

## mifare-Fingerkey-reader "Accentric"



### Biometric system

#### Reader and operating unit for:

- Intrusion detection systems
- Access control

The Fingerkey reader is a biometric system with which the personal fingerprint is used as an identifying characteristic in addition to the individual serial number of a data carrier. In "learning mode", the sensor scans the finger and saves the data for it on the personal data carrier (encrypted).

A fingerprint cannot be reproduced from stored data.

A person receives authorized access in normal operation, if finger data stored on the data carrier correspond with the currently scanned fingerprint.

#### Advantages of these methods:

- theoretically unlimited number of fingerprints possible (limited only by the maximum number of data carriers that the system can manage).
- instead of identification (1:n-comparison) only verification (1:1-comparison):
  - quick evaluation as no database search required
  - high recognition security (i.e. extremely low FRR False Rejection Rate and FAR False Acceptance Rate)

- up to 4 fingerprints (or 3 fingerprints + 1 PIN code) can be stored on a 4k mifare data carrier: The reader can be operated by another finger or the PIN code, if e.g. the "main finger" is injured.
- This creates an inseparable linkage of two identifying characteristics:
  - **material** (the serial number of the data carrier)
  - **biometric** (fingerprint)
 This procedure virtually eliminates the misuse of data carriers.
- Depending on the controller used, control functions and macros can be accessed via the keypad. If required (according to the security class of the object), the keypad can be used to generate a combination of PIN and data carrier.

The reader has different interfaces available, providing a wide variety of application options.

### Features

- Straightforward, logical operating concept.
- Simple start-up.
- A new evaluation procedure ensures extremely stable transmissions.
- Password protection of data carriers
- Scanning of a fingerprint by a high-quality thermal line sensor.
 

Therefore, no recognition problems:

  - if light conditions vary
  - if humidity is high
  - if sensor is contaminated
  - in electrical fields
  - with "Latent fingers" (visible fingerprint that remains after use)
- Synchronization of max. 4 operating units installed close to one another.
- Can be used indoors and outdoors at temperatures from -25 °C to +55 °C, Protection category IP54.
- Simple installation with two or three screws in the wall. The reader can also be mounted directly on ordinary commercial DIN flush mounted sockets.
- Easy to exchange/install in existing systems.
- VdS approval for IDS and ACS, Class C.

#### Special features of the keypad:

- International marking of the LEDs and keypad.
- Abrasion-resistant 10-digit keypad with 6 additional function keys.
- Tactile and acoustic feedback.
- Designed for use at night with timed background illumination.

#### LED indication:

The three LEDs of the reader (green, yellow, red/green) are controlled by the evaluating unit / control unit in normal operation. Depending on the evaluating or control unit used, the function is pre-assigned or can be programmed.

#### Interfaces:

- **RS-485** "Modulbus" protocol (ACS-8, IK3)
- **Clock/Data** Data protocol ACS-8, ACS-2 and ACT compatible


See the "Technical data" for further interface parameters.

## Technical Data

<b>Operating voltage</b>	12 V DC / 24 V DC
<b>Operating voltage range</b>	8 V to 30 V DC
<b>Current consumption at 12 V DC:</b>	
- in standby mode	<125 mA (average)
- Timed read/write mode	<160 mA (including status indicators)
<b>Mounting substrate</b>	any, including metal
<b>Transmission frequency</b>	13.56 MHz
<b>Transmission range</b>	>5 cm with ID cards (lower range with key fobs)
<b>Interfaces:</b>	
- RS-485	Bidirectional interface with "Modulbus" protocol Suitable for ACS-8, IK3 Evaluation unit Interface range up to 1200 m
- Clock/Data	Unidirectional interface TTL-level, 4 bit code according to DIN 9785, active = LOW Data protocol ACS-8, ACS-2, ACT compatible Interface range up to 200 m
<b>Connection cable</b>	12-wire shielded, 6 m
<b>Protection category as per DIN 40 050</b>	IP54
<b>Environmental class as per VdS</b>	III
<b>Operating temperature range</b>	-25 °C to +55 °C
<b>Housing dimensions (W x H x D)</b>	75 x 173 x 46 mm
<b>Color:</b> Housing	Basalt grey (similar to RAL 7012)
Bottom	Light grey (similar to RAL 7035)
<b>Data carriers</b>	mifare 4k cards and keychains, provided with a special code in factory

## Ordering informations



Item no.	Description
029341	<b>mifare-Fingerkey-reader "Accentiv" with keypad</b> RS-485 and Clock/Data interface  VdS approval: G108001, Class C (IDS) Z108001, Class C (ACS)

### Accessories

Item no.	Description
026363.02	<b>mifare card 4k, encoded for Fingerkey</b>
026363.07	<b>mifare keychains 4k, encoded for Fingerkey</b>
023502	<b>Sight and weather protection</b>



Only the mentioned data carriers are usable.

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