M Gmail   구본혁 <k01032633280@gmail.com>

Re: MaxSonar Troubleshooting - Bonhyeok Koo [ref:_00DU0Le1j._5000e1gQDGm:ref]
5개의 메일

Technical Support <techsupport@maxbotix.com>   2020년 1월 7일 오전 5:50
받는사람: "k01032633280@gmail.com" <k01032633280@gmail.com>

Bonhyeok,

Thanks for your inquiry and I am glad to help you resolve the issue that you are facing.

1. Can you help me understand how many sensors are operating in the area? Is it possible that there is some other ultrasonic device nearby? Would you have ability to send me a picture of the sensor in the mounting location?

2. The MB1414 has a ~2.5-second acquire time and ~1.5-second release time. This means it take about 2.5 seconds before the sensor switched to the new target when someone is present. Do you think this is what you are seeing? What is your desired response time for the sensor? We can often provide a semi-custom solution that matches your needs. Also, can you help me understand how many sensors you will need?

I look forward to your reply and helping resolve the issues at hand.
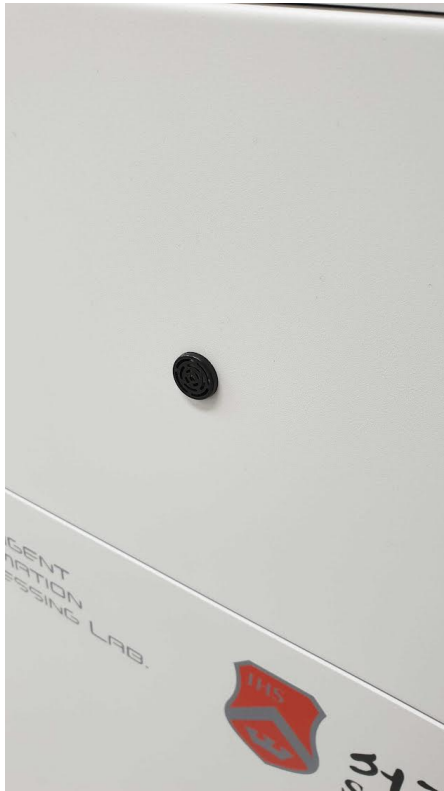
Best regards,

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ref:_00DU0Le1j._5000e1gQDGm:ref

구본혁 <k01032633280@gmail.com>   2020년 1월 7일 오후 12:57
받는사람: Technical Support <techsupport@maxbotix.com>

< MB1414 sensor in a frame of kiosk, black circle is a sensor part of MB1414 >
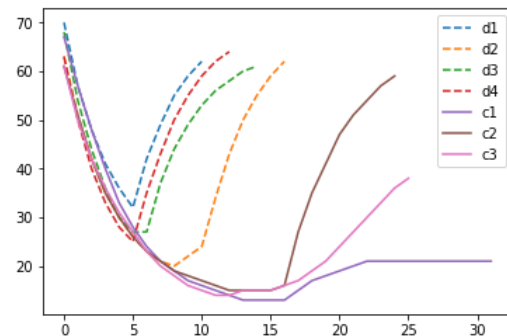
I want to distinguish person who just pass front of a kiosk and person who stand in front of kiosk by sensor.

1. There is only one sensor fitted in a frame of kiosk. We just made hole in a frame and fit a sensor in it. Can it make a problem?

2. No. My problem is the sensor recognize something is close when there is nothing. Distance between wall is about 62 inches.
   But sometimes, even though there is no one near the sensor, the sensor tells there is something in 21~25 inches distance for a few sec.

Q. Can I make detected distance falls quickly?

d : pass by the sensor
c : jump in front of the sensor

In (c) case, even I quickly move to the sensor. value of distance the sensor detects falls slowly.
Can't distinguish passing by and standing in front of the sensor in desired time.

Q. Can I lower response time? 2.5 sec feels a little bit long.

Q. Installing MB1434 or more sensors(current 1) will help me to get rid of those problems ?

2020년 1월 7일 (화) 오전 5:50, Technical Support <techsupport@maxbotix.com>님이 작성:
[받은메일 숨김]

Technical Support <techsupport@maxbotix.com>   2020년 1월 8일 오전 1:28
받는사람: "k01032633280@gmail.com" <k01032633280@gmail.com>

Bonhyeok,

It sounds like acoustic resonance may be happening inside the housing. I would try placing a foam donut around the black part of the transducer which is found on the inside of the casing. This may be the issue you are seeing. The goal is to place something around the black side of the sensor on the inside of the housing to absorb any sound that might be getting into the housing causing a "false" detection.

To answer your questions:

1. Can I lower response time? 2.5 sec feels a little bit long.
-This can be lowered in our firmware.

2. Installing MB1434 or more sensors(current 1) will help me to get rid of
those problems ?
-Please try the above and let me know your results.

I hope this helps. I look forward to your reply.
[받은메일 숨김]

구본혁 <k01032633280@gmail.com>   2020년 1월 8일 오후 5:40
받는사람: Technical Support <techsupport@maxbotix.com>

Thank you for the answer. I pulled out the sensor out of a frame and test it on open place. No false detection until now. I will wrap the sensor with something that can absorb unintended sound.

I sill have one more question. Can I make detected distance falls quickly?
Like if someone appears in 6 inches distance, the sensor value falls from 68 to 6 straightly.

2020년 1월 8일 (수) 오전 1:28, Technical Support <techsupport@maxbotix.com>님이 작성:
[받은메일 숨김]

Technical Support <techsupport@maxbotix.com>   2020년 1월 9일 오전 3:30
받는사람: "k01032633280@gmail.com" <k01032633280@gmail.com>

Bonhyeok,

Thanks for the reply and update. Based on your request, you may be interested in our MB1413 that is not a proximity sensor. You will have to process the range data but it will update within 1.25 seconds.

MB1413: https://www.maxbotix.com/Ultrasonic_Sensors/MB1413.htm

What is your desired refresh rate for acquiring a new target?
[받은메일 숨김]