LANTRONIX®

❶ NFC-Windscreen

❷ NFC-InCar

NFC Reader Series

PRODUCT OVERVIEW

LANTRONIX Near Field Communication (NFC) readers are high performance and flexible ISO14443A/B MIFARE® contactless smart card readers with read capabilities of 13.56MHz, which are designed for short range applications. They can be used in a wide range of automotive, identification applications such as secure vehicle access control, contactless key, vehicle and driver identification.

The NFC-Windscreen reader is designed to be installed directly behind the windshield or anywhere else inside the vehicle in a way that it is accessible from outside the vehicle. The NFC-InCar reader is designed to be installed e.g. in the car's centre console (inside the cabin). It has an integrated card slot, into which the NFC card can be inserted. The card remains there e.g. for hands-free operation and enables the car to start.

13.56MHz NFC-InCar

13.56MHz NFC-Windscreen

13.56MHz NFC technology

Built-in antenna for contactless tag access with reading distance of up to 40 mm

Compliant with NFC standards

Built-in anti-collision feature. Support ISO 14443 Type A and B cards, MIFARE®, FeliCa, and ISO 18092 tags

RS-232 communication

Interoperability with FALCOM vehicle telematics products supporting different NFC-related events to trigger actions

Progammable Multicolour LEDs

Red, green and white LEDs can be controlled by FALCOM vehicle telematics products

Vehicle Access Control

Vehicle and Driver Identification

Car-Sharing

D2SPHERE™

■ Models

Model		Mounting
❶ NFC-Windscreen	|	Car windshield
❷ NFC-InCar	|	Car centre console

■ Physical Characteristics

Weight:	❶ 57g (with cable)
	❷ 55g (with cable)
Cable Length:	1.5 meters
Interface Cable:	RS-232 (4pin UCOM connector)
	- 1 x Power input: +12...+24 VDC
	- 1 x Serial Port V24 (RX, TX)
	- 1 x Ground (GND)
Dimensions:	❶ 68 x 108 x 8 mm (WxLxH)
	❷ 58 x 111 x 7 mm (WxLxH)
Status Indicators:	❶ 3 x colour LED (Green / Red / White)
	❷ 3 x colour LED (Green / Red / White)
Buzzer:	❶ 1 x Buzzer; ❷ 1 x Buzzer
Casing Colour:	Black

Electrical Characteristics

Supply Voltage:	+12 VDC to +24 VDC ±5%
❶ Stand by (Max.): 8 mA; Operation (Max.): $33^{1)}/62^{2)}$ mA	
❷ Stand by (Max.): 8 mA; Operation (Max.): $32^{1)}/52^{2)}$ mA	

■ Performance

Operating Freq.:	13.56 MHz
Compliance:	ISO14443 Type A & B
	ISO 15693 ISO 18092 Tag
	MIFARE, FeliCa
Operating Distance:	Up to 40 mm

■ Environmentals

Operating Temp.:	-45°C to 85°C
Storage Temp.:	-20°C to 70°C
Relative Humidity:	5% to 95% non-condensing

■ NFC-Tags

The NFC tags can be ordered separately:

- Ordering name: RFID-TAGS-TYPE-A

[1] Three LEDs are off; [2] Three LEDs are permanently on
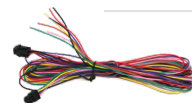

CONNECTION CABLES TO FOX3-2G/3G/4G SERIES

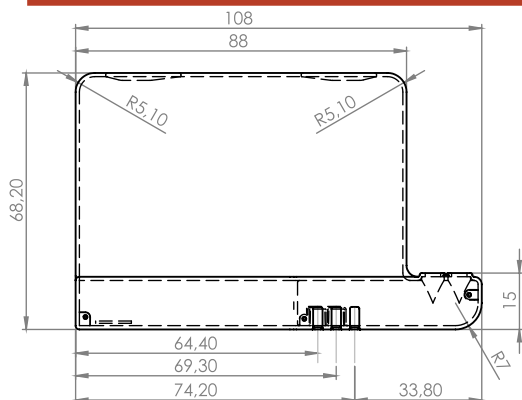The connection cables can be ordered separately

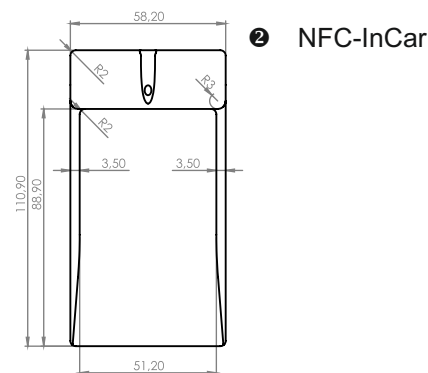**CA31** - Used to connect NFC with FOX3 to the 1st serial port (Main port)

CA69 - Used to connect NFC with FOX3 to the 2nd serial port (Accessory port)

DRAWINGS

❶ NFC-Windscreen

❷ NFC-InCar