



Reliability Laboratory

TEST REPORT

Report No.: HHN0011A/2018
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Date: November 6, 2018

NIETZSCHE ENTERPRISE CO., LTD.
NO. 560, SEC. 2, ZHONGSHAN RD., ZHONGHE DIST.,
NEW TAIPEI CITY, TAIWAN, R.O.C.

The following merchandise was submitted and identified by the vendor as:

Product Description: NB-IoT/ LoRa Dual-detection Parking Occupancy Detector
Style/ Item No.: P01(P02)/ No.1
Manufacturer/ Vendor: Nietzsche Enterprise Co., Ltd.
Country of Origin: Taiwan
Quantity: Total 1 piece
Testing Period: Nov. 2, 2018

We have tested the submitted sample(s) as requested and the following results were obtained:

Test Required: (According to client's test specification, please see following sheets in detail.)
1. Parking Occupancy Detection Accuracy Test

Test Results: -PLEASE SEE ATTACHED SHEETS-

Signed for and on behalf of
SGS TAIWAN Ltd.

Winson Tseng
Technical Manager

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1. Parking Occupancy Detection Accuracy Test:

Test Equipment:

Name	Brand	Model	Serial No.
Stop Watch	CASIO	HS-3	702Q02R
Test Vehicle	Honda	FIT	N/A
Test Vehicle	Lexus	RX350	N/A

Test Environmental Conditions:

Ambient temperature: $(25 \pm 3) ^\circ\text{C}$

Ambient humidity: $(55 \pm 20) \% \text{RH}$

Test Method/ Specification:

1. Test Conditions--I:

Test environmental: Rain (outdoor)

Test method: Place the sample on the ground. Move the vehicle over the sensor then move the vehicle out of the sensor, examine the monitor platform to receive sensor signal and average time.

Test cycle: 220 cycles (110 times move in, 110 times move out)

2. Test Conditions--II:

Test environmental: Rain (outdoor)

Test method: Place the sample on the ground. After the first vehicle moves out of the sensor, then another vehicle quickly moves to sensor, examine whether the sensor can distinguish different vehicle signal.

Test cycle: 3 cycles

3. Test Conditions--III:

Test environmental: Rain (outdoor)

Test method: Place the sample on the ground. Move the vehicle nearby the sensor, then examine whether the sensor to receive wrong signal.

Test cycle: 3 cycles

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Specimen:

Style/ Item No.: P01(P02)/ No.1

Quantity: Total 1 piece

Test Result:

1. Test conditions--I:

Style/ Item No.	Test cycle	Check Item	Correct identification times	Accuracy	Average recognition return time (s)
P01(P02)/ No.1	220	110 (Move in)	110	100%	13
		110 (Move out)	110	100%	14

2. Test conditions--II:





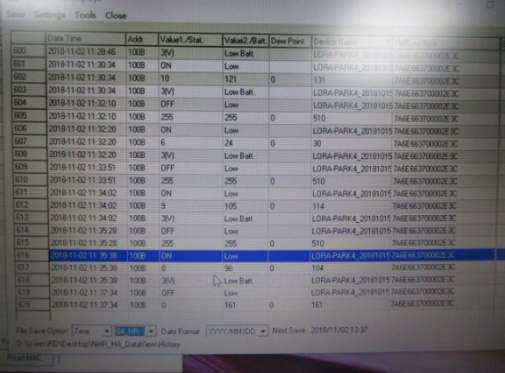
Style/ Item No.	Test cycle	Check Item	Examine whether the sample can distinguish different vehicle signal?	Accuracy
P01(P02)/ No.1	3 cycles (Move out)		Yes	100%
	3 cycles (Move in)		Yes	100%

3. Test conditions--III:

Style/ Item No.	Test cycle	Check Item	Examine whether the sensor to receive wrong signal?	Misjudgment Ratio
P01(P02)/ No.1	3 cycles		No	100%
			No	100%

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Test Photos:

	
<p>1. Appearance of specimen</p>	<p>2. Parking Occupancy Detection Accuracy Test: Test conditions--I</p>
	
<p>3. Parking Occupancy Detection Accuracy Test: Test conditions--II</p>	<p>4. Parking Occupancy Detection Accuracy Test: Test conditions-- III</p>
	
<p>5. Functional Check</p>	

— — — The End of Test Report — — —

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