8 CD 2.0

BASIC
110 x 43 x 24 mm

SLIM
141 x 43 x 19 mm

DESKTOP
95 x 62 x 24 mm

VS
148 x 45 x mm
T: 25 mm with cable,
25 + 10 mm with connector

VM
126 x 84 mm
T: 28 mm with cable,
28 + 9 mm with connector

MODULE
72 x 37,8 x 18 mm

COMPACT MODULE
40,9 x 39 mm
(more information about 8 CD 2.0
Compact available in a
separate product datasheet)

DESIGN
FROM
FINLAND ®

Product features and benefits

- Eco-sensitive construction - less epoxy and lower power consumption

- Profoundly convenient configurations - no uninstalling or power-down required

- Powerful, unique and customisable security features you choose and program yourself

- Open technology: no device supplier or technology dependencies

- Compatible with your current MIFARE® DESFire card population

- Robust, reliable, flexible and utterly secure capability

- Easy and convenient technology and security level migrations

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Electrical specifications

Operating frequency	13,56 MHz
Voltage	+10 …. +30 VDC
Power consumption	Basic, Slim, Desktop: max. 1,4 W in Idesco default configuration. VM, VS: max. 1,7 W in Idesco default configuration
Keypad type	Available as separate products 8 CD 2.0 Slim Pin, 8 CD 2.0 VS Pin and 8 CD 2.0 VM Pin

Supported card 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 emulation mode)
Additional Security feature for DESFire	Support for Desfire EV1 & EV2 & EV3 Random UID
UID selection	Reader can be configured to read 4-byte and/or 7-byte UID's. For improved security, UIDs can be disabled

Mechanical specifications

Housing material	Plastic
Installation method	With screws. VM can also be installed to a standard electrical socket with screws
Cable	LIYY
Cable length	3 m
Connectors	Basic, Slim, VM and VS (pigtail as a default)
Colour	Black
Customized versions	Yes, with sticker or lens or customer specific programming
Protection class	Units with cable; IP67. Units with connector; IP54
IK-rating	Basic: IK-10; Slim, VM, VS: IK-09
Flammability class	Basic, Slim, VM and VS housings: Horizontal specimen UL94 HB, vertical specimen UL94 V-2

![Idesco logo]

Take control of your overall security.

Environmental specifications

Operational temperature range	Basic and Slim: -40 C° - +55 C°; VM and VS: -30 C°- +55 C°
Storage temperature range	Basic and Slim: -40 C° - +55 C°; VM and VS -30 C°- +55 C°

Interface specifications

Available interfaces	Wiegand, RS-232, Clock & Data, USB, USB HI
OSDPV2	Available as separate product version 8CD 2.0 OSDP v2
RS-485 options	Idesco RS-485: Available as separate product version 8 CD 2.0 5 (not available for VM or VS). Idesco RS-485 with AES: Available as separate product version 8CD 2.0 AES (not available for VM or VS)
Clock & data format	10 BCD format for MIFARE® Classic sectors and for MIFARE® Desfire application
Inputs / Outputs	1 General purpose input / 2 outputs

Standards and regulations

EMC	Meets CE requirements
Field strength	According to EN300330
Encryption	AES or triple DES

Other features

LEDs and LED control	Basic, Slim, Slim Pin; Three-colour; VM, VS, VS: RGB. Led modes can be configured. Led can also be controlled by wire or by protocol commands (RS485)
Buzzer and buzzer control	Yes. Buzzer modes can also be configured. Buzzer can also be controlled by wire or by protocol commands (RS485)
Optical tamper	Configurable optical tamper
Alive message	For Wiegand 4, 6 and 8 -bit and a detailed 38-bit option. For C&D a fixed format
Re-read delay	Adjustable
Configuration	With Mobile Coder app or one DESFire EV1 / EV2 / EV3 configuration card; Configure only after reset option; via Mobile Coder app or configuration card
Value file support	Reader can be set to credit / debit value from value file cards

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