8 CD 2.0 MI

BASIC
HxWxD: 110 x 43 x 24 mm

SLIM
HxWxD: 141 x 43 x 19 mm

SLIM PIN
HxWxD: 141 x 43 x 19 mm

VM
HxW: 126 x 85 mm
D: 28 mm w/cable;
28 +8,5 mm w/connector

VM PIN
HxW: 126 x 85 mm
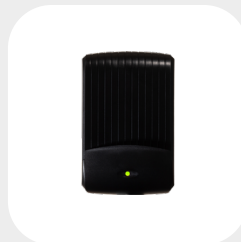D: 28 mm w/cable;
28 + 8,5 mm w/connector

VS
HxW: 148 x 45 mm
D: 25,3 mm w/cable
25,3 +10 mm w/connector

VS PIN
HxW: 148 x 45 mm
D: 25,3 mm w/cable
25,3 +10 mm w/connector

DESKTOP
95 x 62 x 24 mm

DESIGN FROM FINLAND ®

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
- Also transacts with traditional MIFARE DESFire tags and cards
- Keypad option for pin codes provides additional security
- Easily configurable, shift from one technology to another
- Low power consumption and long life-span

Electrical specifications

Operating frequency	13,56 MHz
Voltage	+10 .... +30 VDC
Keypad type	Slim Pin: 2x6 Capacitive; VM Pin: 3x4 Mechanical; VS Pin; 2x 6 Mechanical
Current consumption	Basic, Slim, Desktop: 10-30 VDC max. 1,4 W in Idesco default configuration; VM, VS: 10-30 VDC max. 1,7 W in Idesco default configuration; Slim Pin: 10-30 VDC max. 1,7 W in Idesco default configuration; VM Pin and VS Pin: 10-30 VDC max. 2,5 W in Idesco default configuration

Supported card technologies

RFID chip support	MIFARE® DESFire EV1 & EV2 & EV3; UID + Application files; MIFARE® Classic; UID + Sectors; MIFARE® Ultralight; UID + Pages; MIFARE® Plus X, S, SE, Ev1, Ev2; 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, and proximity EV2, EV3
UID selection	Reader can be configured to read either 4 or 7 Byte UIDs, or both. For improved security UID reading can be disabled.

Mechanical specifications

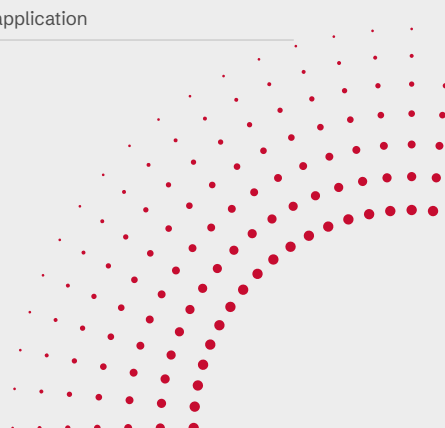|	
Housing material	Plastic
Installation method	With screws. VM and VM Pin can also be installed to a standard electrical socket with screws.
Cable	LIYY
Cable length	3 m
Connectors	Yes, pigtail as default
Colour	Black
Customized versions	Yes, with sticker or lens or customer specific programming
Protection class	Units with pigtail cable, IP67; Units with connector; IP54
IK-rating	Basic, Desktop: IK-10, Slim, Slim Pin, VM, VM Pin, VS, VS Pin; IK-09
Flammability class	Basic, Desktop, Slim, Slim Pin, VM, VM Pin, VS and VS Pin housings; Horizontal specimen UL94 HB, vertical specimen UL94 V-2

Environmental specifications

Operational temperature range	Basic, Desktop, Slim, Slim Pin; -40C - +55 C; VM, VM Pin, VS, VS Pin; -30C- +55C
Storage temperature range	Basic, Desktop, Slim, Slim Pin; -40C - +55 C; VM, VM Pin, VS, VS Pin; -30C- +55C

Interface specifications

Available interfaces	RS-232, Wiegand, RS485 (OSDPv2), Clock & data
Clock & data format	10 BCD format for MIFARE Classic sectors and for MIFARE DESFire application
Inputs / Outputs	1 general purpose input / 2 outputs

Idesco Oy

Standards and regulations

EMC	Meets CE requirements
Field strength	According to EN300330

Other features

LEDs and LED control	Basic, Slim, Slim Pin: Three-colour; VM, VM Pin, VS, VS Pin: RGB LED modes both configurable and controllable via wire or protocol commands (RS485).
Buzzer and buzzer control	Yes. Modes both configurable and controllable via wire or 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	With Mobile Coder app, via OSDPv2 or one DESFire EV1 / EV2 / EV3 configuration card; Configure only after reset option; via Mobile Coder app or configuration card
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

BLE-NFC Requirements - Android

Operating system	Android 5.0 or higher
Communication	Bluetooth; BLE 4.1 or higher, NFC by Android; 5.0 or higher

BLE-NFC Requirements - iOS

Operating system	iOS 10 or higher
Communication	Bluetooth; 4.1 or higher, NFC not supported by Apple

Idesco Oy

Elektroniikkatie 4
90590 Oulu
Finland

Tel. +358 (0)20 743 4175
Email info@idesco.fi
idesco.fi