# IDESCO

# 8 CD 2.0

Desktop   Basic   Slim   VS   VM   Module   Compact Module

## Product features and benefits

- Eco-sensitive construction
- 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 of technology dependencies
- Compatibility with your current MIFARE® card population
- Robust, reliable, flexible and utterly secure standalone capability
- Easy and convenient technology and security level migrations

8 CD 2.0 is a highly configurable, secure access control reader supporting DESFire and MIFARE Plus technologies. With sector reading capabilities, it is suitable for multi-applications. This flexible reader is actually many readers inside one - it can be upgraded into another technology or into another security level later on. You don't even need to uninstall the reader for configuration. All configurations from technology migrations to security key and bit length changes can be made only by exposing it to a secure, authorized configuration card. You can create configuration cards and transponders by a user-friendly Idesco DESCoder tool. This powerful reader is convenient and easy to deploy since it it supports all MIFARE® transponders. Connect it to your existing MIFARE® system and it will flawlessly read the MIFARE® cards you already have deployed. 8 CD 2.0 has also standalone capability which means that it can be deployed to control (e.g. electric locks) independently, according to the access rights programmed on a transponder. 8 CD 2.0 supports also DESFire EV1/EV2 & EV3 Random UID, which is an important additional security feature protecting the card data during reading transaction.

This flexible reader with new generation access control features and capabilities is available with several housing options.

# Technical specifications

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|---|---|
| Operating Frequency | 13,56MHz |
| Voltage | +10 .... +30 VDC |
| Current Consumption | 20 mA @ 24 VDC, max 60 mA |
| RFID chip support | MIFARE® DESFire EV1 & EV2 & EV3: UID + Application files , MIFARE® Classic: UID + Sectors, MIFARE® Ultralight UID + Pages, MIFARE® Plus UID security levels 1 and 3, MIFARE® SmartMX (MIFARE® Classic emulation mode), NFC |
| 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 inproved security, UIDs can be disabled |
| Dimensions of housing (hxwxd) | Desktop: 95 x 62 x 24 mm, Basic: 110 x 43 x 24 mm, Slim: 141 x 43 x 19 mm, Module: 72 x 37,8 x18 mm, Compact Module: 40,9 x 39 mm (more information about 8 CD 2.0 Compact in a separate product datasheet). VM; W: 85 mm x H:126 mm. Thickness: 28 mm (with cable), 28 mm + 8,5 mm (with connector). VS; W: 45 mm x H: 148 mm. Thickness: 30 mm + 2 mm (with cable), 30 mm + 10 mm (with connector) |
| Material of housing | Plastic |
| Installation method | VM: To a standard electrical socket with screws |
| Colour | Black |
| Customized versions | Yes, with sticker |
| Protection class | IP67, with the pigtail cable option<br>IP54, with the connector option |
| IK-rating | Basic: IK-10. Slim, VM and VS: IK-09 |
| Inflammatory class | Basic and Slim housings: Horizontal specimen UL94 HB, vertical specimen UL94 V-2 |
| Operational temperature range | -40 °C - +55 °C, VM/VS -30 °C- +55 °C |
| Storage temperature range | -40 °C - +55, °C VM/VS -30C- +55 °C |
| I/O's | 2<br>1 General purpose input |
| RS-232 | Yes |
| Wiegand | Yes |
| Idesco RS-485<br>Idesco RS-485 with AES | Available as separate product version 8 CD 2.0 5 (not available for VM / VS)<br>Available as separate product version 8 CD 2.0 AES (not available for VM / VS) |
| OSDP v2 | Available as separate product version 8 CD 2.0 OSDP v2 |
| USB | Yes |
| USB Hi | Yes |
| Clock & data | 10 BCD format for MIFARE® Classic sectors and for Mifare DESFire application |
| EMC | Meets CE requirements |
| Field strength | According to EN300330 |
| Encryption | AES or triple DES |
| Cable | LIYY 3m, delivered only with pigtail reader |
| Connector option | Basic, Slim, VM and VS (pigtail as a default) |
| Led | Three-colour (LED modes can also be configured) |
| LED control | By wire or by protocol commands (RS485) |
| Buzzer | Yes (Buzzer modes can also be configured) |
| Buzzer control | By wire or by protocol commands (RS485) |
| Optical Tamper | Yes, configurable |
| 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 | Configuration by DESFire EV1/EV2/EV2 configuration card or Mobile Coder phone app<br>Configure only after reset option |
| Value file support | Reader can be set to credit / debit value from value file cards |