

Cardea



CARDEA W T102 / T103
128 x 76 x 29 mm



CARDEA W PIN T10 / T101
128 x 76 x 29 mm



SIA VERIFICATION
Cardea W T102
Cardea W Pin T10
Cardea W Pin T101
Cardea T112
Cardea Pin T11
Cardea Pin T111



CARDEA T112 / T113
126 x 45 x 28 mm



CARDEA PIN T11 / T111
126 x 45 x 28 mm

Product features and benefits

- OSDPv2-compliant verified by Security Industry Association (selected models).
- The first OSDPv2 verified products with XRD/XRW (Transparent Mode) Profile Certification.
- The same reader fits for multiple purposes, making it a safe choice for a system integrator.
- Configurable with phone app, File Transfer and configuration card.
- Both connector and cable option in the same reader.
- Durable; IK9 and even IK10 depending on the model.
- High IP67 protection class with connector (also cable).
- Wide operating temperature area.
- Materials chosen following principles of sustainability.
- Low power consumption.
- Pin pad can be replaced onsite (longer life span, sustainability).
- EU and FCC/ISED approved.
- Manufactured by a company that has ISO27001 information security standard.

Electrical specifications

Operating frequency	13,56 MHz
Voltage	+10 +30 VDC
Keypad type	3 x 4 moving keypad with a dot on key 5 (Cardea W Pin), 2 x 6 capacitive keypad (Cardea Pin)
Power consumption	Max. 2,5 W in Idesco default configuration
Power supply	Maximum available output power <100 W. Voltage does not exceed 42 VDC in any fault condition

Supported technologies

RFID chip support	MIFARE® DESFire EV1 & EV2 & EV3; UID + Application files; MIFARE® Classic; UID + Sectors; MIFARE® Ultralight; UID + Pages; MIFARE® Plus X, S, SE, EV1, EV2; UID + Security levels 1 and 3; MIFARE® SmartMX (MIFARE® Classic and DESFire emulation mode)
Additional Security feature for DESFire	Support for DESFire EV1 & EV2 & EV3 random UID, and proximity (EV2, EV3)
CSN/UID selection	Reader can be configured to read either 4 or 7 Byte UID's, or both

Mechanical specifications

Housing dimensions (hwxwd)	Cardea W: 128 mm x 76 mm x 29 mm Cardea W Pin: 128 mm x 76 mm x 29 mm Cardea: 126 mm x 45 mm x 28 mm Cardea Pin: 126 mm x 45 mm x 28 mm
Housing material	Plastic
Installation method	With screws
Cable	Available as an accessory
Connectors	2 x 7 pin pin strip connector
Colour	Black
Customized versions	Yes, with sticker or customer specific programming
Protection class	IP67
IK-rating	Cardea W: IK-10 Cardea, Cardea Pin, Cardea W Pin: IK-09
Flammability class	UL94 HB, UL94 V2

Idesco Oy

Elektroniikkatie 4
90590 Oulu
Finland

Tel. +358 (0)20 743 4175
Email info@idesco.fi
idesco.fi



Environmental specifications

Operational temperature range	-40 °C- +55 °C
Storage temperature range	-40 °C - +55 °C
UV radiation	EN60068-2-5, total radiation 1090 W/m2, 72 h
Maximum altitude	≤5000 m from the sea level

Interface specifications

Available interfaces	Wiegand, RS-232, OSDPv2 on RS-485, Clock & Data
Inputs / Outputs	1 General purpose input / 2 outputs

Standards and regulations

EMC	CE FCC / ISED
Encryption	AES, 3DES

Other features

LEDs and LED control	3 x RGB Led behaviour can be configured, they can also be controlled via protocol interface
Buzzer and buzzer control	Buzzer behaviour can be configured, it can also be controlled via protocol interface
Tamper switch	Configurable accelerometer based tamper
Alive message	For Wiegand a 4, 6, 8, and a 38-bit option For Clock & Data a fixed format
Re-read delay	Adjustable
Keypad backlight(s)	Adjustable
Configuration	With Mobile Coder app or a DESFire configuration card; Configure only after reset option; via Mobile Coder app or configuration card. Configuration can also be done over OSDPv2 interface
Firmware update	Update via RS-232/RS-485 interface, Mobile Coder app or OSDPv2 File Transfer

Idesco Oy

Elektroniikkatie 4
90590 Oulu
Finland

Tel. +358 (0)20 743 4175
Email info@idesco.fi
idesco.fi



Cardea product variants

With BLE

Cardea Pin T11
Cardea T112
Cardea W Pin T10
Cardea W T102

Without BLE

Cardea Pin T111
Cardea T113
Cardea W Pin T101
Cardea W T103

Idesco Oy reserves the right to revise this publication and to make changes to its content as well as the right to change or discontinue these products, at any time, without obligation to notify any person or entity of such revisions or changes. All trademarks and registered trademarks are property of their respective owners.
19.8.2026, C00961E v.1.03

Idesco Oy

Elektroniikkatie 4
90590 Oulu
Finland

Tel. +358 (0)20 743 4175
Email info@idesco.fi
idesco.fi

