



# 8 CD 2.0 MI

BLE/NFC-compatible multi-interface DESFire reader for mobile access

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## Product features and benefits

- Secure access control reader with support for BLE/NFC mobile transactions
- Secure 128-bit encrypted data transfer between smartphone and reader
- Transacts traditional MIFARE transponders and mobile credentials
- Keypad option for pin codes provides additional security
- Easily configurable, shift from one technology to another with a configuration card
- Low power consumption and long life-span

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8 CD 2.0 MI is both a highly secure and remarkably flexible DESFire access control reader that also supports BLE and NFC mobile transactions. It reads both traditional transponders as well as mobile credentials in your smartphone.

Mobile access with a smartphone isn't only convenient and user-friendly. It is also secure and easy to manage. Idesco's 8 CD 2.0 MI supports either BLE (Bluetooth Low Energy) or NFC (Near Field Communication) smartphone transactions. Mobile transactions are just as secure as with conventional transponders. Finally, the reader's keypad versions let you opt for pin codes to provide the last bit of security to users transacting with their smartphones.

8 CD 2.0 MI also lets you flexibly decide when to offer mobile access to your users. It supports all MIFARE® transponders from Classic UID to DESFire applications while simultaneously remaining fully compatible with mobile transactions. It reads UID in all ISO 14443 A type cards. You may also opt to configure it later for mobile transactions. It's fast and simple; 8 CD 2.0 MI quickly and conveniently re-configures while powered and installed. You can use either configuration card or Mobile Coder app, installed in your NFC-capable smartphone.

Secure, flexible and convenient; 8 CD 2.0 MI retains all the features you rely on in an Idesco reader: IP67 protection class from frost, moisture and dust, and impact-resistant construction.

8 CD 2.0 MI is compatible with Idesco ID mobile access solution.

## Technical specifications

Operating Frequency	13,56MHz
Voltage	+10 .... +30 VDC
Current Consumption	30 mA @ 24 VDC, max 60 mA, VM/VS: 45mA @ 24VDC, max 90mA
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).
Additional Security feature for DESfire	Support for DESFire EV1 & EV2 & EV3 Random UID
UID selection	Reader can be configured to read either 4 or 7 Byte UIDs, or both.
Keypad	2 x 6 Capacitive, VM: 3 x 4 (mechanical) VS: 2 x 6 (mechanical)
Dimensions of housing (hwxwd)	Basic: 110 x 43 x 24 mm, Slim & Slim Pin: 141 x 43 x 19 mm, VM; W: 84,48 mm x H:126,25 mm. Thickness: 28 mm (with cable), 28 mm + 8,5 mm (with connector), VS; W: 44,96 mm x H: 148,3 mm. Thickness: 25,3 mm (with cable), 25,3 mm + 10 mm (with connector)
Material of housing	Plastic
Colour	Black
Installation method	VM: To a standard electrical socket with screws
Customized versions	Yes, with sticker or lens
Protection class	IP67: with the pigtail cable option, IP54: with the connector option
IK rating	Basic: IK-10, Slim, Slim Pin: IK-09, 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 -30 °C- +55 °C
I/O's	2 1 General purpose input
Interfaces	RS-232, Wiegand, Clock & Data, OSDP v2
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	Yes, pigtail as default
Led	Three-colour (LED modes can also be configured), VM/VS: RGB
Led control	By wire
Buzzer	Yes (Buzzer modes can also be configured)
Buzzer control	By wire
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	With Mobile Coder app or one DESFire EV1 / EV2 / EV3 configuration card Configure only after reset option
Value file support	Reader can be set to credit / debit value from value file cards
Default BLE configuration	Idesco ID - Entry Level with security level 2
<b>BLE / NFC requirements - Android</b>	
Operating system	Android 5.0 or higher
Bluetooth	BLE 4.1 or higher
NFC	By Android: 5.0 or higher
<b>BLE / NFC requirements - iOS</b>	
Operating system	iOS 10 or higher
Bluetooth	4.1 or higher
NFC	Not supported by Apple