

## 8 CD 2.0



### 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 or 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 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

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 improved security, UIDs can be disabled
Dimensions of housing (hwxwd)	Desktop: 95 x 62 x 24 mm, Quattro N: 85,1 x 85,1 x 24 mm, Basic: 110 x 43 x 24 mm, Slim: 141 x 43 x 19 mm, 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). VM; W: 84 mm x H:120 mm. Thickness: 24 mm + 2 mm (with cable), 24 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	Quattro N and VM: To a standard electrical socket with screws
Colour	Black
Customized versions	Yes, with sticker
Protection class	IP67, with the pigtail cable option IP54, with the connector option
IK-rating	Basic: IK-10. Slim, Quattro N, VM and VS: IK-09
Inflammatory class	Basic, Slim, Quattro and Desktop 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 1 General purpose input
RS-232	Yes
Wiegand	Yes
Idesco RS-485 Idesco RS-485 with AES	Available as separate product version 8CD 2.0 5 (not available for VM / VS) Available as separate product version 8CD 2.0 AES (not available for VM / VS)
OSDP v2	Available as separate product version 8CD 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, Quattro N, 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	Only one DESfire EV1/EV2/EV3 conf card required Configure only after reset option
Value file support	Reader can be set to credit / debit value from value file cards