

8 CD 2.0 Pin



Product features and benefits

- Secure access control reader with pin code identification
- Highly configurable, shifts from technology to another easily by a configuration card
- Extremely low power consumption
- Eco-sensitive construction

8 CD 2.0 Pin 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 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 Pin 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 Pin supports also Desfire EV1 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. Dimensions of Slim housing enable installation on standard sized door frames, and Quattro SD and VM housings fit on standard electric sockets. Quattro SD and VM & VS Pin with raised, moving keypad provide a tactile feedback when pressing, whereas Slim Pin keypad doesn't have moving keys.

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: 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 (UID), Mifare Classic 7 Byte UID + sectors. Mifare DESFire EV2: UID+application files.
Additional Security feature for DESfire EV1	Support for Desfire EV1 and EV2 Rnd UID
UID selection	Reader can be configured to read either 4 Byte or 7 Byte UID's. Also both can be set on simultaneously.
Keypad	2 x 6 Capacitive (Slim Pin) 2 x 6 moving keypad with a dot on key 5 (VS Pin) 3 x 4 Mechanical (SD) 3 x 4 moving keypad with a dot on key 5 (VM Pin)
Dimensions of housing (hwxwd)	Slim Pin: 141 x 43 x 19 mm Quattro Pin SD: 85,1 x 85,1 x 24 mm VM Pin; W: 84,48 mm x H:126,25 mm. Thickness: 28 mm (with cable), 28 mm + 8,5 mm (with connector). VS Pin; 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
Customized versions	Yes, with sticker
Protection class	IP67: with the pigtail cable option, IP54: with the connector option Quattro Pin SD: IP55 with the pigtail cable option, IP54 with the connector option
IK rating	Slim Pin, VM Pin and VS Pin: IK-09
Inflammatory class	Slim and Quattro housings: Horizontal specimen UL94 HB, vertical specimen UL94 V-2
Operational temperature range	-40 °C - +55 °C, VM and VS Pin -30 °C - +55 °C
Storage temperature range	-40 °C - +55 °C, VM and VS Pin -30 °C - +55 °C
I/O's	2 FET outputs (for tamper control and general), max 500 mA 1 General purpose input
RS-232	Yes
Wiegand	Yes
Idesco RS-485 Idesco RS-485 with AES OSDP v2	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) Available as separate product version 8CD 2.0 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	L1YY 3m, delivered only with pigtail reader
Connector option	Yes, pigtail as default
Adapter option	Yes (Slim Pin), pigtail as 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	Options for 4- bit, 6- bit, 8- bit and 38- bit message (Wiegand)
Re-read delay	Adjustable
Configuration	Only one DESfire EV1/EV2 conf card required Configure only after reset option
Value file support	Reader can be set to credit / debit value from value file cards

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.



Idesco Oy reserves the right to revise this publication and to make changes to its content as well as the right to change or discontinue these products, at any time, without obligation to notify any person or entity of such revisions or changes. All trademarks and registered trademarks are property of their respective owners. 30.09.2020. C00446E v.1.18.