

## PROX'N'DRIVE LOW POWER CONTACTLESS COUPLING DEVICE



### CONTACTLESS READER/WRITER

Prox'N'Drive is an ISO 14443 (A, B & B') and Mifare contactless coupling device (reader and 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

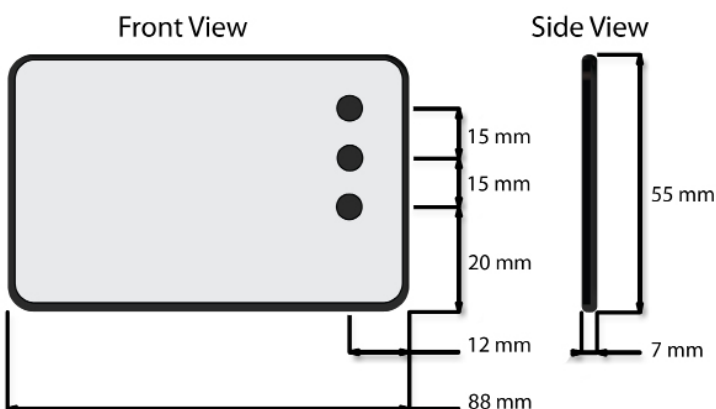
Being both compact and flexible, Prox'N'Drive is ideal for in-vehicle application. A single cable conveys both single 12V DC power and the RS-232 interface. The front panel has 3 high-luminosity LEDs for user information and is customizable with any personal logo. The low power card detection system makes it possible to put both reader and its host system in a deep standby mode until a contactless card, RFID tag or any NFC object is put in the antenna detection field.

### A FEW TYPICAL APPLICATIONS

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

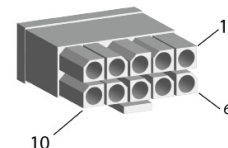
### ABOUT SPRINGCARD

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.



pin	designation	type
1	HOST_WAKEUP	OUT
2	/RESET	IN
3	FLASH	IN
4	GND	PWR
5	RFU	
6	VIN	PWR
7	TX	OUT (RS232 Level)
8	RX	IN (RS232 Level)
9	GND	PWR
10	RFU	

Connector : Molex



HEADQUARTERS, EUROPE  
SPRINGCARD

13 voie la Cardon  
Parc Gutenberg  
91120 Palaiseau  
FRANCE

Phone : +33 (0) 164 53 20 10  
sales@springcard.com

AMERICAS  
SPRINGCARD

6161 El Cajon Blvd  
Suite B, PMB  
San Diego, CA 92115  
USA

Phone : +1 (619) 544 1450  
sales-usa@springcard.com

[www.springcard.com](http://www.springcard.com)

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## PROX'N'DRIVE LOW POWER CONTACTLESS COUPLING DEVICE

### TECHNICAL SPECIFICATIONS

#### Contactless smartcard interface

Standards	ISO/IEC 14443 A, B and 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)	<ul style="list-style-type: none"> <li>▪ NXP (Philips) MIFARE Classic &amp; UltraLight</li> <li>▪ NXP (Philips) DESFIRE, SmartMX, ProX</li> <li>▪ Calypso (CD97, CD21, GTML, etc)</li> </ul> And virtually any ISO/IEC 14443 A or B compliant smartcard

#### 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

#### Power supply

3,3V to 24V DC				
Consumption	3,3V	5V	12V	24V
Standby	1545µA	970µA	530µA	305µA
	35µA	105µA	75mA	50mA
Maximum	210µA	145mA	70mA	50mA

#### Serial Interface

Connector	RS-232
Baud rate	38400 or 115200 bps
I/O lines	HOST_WAKEUP, /RESET and FLASH (TTL level)

#### Software

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

Dimensions (LxWxH)	88 x 55 x 7 mm
Housing material	ABS - 94V0
Weight	75 g
Cable	100 cm
Connector	Molex 43025-1000

#### Self Adhesive Foam

Color	Black
Width	0,9mm
Temperature	-40°C -> +120°C
Resistant to	Water, alcohol; detergent

### ORDER CODES

PART #	Description
SC13293	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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PRO ACTIVE COMPANY WITH A CAPITAL OF 227 000 €  
R.C.S. EVRY B 429 665 482  
N.A.F. 722 C  
VAT # : FR 27 429 665 482  
FRANCE

[www.springcard.com](http://www.springcard.com)

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