

## IWM-K632-DW WALL-MOUNTED CONTACTLESS READER



IWM-K632 is a wall-mounted reader for residential or corporate access control. This contactless reader is a next generation device for high demanding access control systems. Thanks to its wide choice of output interfaces, IWM-K632 can be integrated in any existing or new access-control system.

### KEY FEATURES

**Interoperability :** IWM-K632 is not only able to read serial numbers from virtually any 13.56MHz contactless card but it is also able to fetch particular data from Mifare or advanced T=CL cards.

**Evolutivity :** IWM-K632 configuration is made of 4 different sets, thus allowing different kind of cards to be used in the same time on the site. .

**Security :** IWM-K632 is able to communicate with NXP DESFire, to verify a numeric signature and to diversicate authentication keys for top-of-art security level.

### A FEW TYPICAL APPLICATIONS

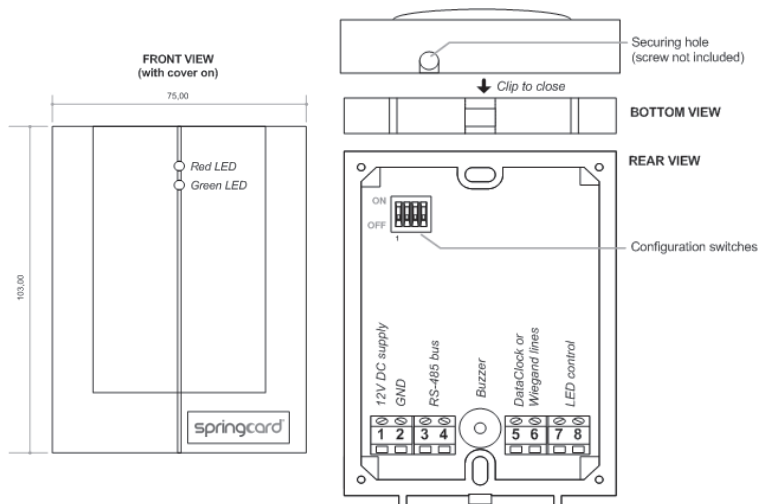
- high secured buildings access controll
- cash or vending machines

### 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.

### DETAILED VIEWS



PIN Assignments			
	RS-485	Wiegand	Dataclock
1	VCC - 12 V DC power supply		
2	GND - common		
3	RS-485 bus A	Unconnected	Unconnected
4	RS-485 bus B	Unconnected	Unconnected
5	Unconnected	Data 0 output	Data output
6	Unconnected	Data 1 output	Clock output
7	Unconnected	Red LED input	
8	Unconnected	Green LED input	

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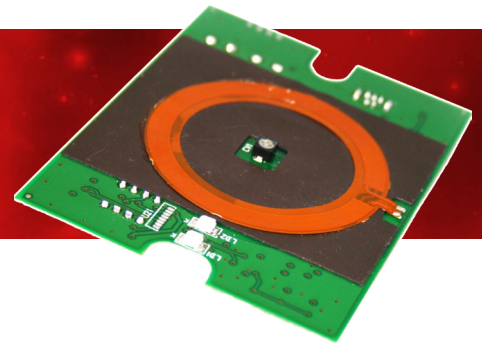
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**Pro Active**

## IWM-K632-DW WALL-MOUNTED CONTACTLESS READER



### TECHNICAL SPECIFICATIONS

Contactless smartcard interface	
Standards	ISO/IEC 14443 A and B, T=CL ISO/IEC 15693 and 18000-3
RFID carrier	13.56 MHz
Operating distance	up to 6 cm depending on card and on environment
Card baud rate	106 kbit/s (14443) 26 kbit/s (15693)
Supported cards (partial list) : <ul style="list-style-type: none"> <li>▪ NXP (Philips) ICODE1, ICODE-SLI, ...</li> <li>▪ Texas Instrument TagIT</li> <li>▪ NXP (Philips) MIFARE Classic &amp; UltraLight</li> <li>▪ NXP (Philips) DESFIRE, SmartMX, ProX</li> <li>▪ Infineon SLE66 family</li> <li>▪ ST MicroElectronics SR, SRI, SRIX families</li> <li>▪ HID iClass, Inside PicoTag</li> <li>▪ ASK CTS256/CTS512</li> <li>▪ Calypso (CD97, CD21, GTML...)<sup>1</sup></li> </ul> And virtually any ISO/IEC 14443 A or B compliant smartcard, or ISO/IEC 15693 compliant RFID label	

<sup>1</sup> Calypso card operation is subject to an extra license fee. Contact us for information.

Hardware specifications	
Dimensions (LxWxH)	103 x 75 x 23 mm (approx)
Housing material	ABS-94HB + PC
Color	Black
Weight	≈ 180g

Environment and safety	
Operating temperature	-20 → +80°C
Storage temperature	-40 → +85°C
Power supply	12V DC - linear supply recommended
Consumption	average 80mA (at 12V DC) peak: 250mA (at 12V DC)
MTBF	500 000 hours
CE mark	EN50082 / EN55022 class B
Other standards	RoHS

RS485 mode <sup>2</sup>	
2-wire RS-485 serial bus with optional addressing Up to 8 readers can be operated on the same bus	
Distance to controller	max 30m
Baud rate	1200, 2400, 4800, 9600, 19200, 38400 or 115200 bps
Output format	Hexadecimal string, 4 to 16 bytes (8 to 32 chars)
LEDs and buzzer	Driven by short commands on the serial link

Dataclock mode <sup>2</sup>	
2-wire interface DATA1 & DATA0 (active low)	
Distance to controller	max 30m
Output format	32 bits BCD (10 digits) ordinary 4 to 16 bytes
LEDs and buzzer	Driven by the controller (2 input lines, active low)

Wiegand mode <sup>2</sup>	
2-wire interface DATA1 & DATA0 (active low)	
Distance to controller	max 30m
Output format	Binary 4 to 16 bytes
LEDs and buzzer	Driven by the controller (2 input lines, active low)

<sup>2</sup> Output format, baud rates and related transmission options are fully configurable through PC-link connector or using master cards

### ORDER CODES

PART #	Description
IK632DW	IWM-K632-DW wall mounted contactless reader dataclock/wiegand/RS485

#### 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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