

PROX'N'DRIVE VULOG LOW POWER CONTACTLESS SMARTCARD READER

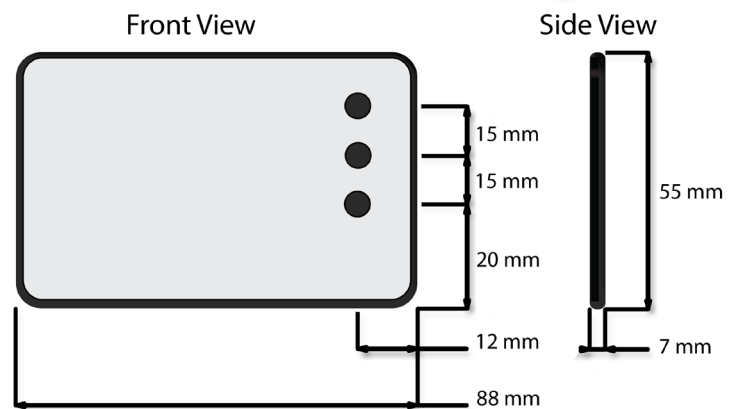
Prox'N'Drive is an ISO 14443 (A,B & B') and Mifare contactless reader/writer. Featuring an innovative low power card detection system and designed to be installed behind a windscreen or a window, it is the ideal coupler for car-sharing applications.



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.

MECHANICAL CHARACTERISTICS



A FEW TYPICAL APPLICATIONS

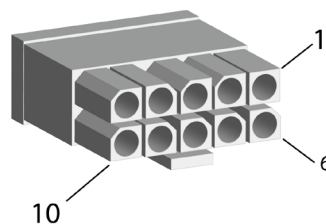
- Car-sharing
- Battery-powered kiosks
- Active display windows

SPRINGCARD & PRO ACTIVE

Established in 2000, **Pro Active** is an innovative provider of smartcard-related solutions, and one of the leaders on the contactless-reader market.

SpringCard distributes **Pro Active's** contact and contactless products worldwide, under a single brand name.

Molex 43025-1000



PIN Assignments

PIN	Assignment
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

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A PRO ACTIVE BRAND
Pro Active

PROX'N'DRIVE VULOG 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 cards (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	

Serial Interface	
Connector	RS-232
Power supply	3,3V to 24V DC/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...)

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

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

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

¹ Low power card detect

ORDER CODES

PART #	Description
EX2063	Prox'N'Drive Vulog

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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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