readID™ Wall E
SE 1090

Outdoor Reader for
MIFARE® DESFire® with Keypad

Functional description

The readID™ Wall E is the first model in series of wall mounted card reader for both in- and outdoor use. The card reader is a 13,56 MHz ISO14443A based solution for reading of MIFARE® Classic, MIFARE® Ultralight and MIFARE® DESFire® family of cards and tags.

The capacitive touch PIN pad with white backlight and the full RGB colored status LED has automatic ambient light compensation.

Connection to the access control panel is available via Wiegand, Clock/Data, OSDP and Custom RS485 interface depending on the actual firmware and configuration.

In-field configuration is available via a USB interface that allows for both firmware update and changing of configuration.

The tamper detection function monitors the opening of the card reader with a mechanical switch.
The mounting plated for readID™ Wall E is designed to fit onto European backboxes, Danish backboxes or directly on the wall.

Product versions:

- SE 1090 DKT readID™ Wall E, MIFARE DESFire, Keypad & Terminal
- SE 1090 DKC readID™ Wall E, MIFARE DESFire, Keypad & Cable
- SE 1090 DKCO readID™ Wall E, MIFARE DESFire, Keypad & Cable (OSDP)
- SE 1090 DT readID™ Wall E, MIFARE DESFire & Terminal
- SE 1090 DC readID™ Wall E, MIFARE DESFire & Cable
- SE 1090 DCO readID™ Wall E, MIFARE DESFire & Cable (OSDP)
- SE 1090 DKTW readID™ Wall E, MIFARE DESFire, Keypad & Terminal, White
- SE 1090 DKCW readID™ Wall E, MIFARE DESFire, Keypad & Cable, White
- SE 1090 DTW readID™ Wall E, MIFARE DESFire & Terminal, White
- SE 1090 DCW readID™ Wall E, MIFARE DESFire & Cable, White

CARD TECHNOLOGY	DATA TYPES	DATA	DATA FORMAT
NXP MIFARE® Classic	Sector data or UID/CSN	32, 56 & 128 Bit	26,32,56 Bit Hex/ Dec/ASCII/Rev
NXP MIFARE® Ultralight	UID/CSN	56 & 8-256 Bit	26,32,56 Bit Hex/ Dec/Rev
NXP MIFARE® DESFire®	App/File data or UID/CSN	32 & 56 Bit	26,32,56 Bit Hex/ Dec/Rev
ISO 14443A	UID/CSN	32 & 56 Bit	26,32,56 Bit Hex/ Dec/Rev

Security Engineering ApS
Mesterlodden 3B
DK-2820 Gentofte
Tel. +45 87 30 04 45
www.securityengineering.com

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How to order

When ordering a card reader please specify: product number & configuration in the following manor:

Version	SE 1090 DKT	readID™ Wall E, MIFARE DESFire, PIN pad & Terminal
Configuration	SE 1090 SFN	Format ID: xx , I/O = High / Low, PIN = 4bit, 8bit, 1 char, 2 char, OSDP

Selecting data format and interface type

The firmware in the readID™ Wall E reader allows for multiple output formats in order to interface seamlessly with the access controller.
The Clock/Data interface outputs the card number and PIN data using the ABA / Track 2 protocol.
The Wiegand interface outputs the card number and PIN data using common Wiegand formats including both 4 and 8 bits (Dorado) outputs for PIN pad data.
The RS485 interface is bi-directional half-duplex for use with OSDP compatible access controllers or can be supplied with support for custom protocols.
MIFARE Classic or MIFARE DESFire reading and / or writing can be configured using the seucu.exe configuration tool or via the OSDP protocol.

On site configuration requires seucu software, which is freely downloadable from *www.securityengineering.dk*
The current format list is available on the website.

Audio & visual indication

The readID Wall E card reader is equipped with a buzzer for acoustic indication and a full RGB color LED for visual indication.
Standard firmware allows for external control of Red, Green, Yellow, Blue LED and the Buzzer.

Firmware

The card reader can be firmware updated in field using the seufu.exe utility, which is freely downloadable from *www.securityengineering.dk.*
Standard firmware supports OSDP, Wiegand or Clock/Data Interface.

Data

Dimensions	89 x 87 x 16 mm (L x W x H)
Color	Black (RAL 9005) or White (RAL 9016)
Connection	10 way Detachable connector 10 way Fix mount screened cable (3m) 4 way Fix mount screened cable (3m) for OSDP
Supply Voltage	5 – 30 VDC / 50 mA
Temperatur Range	-30 C -> +70 C
IP Rating	IP54 or IP65 with seal between reader and wall
Commodity code	8471.60.90.30
Country of Origin	DK
ECCN code (US)	N
Export list number (EU)	N
Certification	CE & UKCA

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