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AHRS-M1 Hardware Interface Control Document

Rev B – 04/30/2018

Empowering your Vision

Hardware Interface Control Document

Revision Level	Date	Items Changed	Author
A	10/01/2016	New	RSW
B	04/30/2018	Updated drawings for new bracket	DMC

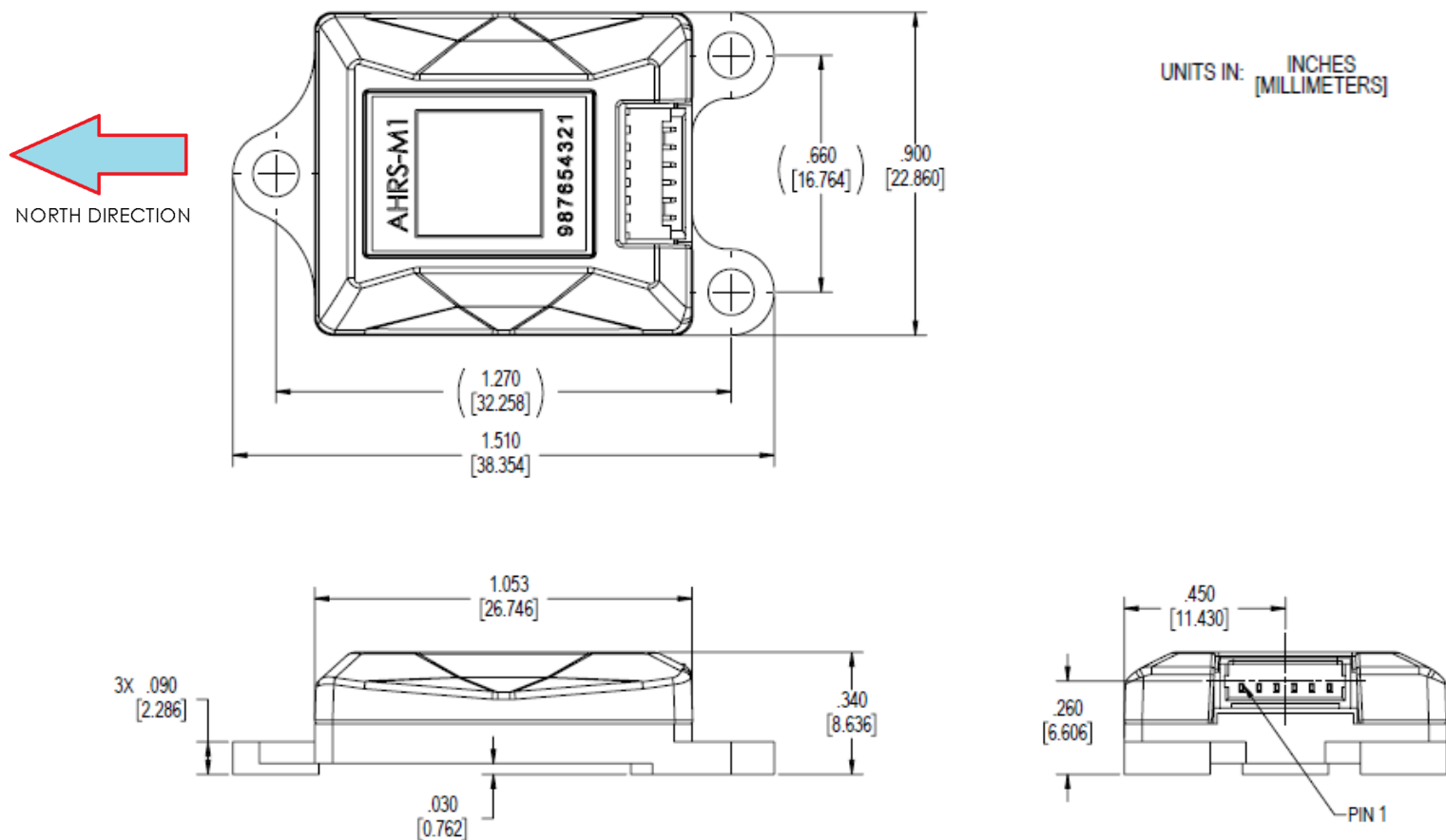
AHRS-M1 Layout

AHRS-M1
Layout

AHRS-M1
Alignment

AHRS-M1
Connections

The precision mounting on Sparton's AHRS-M1 inertial system provides accurate installation and alignment within the end product and reduces the need for installation specific bore-sight adjustments.



(Specifications subject to change without notice)

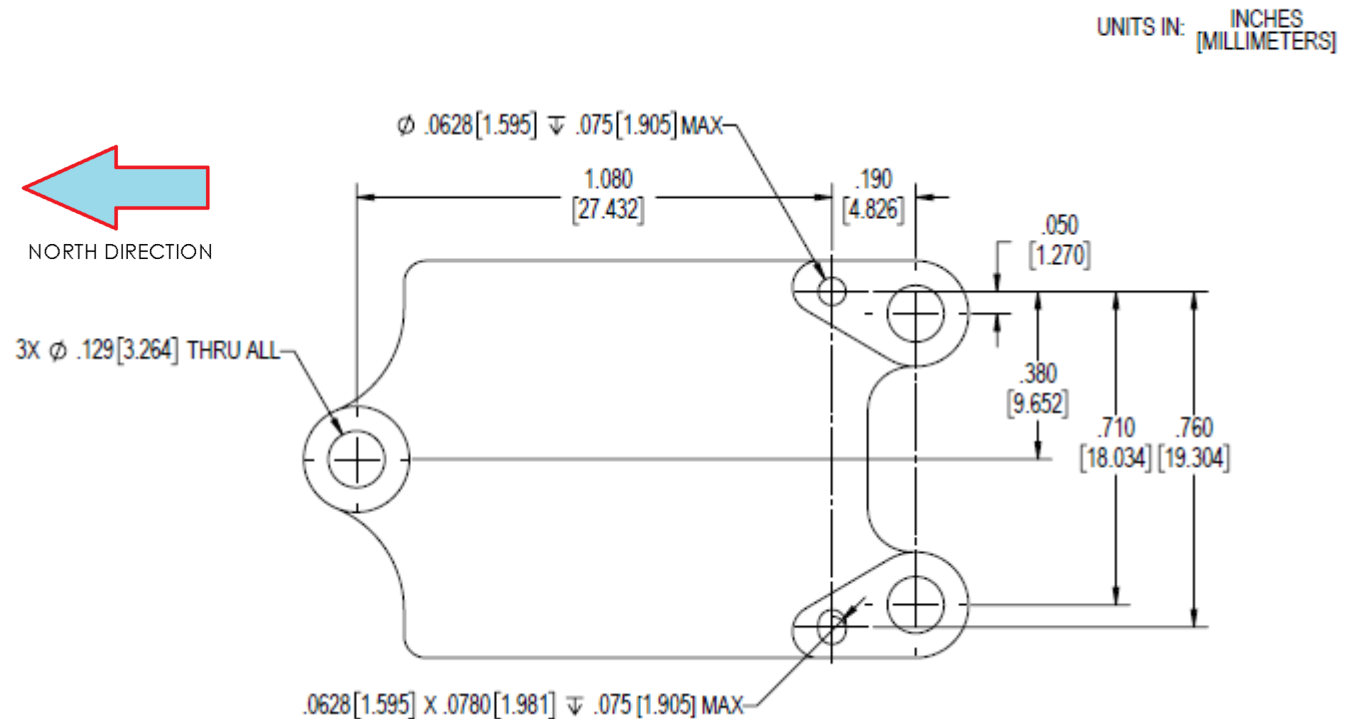
AHRS-M1 Alignment

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AHRS-M1 Connections

AHRS-M1
Layout

AHRS-M1
Alignment

AHRS-M1
Connections

- Mating Connector
 - Molex – 0151340600 PicoBlade connector
- Digital Interface

Parameter	Conditions	Typical	Units
UART	8 Data Bits, 1 Stop Bit, No Parity	115.2K Factory Default	Baud
		1200 – 115.2K	
UART: USER_RXD	Input	Logic 0: 0	V
		Logic 1: 3.3	
UART: USER_TXD	Output	Logic 0: 0	V
		Logic 1: 3.3	

Connector Pin #	Pin Name	I/O	Function
1	GND	I	Power supply input to sensor.
2	USER_TXD	O	3.3V logic TxD output from Sensor User Com Port
3	USER_RXD	I	3.3V logic RxD input to Sensor User Com Port
4	VIN	I	Voltage Input
5	#RESET	I	3.3V logic, active-low reset input (the pin has a weak pull-up)
6	#EINT0	I	3.3V logic, active-low interrupt input (the pin has a weak pull-up). Used for programming purposes.

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