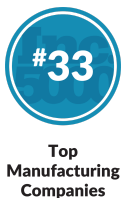


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MaxBotix Inc., Makes Inc. 5000 List For Second Time

Author: Kathy Kostal Date: 08-31-2016

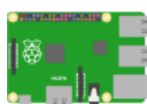


Inc. Magazine Unveils 35th Annual List of America's Fastest Growing Private Companies—the Inc. 5000. MaxBotix Inc., Ranks No. 1752 on the 2016 Inc. 5000 with Three-Year Sales

Growth of 213%.
[Click here](#) for full article.

Raspberry Pi TTL Tutorial

Author: Cody Carlson Date: 08-02-2016



MaxSonar sensors offer a variety of outputs including TTL serial data. This tutorial guides you through the process of setting up your Raspberry Pi 3 with

a MaxBotix sensor.
[Click here](#) for full article.

Packaging Options for the MaxSonar Sensors

Author: Scott Wielenberg Date: 07-26-2016

Performance Data

Evaluate Our MaxSonar Ultrasonic Sensors

001 - MaxSonar Reliability Demonstration (MTBF)	124 - Important Considerations for Using an Ultrasonic Sensor Inside of a Pipe
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135 - How Salt Water Affects Electronics

| Written By: Dan Alcox | Date Posted: 02-26-2016 |



This article discusses the effects of salt water on electronics, PCBs, and sensors. Further, the article explains the inhibition of sensor operation with examples of salt damage, and shows the neutralization process of salt water. If you have questions about how salt water affects electronics, please contact us.

[Click here to continue to the full article](#)

124 - Important Considerations for Using an Ultrasonic Sensor Inside of a Pipe

| Written By: Scott Wielenberg | Date Posted: 07-11-2016 |



Many customers have requested the option to mount an ultrasonic sensor in a pipe. During the testing and development cycle, we discovered a number of considerations and requirements that must be met for the application to be successful. When all of these are met, a user may be able to achieve the desired level of success for measuring the liquid level inside of a pipe.

[Click here to continue to the full article](#)

123 - Resolution, Precision & Accuracy: A Guide to Understanding Range Readings

| Written By: Cody Carlson | Date Posted: 11-03-2015 |



When it comes down to it, you purchase a rangefinder for the range readings. The success of an application may hinge upon knowing the exact location of a target. However, a sensor may report one meter even if the target is not exactly one meter away from the sensor.

Sensor specifications, such as resolution, precision, and accuracy, help us understand what wiggle room and error will be present in a reading.

[Click here to continue to the full article](#)

103 - Corner Reflectors Can Cause Surprise Clutter

| Written By: Scott Wielenberg | Date Posted: 03-12-2015 |



Sometimes when using an ultrasonic sensor, users experience detection of unwanted objects that appear outside the expected beam pattern. These types of detections are the result of reflectors present in the environment. Corner reflectors can be surprisingly small, yet present a large reflection back to the sensor.

Some examples of common corner reflectors follow: a book shelf along a wall, a curb in a parking lot, a 1/2" wide seam in a concrete floor, internal bracing in a bin, or the inside corner of a doorway in a narrow hall. Each of these examples can create a corner reflector that may cause unwanted detections.

[Click here to continue to the full article](#)

077 - HRXL-MaxSonar-WRS Accuracy

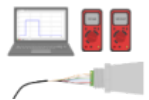
| Written By: Tom Bonar | Date Posted: 11-06-2013 |



MaxBotix offers an expanded range of packaging options for many of our sensors. Each option provides unique benefits to certain mounting integrations. This article provides a brief overview of each option. [Click here](#) for full article.

The MaxBotix RMA Process Guide

Author: Scott Wielenberg Date: 07-18-2016



When providing support, our technical support team may determine that further testing at our facility is the best way to help resolve the issue that you are facing. At this point, they will start the Return Merchandise Authorization (RMA) process. This article will explain what you can expect as your ultrasonic sensor travels through our RMA process. [Click here](#) for full article.

Grand Opening of Facility Expansion

Author: Jenney Grover Date: 06-28-2016



On April 19th, we welcomed our supporters to join us for the Grand Opening of the Build Out. Bob and Nita Gross gave a tour of the build out and their vision for the space. We continue to be in awe of the support

from our community, our employees, our distributors, and our customers. Thank you for the many years of support, and we look forward to serving you in the years to come. [Click here](#) for full article.

News Archive

New Product Signup

Signup for notification of our exciting new products and periodic new letters. We are excited to provide the latest information from MaxBotix Inc.

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Ultrasonic snow depth sensors from MaxBotix Inc., feature high range stability during outdoor operation. We believe that our sensor's performance meet or exceed that of our competitors, yet feature a much lower cost. Presented is our sensor's performance, from the MB7354, compared with the performance of the Judd Ultrasonic Snow Depth Sensor and Campbell Scientific SR-50 sensor.

[Click here to continue to the full article](#)

069 - HRXL-MaxSonar®-WR Extreme Duty Sensors

| Written By: Tim Gallagher | Date Posted: 03-27-2013 |



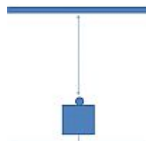
MaxBotix Inc., thanks guest writer Tim Gallagher who shares his experience with the MB7369 while transporting heavy equipment.

MaxBotix Inc., sensors have been successfully used in extreme duty conditions. Large multi-axle trailers, which are used to transport wind energy equipment across the country, hydraulically adjust the ride height of their payload throughout their journey to meet varying conditions. The HRXL-MaxSonar-WR sensor series withstand the extreme environmental conditions of these trips, and power through the extreme road noise and wind conditions.

[Click here to continue to the full article](#)

063 - MB7360 Multi-Sensor Test and Results

| Written By: Scott Wielenberg | Date Posted: 02-14-2013 |



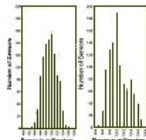
MaxBotix Inc., has recently tested operation of our MB7360 HRXL-MaxSonar-WR in a multi-sensor environment. The testing was conducted from 11/15/2012 to 11/19/2012.

All the test data (about 7.5mil. data points) gathered show there to be no interference from multi-sensor operation for the MB7360 in this test setup.

[Click here to continue to the full article](#)

057 - HR-MaxSonar Accuracy Test

| Written By: Bob Gross, CEO of MaxBotix Inc. | DatePosted: 09-28-2012 |



We just conducted an engineering test of the accuracy of our lowest-cost line of high-resolution sensors, the [HRLV-MaxSonar-EZ](#). The two graphs show 1000 distance measurements each to a bar target at 500mm and 1000mm respectively. The test demonstrates how accurately our sensors measure distance, and takes into account the part-to-part consistency, the full operating voltage range, and the reading-to-reading stability. The measured accuracy results speak for themselves.

[Click here to continue to the full article](#)

050 - HRXL-MaxSonar-WR Tank Test

| Written By: Tom Bonar | DatePosted: 07-20-2012 |

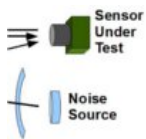


MaxBotix® Inc., HRXL-MaxSonar-WR Tank testing and results. The HRXL-MaxSonar-WR was designed with tank level measurement as one of the primary applications. The HRXL-MaxSonar-WR has 1-mm resolution and stable range readings. This tank test shows the accuracy and stability of the HRXL-MaxSonar-WR sensor in a tank measuring application.

[Click here to continue to the full article](#)

012 - MaxSonar Sensor Acoustic Noise Tolerance Test

| Written By: Scott Wielenberg | DatePosted: 11-21-2011 |

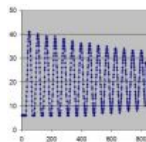


It's a little known fact that all of our MaxSonar products have been designed with a high acoustic noise tolerance. This means that the MaxSonar sensors from all of our product lines work to reduce or eliminate false detections caused by external noise sources. While acoustic noise tolerance is only a small part of our "sensor magic", that provides our users with reliable and stable range information, it is a critical factor for some of our users.

[Click here to continue to the full article](#)

002 - Swinging Ball Test of the Original MaxSonar™ Rangefinders

| Written By: Bob Gross | DatePosted: 06-26-2006 |



The primary goal during the building of the original LV-MaxSonar-EZ1 was to make a high performance ultrasonic range finder that provided readings, so stable, that unless the object moved, the readings didn't vary. This was the first and primary goal during the initial design of the LV-MaxSonar-EZ1, these goals have continued and been improved upon for all of our subsequent products. MaxBotix Inc., has virtually reached that goal.

[Click here to continue to the full article](#)

001 - MaxSonar Reliability Demonstration MTBF (Mean Time Between Failures)

| Written By: Carl Myhre | DatePosted: 03-15-2010 |

200,000+
Hours
MTBF

This test was conducted to verify and document the reliability of the MaxBotix Inc., MaxSonar product lines. Test parameters were selected that, if met, would establish and verify a mean time between failure (MTBF) of at least 200,000+ hours. Additionally, industry practice states that product performance at temperature extremes (-40°C, +70°C), during and after a significant number of temperature cycles, is required to validate the MTBF.

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