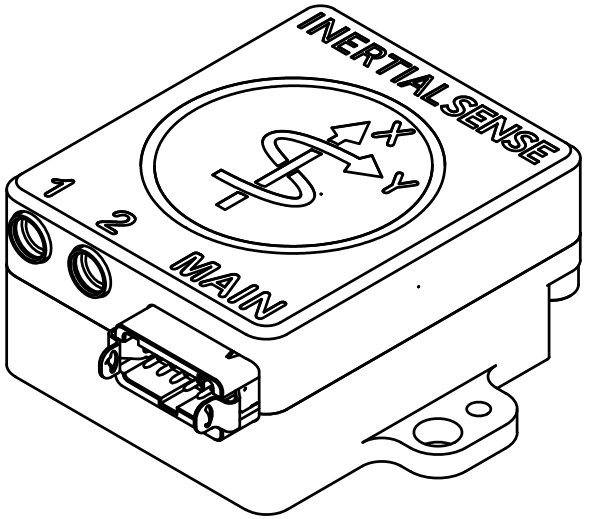








ACTUAL SIZE



SCALE 2:1

INERTIALSENSE
autonomous navigation solutions

TOLERANCES
UNLESS OTHERWISE SPECIFIED:

LINEAR DIMENSIONS: ±.005
ANGULAR DIMENSION: ±0.5°

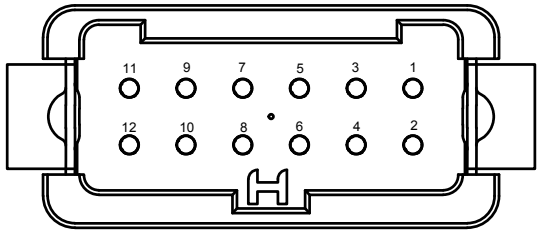
ALL DIMENSIONS IN INCHES

PROJECT
IMX-5 Poduct Line

TITLE
IMX-5 Rugged G2 Dimensions

APPROVED	WALT JOHNSON	8/11/22	SIZE	MATERIAL	DWG NO	REV
CHECKED	ANDREW PRIDDIS	8/11/22	A		IS-IMX5-RUG2	1
DRAWN	ANDREW PRIDDIS	8/9/22	SCALE 1:1	WEIGHT	SHEET 1/2	

"MAIN" CONNECTOR PINOUT
(ON RUGGED SIDE, NOT CABLE SIDE)



PIN	NAME	DIRECTION	DESCRIPTION
1	GND	PWR	Common Ground
2	G9/STROBE	I/O	Stobe time sync input. (Includes 390 ohm series resistor)
3	VIN	PWR	4V - 20V system supply input
4	USB.D+	I/O	USB data positive line
5	GPS PPS	O	GPS time synchronization output pulse (1Hz, 10% duty cycle)
6	USB.D-	I/O	USB data negative line
7	G3/TX0/485TX2-/SCLK	I/O	Serial 0 output (TTL or RS232) Serial 2 output- (RS485) SPI - SCLK
8	G2/TX2/485TX2+/MISO	I/O	Serial 2 output (TTL or RS232) Serial 2 output+ (RS485/RS422) SPI - MISO
9	G4/RX0/485RX2-/CS	I/O	Serial 0 input (TTL or RS232) Serial 2 input- (RS485/RS422) SPI - CS
10	G1/RX2/485RX2+/MOSI	I/O	Serial 2 input (TTL or RS232) Serial 2 input+ (RS485/RS422) SPI - MOSI
11	G1/CANL/RX2	I/O	High level (CAN bus) Serial 2 input (TTL)
12	G2/CANH/TX2/STROBE	I/O	Low level (CAN bus) Serial 2 outpul (TTL) Strobe time sync input.

INERTIALSENSE
autonomous navigation solutions

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UNLESS OTHERWISE SPECIFIED:

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ALL DIMENSIONS IN INCHES

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