

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)



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



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, and proximity EV2, EV3 |
| UID selection | Reader can be configured to read either 4 or 7 Byte UIDs, or both. For improved security UID reading 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 |

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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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