



M20-040 SPECIFICATIONS

M20-040 Low-Frequency Particle Motion Sensor

OVERVIEW

The M20-040 is designed for 3-D particle motion measurement or low-frequency directivity in a broad range of environments.

It is suitable for a variety of different applications including marine mammal detection, ocean environmental monitoring, antisubmarine warfare (ASW), marine surveillance, and offshore oil and gas monitoring.

It includes:

- Three Orthogonal Accelerometer-Based Particle Motion Sensors
- Omnidirectional Acoustic Pressure Sensor



CHARACTERISTICS

PHYSICAL:

Maximum Operating Depth	300 Meters
Mass	1.12 Kg
Storage Temperatures	-40°C to +70°C
Operating Temperatures	0°C to +35°C
Diameter	64 mm
Length	176 mm

ACOUSTIC:

Operational Frequency Range	10Hz to 3 kHz
Power Requirements	12 VDC, 50 mA
Fluid Compatibility	Water
Receive Sensitivity	Refer to Graphs Below
Output Type	Current loop [Can be converted to single ended voltage with external line receiver]

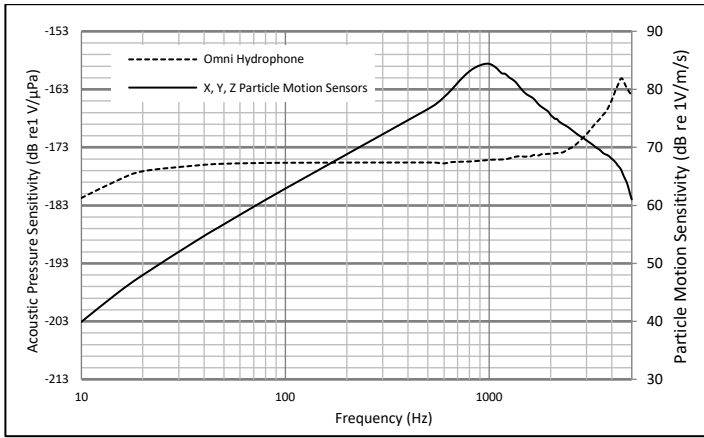


Figure 1: Receive Sensitivity Response for M20-040

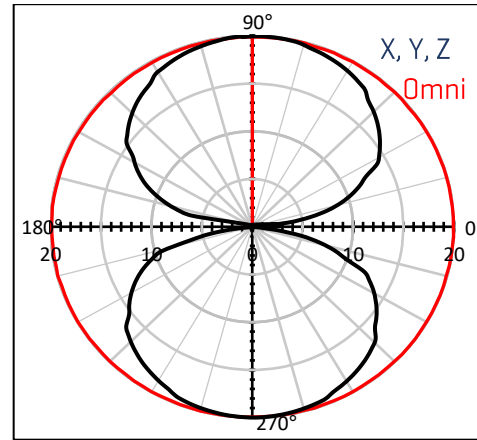


Figure 2: Directivity Plot for M20-040

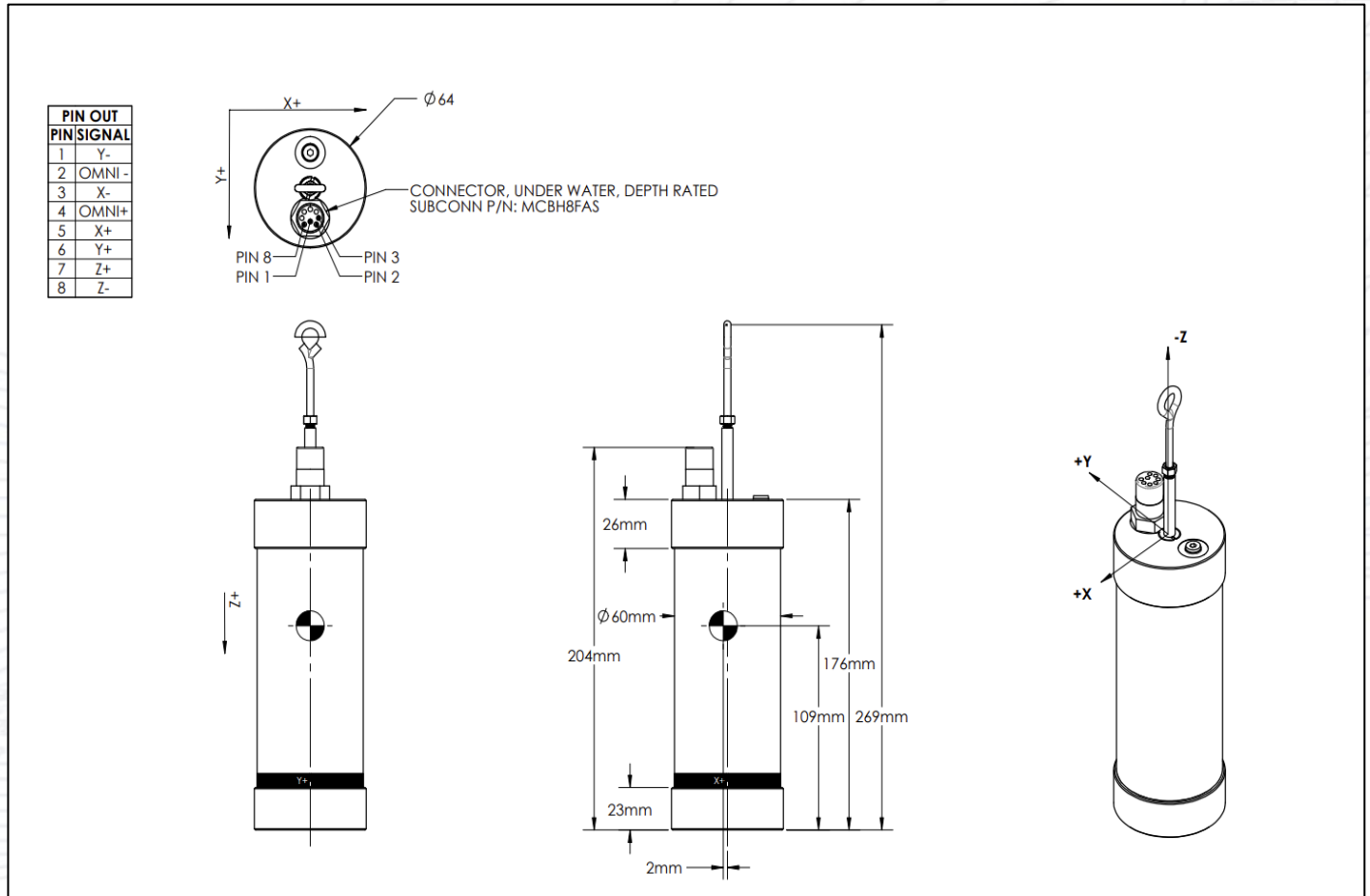


Figure 3: Dimensions of the M20-040 with labeled pin out