

# 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  
Thickness: 25 mm with  
cable,  
25 mm + 10 mm with  
connector



**VM**  
126 x 84 mm  
Thickness: 28 mm with  
cable,  
28 mm + 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 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.<br>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.<br>VM can also be installed to a standard electrical socket with screws     |
| Cable               | LIYY 3m  |
| 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.<br>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 8CD 2.0 5 (not available for VM or VS).<br>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.<br>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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