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LCN9810 NFC scanner Datasheet

NFC scanner

Incase you have problems reading a driver, we recommend using an NFC scanner.

- When your smartphone has no or weak NFC antenna
- When you cannot reach the driver with your smartphone
- Some drivers cannot be read by some smartphones running on Android 9 (or higher). This NFC scanner will solve this.

This device communicates via BLE with your smartphone.

The NFC scanner has a secure BLE connection with the smartphone
The NFC scanner is available in the sample web shop:

Home page | Philips OEM Sample Shop EMEA

BLE = Bluetooth Low Energy

NFC = Near Field Communication

The NFC scanner enables you to read/write Philips drivers

Key for power on/off, reset and scanning (for specific setting)

Antenna

Blue LED to indicate battery charge status and BLE connection

Yellow LED for scanning active HW reset
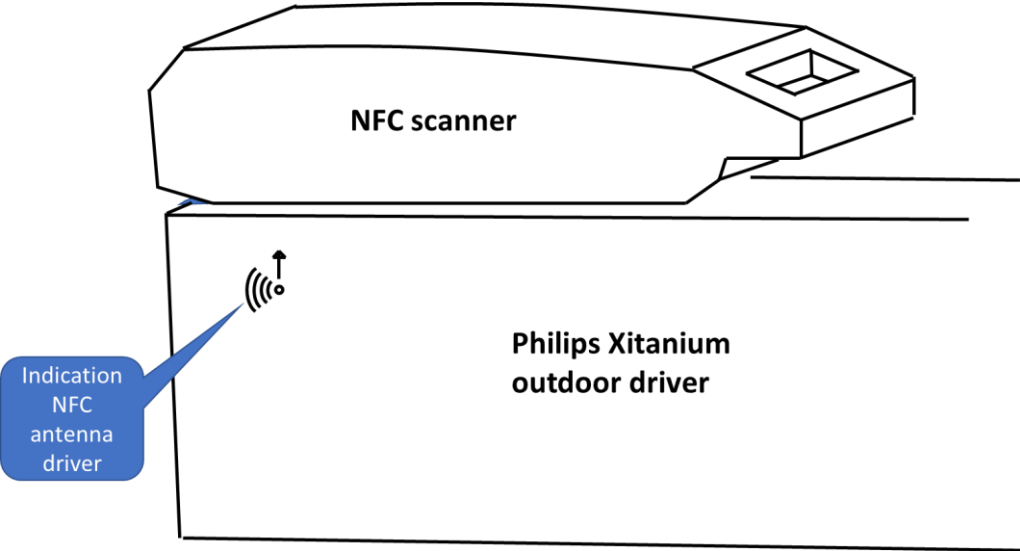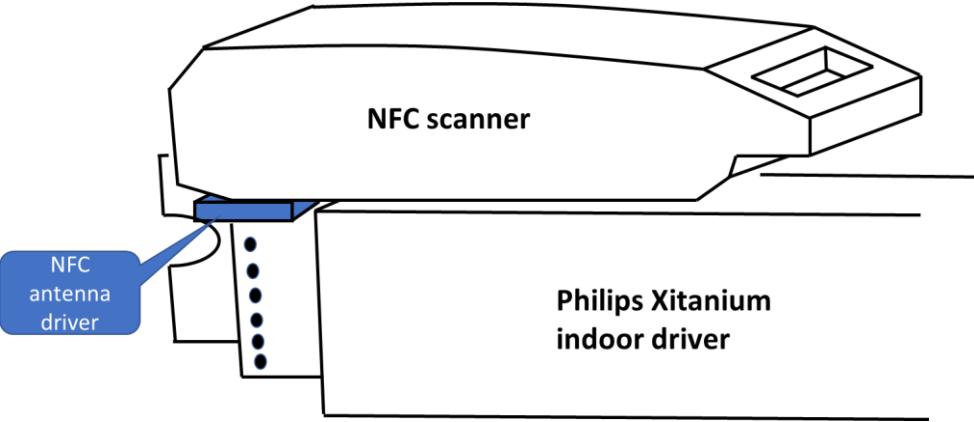
NFC SCANNER

NFC SCANNER
tertiumtechnology.com

BBN00179-196171

5VDC ⎓ 500mA

Key ring

Micro USB connector

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How to use the NFC scanner?

- Make sure the battery of the NFC scanner is charged sufficiently, use the micro USB connector near the key-ring to charge. A low battery will have less good communication capabilities

- Switch on the NFC scanner by the pushbutton (see previous slide)

- The scanner will switch off automatically after approximately 5 minutes

- Position the antenna of the scanner parallel to the antenna of the driver for optimal connection (see explanation next slide)

- In case the communication is not as good as can be expected, please experiment by changing the position of the NFC scanner relative to the driver

- When reading or writing data to or from the driver you do not need to push the pushbutton

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Best position of the NFC scanner relative to the PHILIPS driver

NFC scanner

NFC antenna driver

Philips Xitanium indoor driver

NFC scanner

Indication NFC antenna driver

Philips Xitanium outdoor driver

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Button, LED's and Beeper

Action	Light Displayed	Light Sequence	Beep Sequence	Status - Function	
	⬦			Off	
1 sec. hold	⬦	🟡🔵	•	Start Devices	
	🔵⬦			Power On	
	🔵⬦	🟡🟡🟡 ...		Scanning	Scan Functions
	🔵⬦	🟡	• • •	Successful reading	
	🔵⬦	🟡	• •	Reading error	
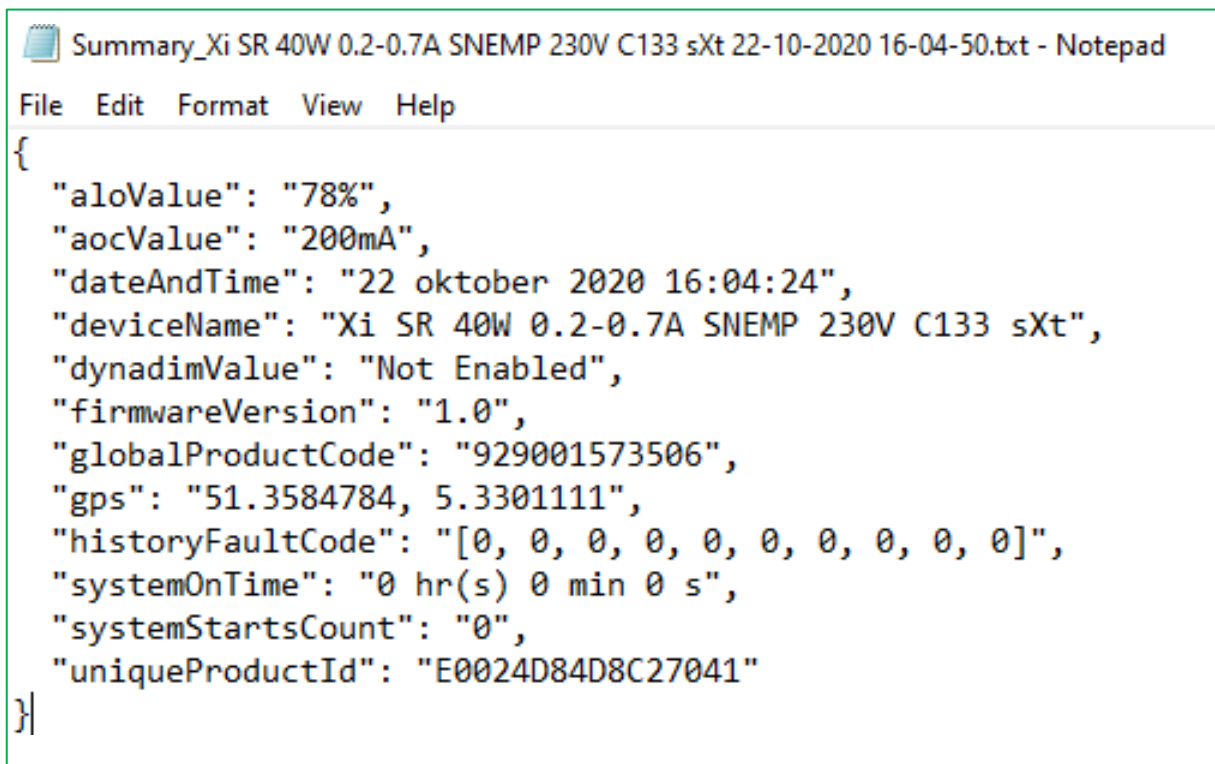
2 sec. hold	⬦	🟡		Shutdown	
	⬦	🔵⚪🔵⚪ ...		Battery Low	Battery Status
USB connected	⬦	🔵⚪🔵⚪ ...		Battery Recharge	
plugging USB	⬦	🟡🔵	•	Start Devices	
	⬦	🔵🔵🔵🔵 ... Max 10 s		Battery Low no operations allowed	
	⬦	🔵🔵🔵🔵 ...		Bluetooth disconnected	
6 sec. hold	⬦	🟡		Hardware reset	

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Specifications

Details	Specifications
Man/Machine Interface	1 function key for RFID read activation, Multitone Beeper, 2 LED for device operation signaling
Internal Devices	Frequency: 13.56 MHz ; Power: 200 mW Standard: ISO 15693, ISO 14443A/B, NFC Type-2 Tag, NFC Type-4 Tag, NFC Type-5 Tag, ST25TB ; Read range: up to 6 cm ; Embedded antenna
Interfaces	Micro USB type B, Bluetooth® Low Energy
OS Compatibility	iOS, Android, RIM, Windows Mobile/Phone, Windows, macOS, Linux
Processor	Texas Instruments MSP430 (16bit RISC a 16MHz)
Power Supply	USB powered: 230mA peak @ 5Vdc (RF active full power), 30mA @ 5Vdc (idle mode) Battery powered: Li-Poly Battery 3.7Vdc 300mAh, rechargeable via micro-USB Battery life 15000 readings, 14 h in idle mode
Working Temperature	-20°C / 60°C
Dimension	Height 7.7 cm – Width 4.3 cm – Depth 1.7 cm
Weight	21 g
Protection Degree	IP 54

TERTIUM_NFC_SCANNER_DataSheet_EN (tertiumtechnology.com)

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Classified

ANNEX MultiOne Mobile – example of Specification format

Summary_Xi SR 40W 0.2-0.7A SNEMP 230V C133 sXt 22-10-2020 16-04-50.txt - Notepad

File   Edit   Format   View   Help

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{
  "aloValue": "78%",
  "aocValue": "200mA",
  "dateAndTime": "22 oktober 2020 16:04:24",
  "deviceName": "Xi SR 40W 0.2-0.7A SNEMP 230V C133 sXt",
  "dynadimValue": "Not Enabled",
  "firmwareVersion": "1.0",
  "globalProductCode": "929001573506",
  "gps": "51.3584784, 5.3301111",
  "historyFaultCode": "[0, 0, 0, 0, 0, 0, 0, 0, 0, 0]",
  "systemOnTime": "0 hr(s) 0 min 0 s",
  "systemStartsCount": "0",
  "uniqueProductId": "E0024D84D8C27041"
}
```

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