

## 8 CD 2.0 MI



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

## 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, or either
- · Keypad option for pin codes provides additional security
- Easily configurable, shift from one technology to another with a configuration card
- Extremely low power consumption up to 60 % more energy-efficient

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. While Idesco's 8 CD 2.0 MI supports either BLE (Bluetooth Low Energy) or NFC (Near Field Communication) smartphone transactions, the downloadable mobile app secures users' credentials in their phones and during transactions with Idesco's reader. Creating and managing permanent, temporary, or even single-use mobile privileges for your site's users is convenient using a cloud-based application you control. 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. As a fully functional DESFire reader, it supports all MIFARE® transponders from Classic UID to DESFire applications while simultaneously remaining fully compatible with mobile transactions. You may also opt to configure it later for mobile transactions. It's simple; 8 CD 2.0 MI quickly and conveniently re-configures while powered and installed with config card.

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.

## **Technical specifications**

Operating Frequency	13,56Mhz
Voltage	+10 +30 VDC
Current Consumption	30 mA @ 24 VDC, max 60 mA
RFID chip support	MIFARE® DESFire EV1 & EV2: 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), Mifare Classic 7 Byte UID + sectors
Additional Security feature for DESfire EV1	Support for DESFire EV1 & EV2 Random UID
UID selection	Reader can be configured to read either 4 or 7 Byte UIDs, or both.
Keypad	2 x 6 Capacitive, 3 x 4 mechanical
Dimensions of housing (hxwxd)	Quattro Pin SD, Quattro N : 85,1 x 85,1 x 24 mm, Basic: 110 x 43 x 24 mm, Slim & Slim Pin: 141 x 43 x 19 mm
Material of housing	Plastic
Colour	Black
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, Quattro N: IK-09
Inflammatory class	Horizontal specimen UL94 HB, vertical specimen UL94 V-2
Operational temperature range	-40 °C - +55 °C
Storage temperature range	-40 °C - +55 °C
I/O's	2 FET outputs (for tamper control and general), max 500 mA 1 General purpose input
Interfaces	RS-232, Wiegand, Clock & Data
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)
Led control	By wire
Buzzer	Yes (Buzzer modes can also be configured)
Buzzer control	By wire
Optical Tamper	Yes, configurable
Alive message	Options for 4- bit, 6- bit, 8- bit and 38-bit message
Re-read delay	Adjustable
Configuration	Only one DESfire EV1 conf card required Configure only after reset option
Value file support	Reader can be set to credit / debit value from value file cards
Default BLE configuration	Idesco Mobile Lite with security level 2
BLE / NFC requirements - Android	d
Operating system	Android 5.0 or higher
Bluetooth	BLE 4.1 or higher
NFC	By Android: 5.0 or higher
BLE / NFC requirements - iOS	
Operating system	iOS 10 or higher
Bluetooth	4.1 or higher
NFC	Not supported by Apple

Eco 20 is a new generation of Idesco products. Eco 20 stands for less power consumption, improved connectivity with other products and smaller carbon footprint through sustainable manufacturing materials and methods.