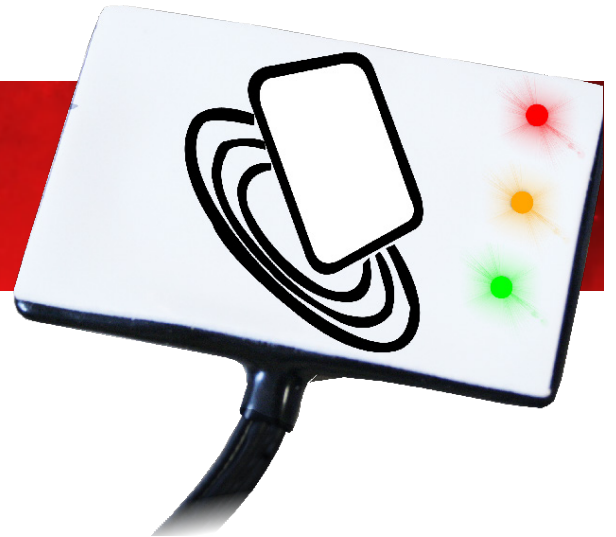


PROX'N'DRIVE

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 over the antenna. The reader is customizable with your logo.

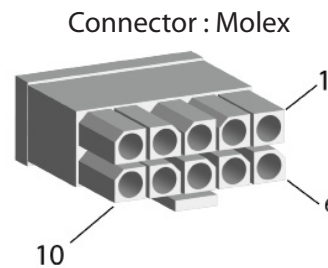
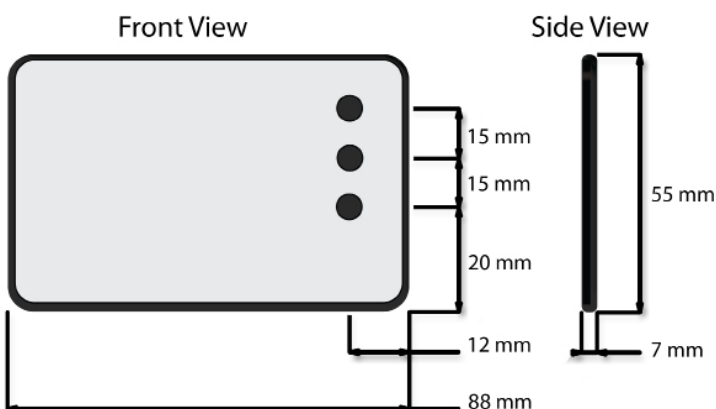
A FEW TYPICAL APPLICATIONS

- 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



| PIN Assignments | |
|-----------------|---------|
| 1 | WAKE-UP |
| 2 | \RESET |
| 3 | \FLASH |
| 4 | GND |
| 5 | N/A |
| 6 | VIN |
| 7 | FP_TxD |
| 8 | FP_RxD |
| 9 | GND |
| 10 | N/A |

HEADQUARTERS, EUROPE SPRINGCARD

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sales@springcard.com

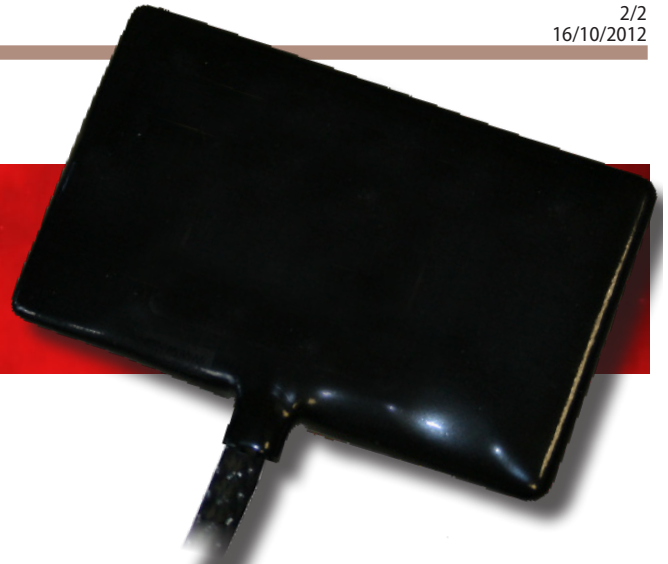
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Pro Active



PROX'N'DRIVE CONTACTLESS SMARTCARD READER

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"> ▪ NXP (Philips) MIFARE Classic & UltraLight ▪ NXP (Philips) DESFIRE, SmartMX, ProX ▪ Calypso (CD97, CD21, GTML, etc) 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 |

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 |
|--------|--------------|
| | 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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