

Access DESFire

Security and flexibility



Access DESFire reader improves security in access control by providing pin code identification to be used together with the DESfire identification card. Access DESFire reader is an excellent choice for modern multi-applications with high requirements for both security and configurability. The reader is available also without the keypad option.

Access DESFire reader is freely configurable enabling the customer to build their own applications flexibly. Access DESFire reader reads compatible application specific data from one selected application and from selected file of the Mifare® DESFire transponders. Alternatively, for maximum security, the reader can be set to send out the data string combined from several data blocks stored to different files. Authentication keys can also be defined independently for different files (max 7 keys). A DESFire configuration card defined by Idesco or by the customer is used for programming the required reader output, application specific triple DES keys, application AID and file number to be read. Also the required data length can be defined according to individual application demands. In case there is no defined application in the card the reader can also be configured to send out the 7 byte serial number of the card.

Reader keypad is based on the capacitive sensing technology. The keypad has configurable backlight LED's which illuminate the keypad. The pin codes can be sent out in 4-, 6-, 8-, 24- and 32- bit formats. Customers can configure the pin code length with a configuration card. The reader has also an optical tamper switch option. The reader can also be customized by adding a customer logo to the sticker.

DESFire Coder Unit:

The special Access DESFire Coder Unit can be used to create applications inside the DESfire cards. With the DESFire Coder Unit the customer can define their own application AID numbers, file numbers, file lengths and security tripleDES keys. With the DESFire Coder Unit customers define also what key (s) are used for data file reading. The same coder is also used to create configuration cards for the Access DESFire reader.

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Specifications

Operating frequency	13,56 MHz
Voltage	24VDC (+5VDC +30VDC) with cable lenght longer than 100 meters (+10... +30 VDC)
Current consumption	20 mA @ 24 VDC, max 60mA
RFID chip support	DESFire: UID + Application files MIFARE Classic: UID + Mifare Sectors Ultra Light UID, Mifare Plus UID Mifare Smart MX
Interfaces	RS-232, Wiegand, RS-422
Material of housing	Plastic
Dimensions of housing (hwxwd)	85 x 85 x 24
Colour	Black
Key pad (in key pad version)	3 x 4 / 2 x 6 Capacitive
Key pad backlights	Control by wire (ON/OFF) configurable (in key pad ver.)
Installation method	To an electrical socket with screws
Customization	Possible with customer specific stickers
Operating temperature	-40...+55 °C, storage -40...+55 °C
Protection class	IP67, with the cable option
Cable	LIYY 3 m
Connector option	Yes (pigtail as standard)
Led	Tricolor, control by wire
Buzzer	Yes, control by wire
Field strength	According to EN300330
EMC	Meets CE requirements
Optical Tamper	Set on / off with Desfire conf. card



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. www.idesco.fi/eco20