## **Detection Characteristics and Specifications**

MarkOne Beacon V2.0 IR-LOCK Sensor

The MarkOne Beacon System is comprised of the IR-LOCK Sensor and MarkOne Beacon V2.0. The system provides reliable target detection and tracking in any lighting condition, including bright sunlight and complete darkness. The IR-LOCK Sensor interfaces with robotics hardware via I2C, SPI, UART, USB, or Analog. MarkOne Beacon V2.0 is compatible with SF20 and LW20 rangefinders.



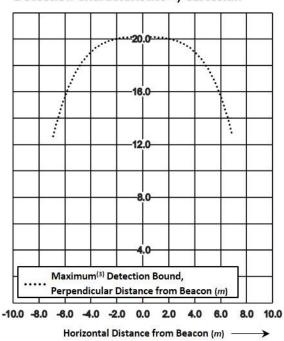
**Detection Half Angle:**  $\phi$ =35°

Maximum Detection Range at φ=0°: 20m

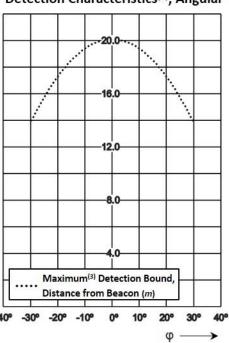
Lens focal length: 3.6mm

Compatible Rangefinders<sup>(1)</sup>: SF20, LW20

## Detection Characteristics<sup>(2)</sup>, Cartesian



## Detection Characteristics(2), Angular



(1) SF20 and LW20 rangefinders are compatible with MarkOne Beacon V2.0. The SF10/A is also a reliable option, depending on the sensor configurations.

## (2) Test Conditions:

- Outdoors in sunlight

- Sensor Firmware: MarkOneBeta\_1.0.1.hex

(3) Detection range extends further than indicated in graph, but with reduced detection rate.

Website: www.irlock.com

Product Information: <a href="http://bit.ly/MarkOne2">http://bit.ly/MarkOne2</a>
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