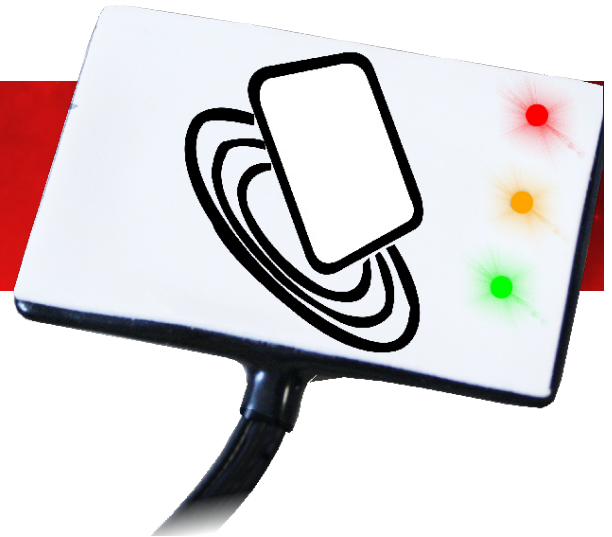# springcard®

PROX'N'DRIVE
LOW POWER CONTACTLESS SMARTCARD READER

CONTACTLESS READER/WRITER

Prox'N'Drive is an ISO 14443 and Mifare contactless reader/writer.

Featuring an innovative low power card detection system and designed to be installed behind a windscreen or a window, it is the ideal coupler for car-sharing applications.

KEY FEATURES

Being both compact and flexible, **Prox'N'Drive** is ideal for in-vehicle application. A single cable conveys both single 12V DC power and the RS-232 interface.

The front panel is fully customizable, and shows 3 high-luminosity LEDs for user information.

The low power card detection system make it possible to put both the reader and its host system in deep standby mode until a contactless card, RFID tag or NFC object is waved other the antenna. The reader is customizable with your logo.
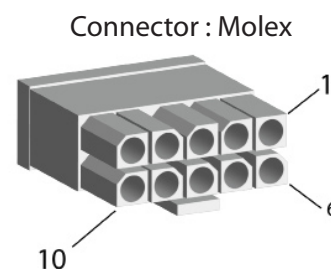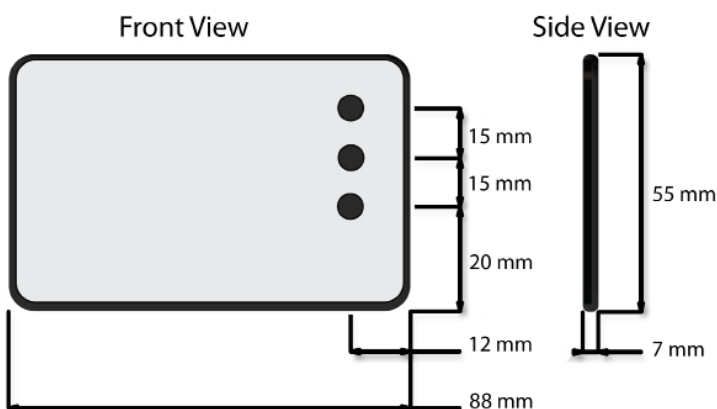
A FEW TYPICAL APPLICATIONS

- Car-sharing,
- Battery-powered kiosks,
- Active display windows.

ABOUT SPRINGCARD

SpringCard products are designed and manufactured in France, and distributed worldwide.

With 12 years of expertise in smartcards, contactless, RFID and NFC, **SpringCard** is the ideal partner to make your project a success.

Front View

Side View

15 mm
15 mm
20 mm
12 mm
7 mm
55 mm
88 mm

Connector : Molex

1
6
10

www.springcard.com

A PRO ACTIVE BRAND

pro Active

springcard®
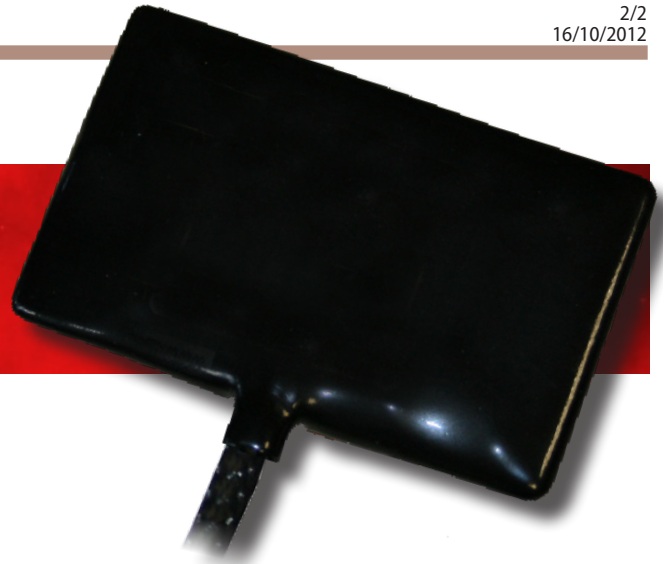
PROX'N'DRIVE
CONTACTLESS SMARTCARD READER

TECHNICAL SPECIFICATIONS

Contactless smartcard interface	
Standards	**ISO/IEC 14443** A, B Innovatron Radio Protocol (« B' »)
RFID carrier	13.56 MHz
Operating distance	Up to 8 cm depending on card and on environment
Card baud rate	106 kbps
Supported contactless smartcards (partial list)	▪ NXP (Philips) MIFARE Classic & UltraLight ▪ NXP (Philips) DESFIRE, SmartMX, ProX ▪ Calypso (CD97, CD21, GTML, etc) And virtually any **ISO/IEC 14443 A or B**

Environment and safety	
Operating temperature	- 20 →+ 70°C
Storage temperature	- 40 →+ 85°C
MTBF	500 000 hours
CE mark	EN50082 / EN55022 class B
Other standards	RoHS, FCC pending

Consumption	
Stand-By Mode [1]	900 µA
Normal Mode	200 mA

[1] Low power card detect

Serial Interface	
Connector	RS-232
Input voltage	3,3V to 24V DC
Baud rate	38400 or 115200 bps

Software	
API and SDK	SpringProx API - Free SDK available API compliant with existing products (CSB4, K531, K632, K663...)

Power supply		
3,3V to 24V DC		
Consumption	5V	12V
Standby	880µA	480µA
Typical	65mA	45mA
Maximum	130mA	60mA

Hardware specifications	
Dimensions (LxWxH)	88 x 55 x 7 mm
Housing material	ABS - 94VO
Weight	75 g
Cable	100 cm
Connector	Molex 43025-1000

ORDER CODES

PART #	Description
FPF2115	**Prox'N'Drive**

PRECAUTIONS FOR INSTALLATION
This device is a contactless reader; it uses inductive coupling (magnetic field) to power the cards and communicate with them. Precaution must be taken to keep the reader far from any source of perturbation (e.g. other readers, computers…). Installing the reader near a metal surface (aluminium or steel plate…) will lead to shorter operating distance and increased power consumption.
SpringCard has a long experience installing contactless couplers in various kind of devices. Do not hesitate to contact us if you need any assistance.

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ProActive