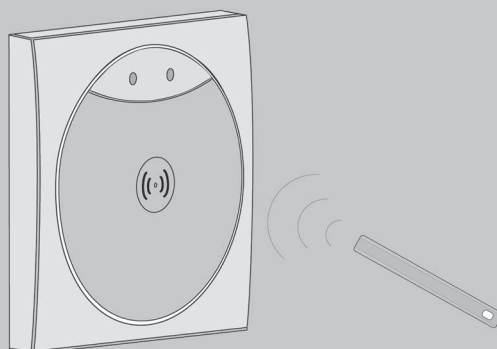


Montage- und Bedienungsanleitung
Mounting and Operating Instructions
Instructions de service et de montage
Istruzioni di montaggio ed uso
Instrucciones de montaje y de servicio

dialock
HÄFELE



Wandterminal Dialock (D)
Wall terminal Dialock (GB)
Terminal mural Dialock (F)
Terminale da parete Dialock (I)
Terminal mural Dialock (E)

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Scope of delivery

- Reader unit with back panel cover and screws (Fig. 1)
- Control unit (Fig. 2)
- Mounting frame (Fig. 3)
- These instructions

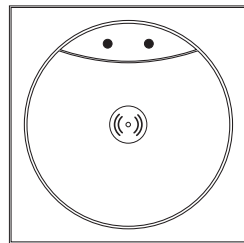


Fig. 1

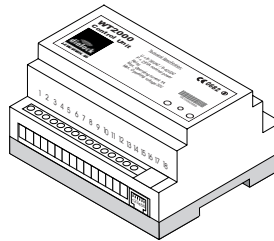


Fig. 2

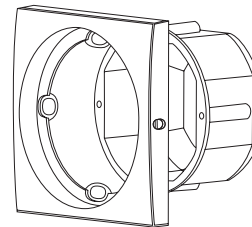


Fig. 3

English

Area of application

The wall terminal is part of the Dialock electronic locking system. It is an access-control system for outdoor and indoor use and can be used for a variety of purposes such as:

- Opening and closing doors by triggering electric door openers, motor locks, automatic doors etc.
- Triggering electrical equipment (e.g. roller shutters, car park barriers, furniture locks, lighting, alarm, and video surveillance systems).

Features

- Fully compatible with the Dialock system
- Macro-programmable
- Simple and convenient configuration via infra-red interface
- Possible extension of function through special firmware
- Separate reader and control units
- All the operating modes of the Dialock system

Installation instructions



Safety note

Before beginning installation, ensure that the power supply is switched off. The installation work should be done by a qualified electrician only, as complex wiring is required. Unsuitable tools may cause damage to the wall terminal.

Please note that the wall terminal is intended only for switching electrical equipment with max. 1 A continuous current and 2 A peak current (1 s max.).

Incorrect or incomplete installation may cause irreparable damage to the system.

English

Installation requirement

For installation, first determine suitable positions and locations for the reader and control units. This must take due account of the equipment being operated (e.g. door lock, barrier etc.). In addition, the recessed socket (fig. 4) for the reader unit and the cable must be installed as shown in the circuit diagram (Fig. 5).

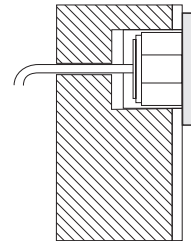


Fig. 4

Installation

The following operations are required:

- Installation of reader unit
- Installation of control unit
- Electrical installation

Installation of required cablework



Before installing, always remember to switch the power off.

For the installation of the electrical connections, observe the following connection diagrams.

English

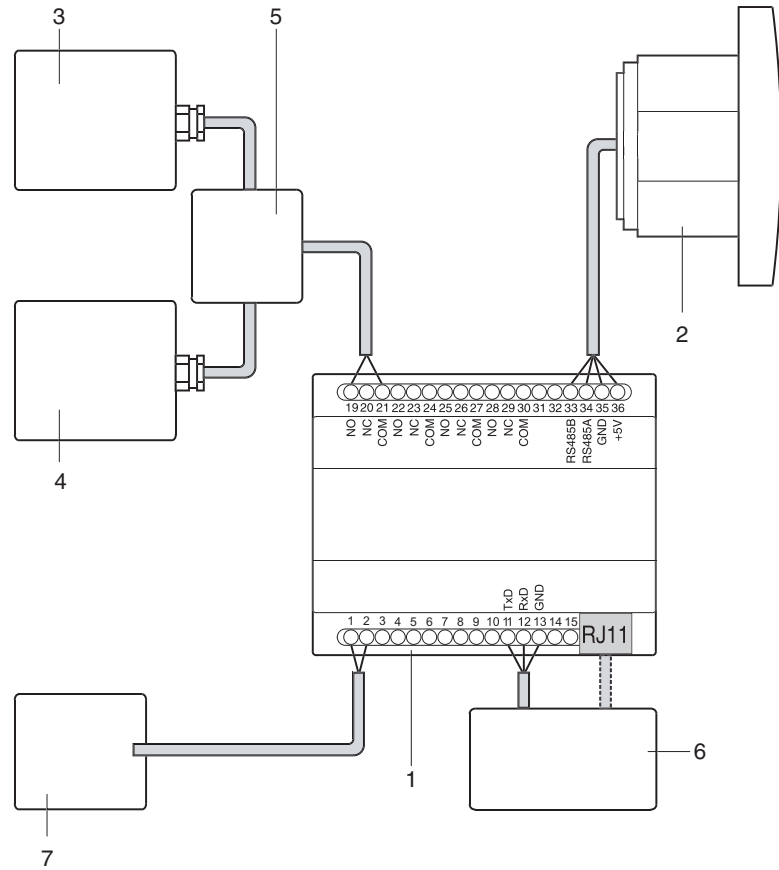
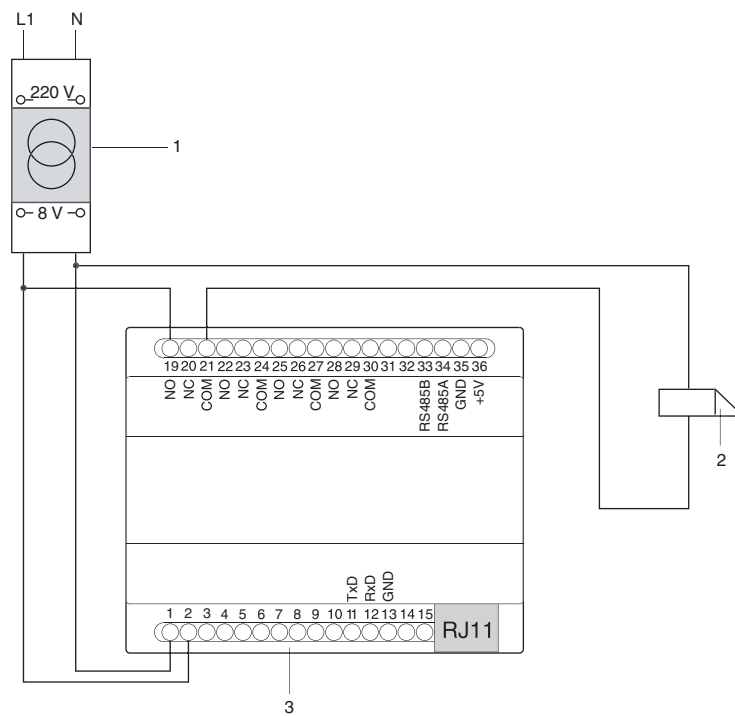


Fig. 5

- 1 Control unit
- 2 Reader unit
- 3 Equipment being switched (door, barrier)
- 4 Power supply for equipment being switched
- 5 Distributor
- 6 External CPU (e.g. PC) (optional)
- 7 Power supply for control and reader units

Example: Connecting an electric strike



English

Fig. 6

- 1 Power supply
- 2 Electric strike
- 3 Control unit

The connection between the reader and the control units can be made using a standard 4-core cable. We recommend using a standard electrical cable J-Y(St) Y 2 x 2 x 0.8 with a maximum length of 50 metres LEGIC / 35 metres Tagit ISO.

When installing several wall terminals, ensure that the distance between the reader units is at least 25 cm (fig. 7). If the distance is too low, the RF fields may overlap. This may cause that transponder media are no longer reliably detected.

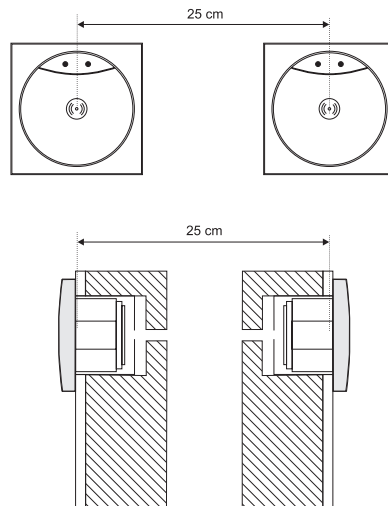


Fig. 7

Reader unit

| | |
|----------|----------------|
| <i>A</i> | <i>+5 V</i> |
| <i>B</i> | <i>GND</i> |
| <i>C</i> | <i>RS485 A</i> |
| <i>D</i> | <i>RS485 B</i> |

Table 1

Control unit


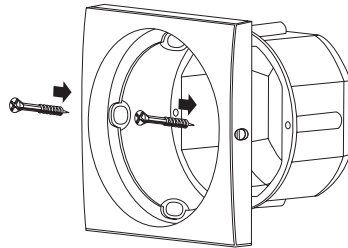
| | | |
|--------|---|---|
| 1 | Power supply 8-36 VAC | |
| 2 | or 9-40 VDC | |
| 3 | GND | |
| 4 | Input signal 1 | |
| 5 | GND | |
| 6 | Input signal 2 | |
| 7 | GND | |
| 8 | Input signal 3 | |
| 9 | GND | |
| 10 | Input signal 4 | |
| 11 | TxD | Serial interface RS 232 |
| 12 | RxD | |
| 13 | GND | |
| 14 | ISP | FLASH Program mode |
| 15 | GND | |
| 16 -18 | RJ 11 socket | Can be used in place of connection 11,12,13 Connection: 2: TxD 3: RxD 4: not connected 5: GND |
| |  | |
| 19 | NO (open) | Relay 1 |
| 20 | NC (closed) | |
| 21 | COM | |
| 22 | NO | Relay 2 |
| 23 | NC | |
| 24 | COM | |
| 25 | NO | Relay 3 |
| 26 | NC | |
| 27 | COM | |
| 28 | NO | Relay 4 |
| 29 | NC | |
| 30 | COM | |
| 31 | TTL1 | Digital output 1 (open collector) |
| 32 | TTL2 | Digital output 2 (open collector) |
| 33 | D: RS485B | Serial interface to reader unit |
| 34 | C: RS485A | and voltage supply for |
| 35 | B: GND | reader unit |
| 36 | A: +5V | |

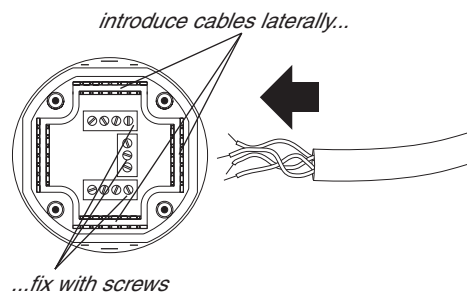
Table 2

Mounting the reader unit

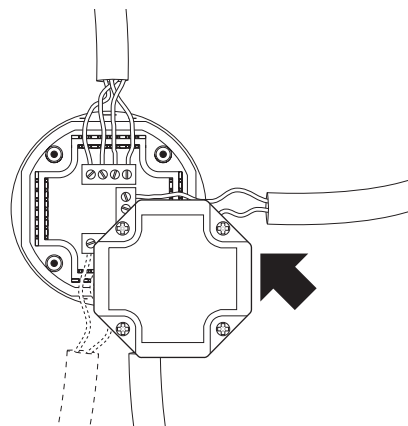
- Screw the mounting frame to the recessed socket



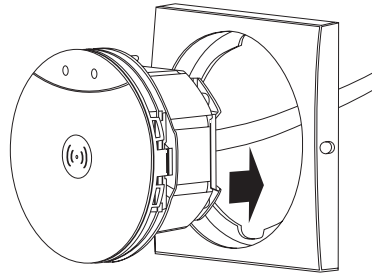
- Connect wires as shown in connection plan in table 1, page 24



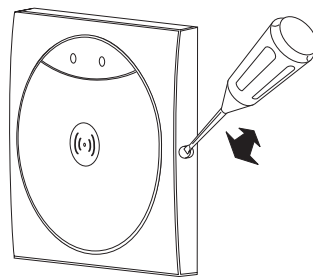
- Push cable into cable comb
- Attach and tighten the back panel cover



- Place the reader unit in the frame and push to snap in.



- To dismantle, push a screwdriver into the slot and lever the unit out as shown.



English

Mounting the control unit

The control unit may be damaged by use of unsuitable tools.

- The distance between the control and reader unit may be up to 50 metres.
- Mount the control unit on a standard rail (top-hat rail) in accordance with DIN EN 50022.



- Connect the wires as stated in table 2 page 25.
- If necessary, connect the recovery diode on the equipment being switched (door opener).

Easy start-up

The wall terminal is supplied in the so-called „simple mode“ for stand-alone (SA) operation. Only this mode is described in these instructions. Other operating modes are possible only after consultation with your dealer or service agent.



Ensure that the user keys are not misused by unauthorised persons. Keep the programming and deletion keys in a safe place, as these are used to assigning user keys.

At first start-up, the programming and deletion keys must be assigned as follows.



This step is possible only directly after the supply voltage has been switched on or after a total reset at the control unit. The first start-up must be carried out quickly and without interruption.

1. Keep the green programming key and the red deletion key ready.
2. If power is already being supplied to the control unit, switch the power off.
3. Switch on the power supply. The green LED flashes for a few seconds.



If no green programming key is presented within 5 seconds, and the red LED flashes, the sequence must be aborted. In this case no other key must be presented, and power must be turned off. Step 2 and 3 must be executed again.

4. Hold the green programming key in front of the reader unit while the green LED is flashing.
The green LED lights continuously after successful assignment. Remove the green key.
The red LED is flashing.

5. Hold the red deletion key in front of the reader unit while the red LED is flashing.
The red LED lights continuously after successful assignment.

If an error occurs during assignment:

- ⇒ Disconnect the power supply and then reconnect it. Perform total reset, if required (see page 32).
- ⇒ Re-assign programming and deletion keys.

If the error persists:

- ⇒ contact your service agent.

Instructions for use

Assignment of access rights to user keys

1. Hold the green programming key in front of the reader.
2. The green LED flashes.
3. Hold the user key being assigned in front of the reader within 5 seconds. The green LED lights up to indicate that the access right for the user key has been assigned.
4. Remove the user key.
5. Hold the next user key in front of the reader within 5 seconds. If no further user keys are presented, the unit switches off automatically.

Withdrawing access rights of a single user key

1. Hold the red deletion key in front of the reader.
The red LED flashes.
2. Hold the user key to be cancelled in front of the reader.
3. Hold the user key to be cancelled in front of the reader.
The red LED flashes once, the key has been cancelled.

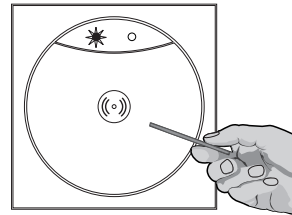
Withdrawing access rights of all user keys

When one user key is lost and should have no further access right, all the user keys must be cancelled. Subsequently, all user keys must be re-assigned.

1. Hold the red deletion key in front of the reader.
The red LED flashes.
2. Hold the green programming key in front of the reader.
The red LED flashes once.
All locking rights are cancelled.
3. Re-assign the user keys needed.

Operation

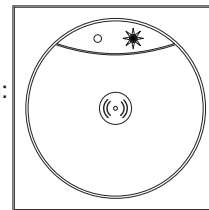
1. Hold the user key in front of the reader.
2. The green LED lights up.
The red LED goes off.
3. The equipment being switched (e.g. door opener) is unlocked.



1. Open
2. Stays open for 3 sec.

If the LEDs do not switch from red to green:
⇒ hold the user key closer to the reader.

If the LEDs still do not switch from red to green:
⇒ the user key has no access right.

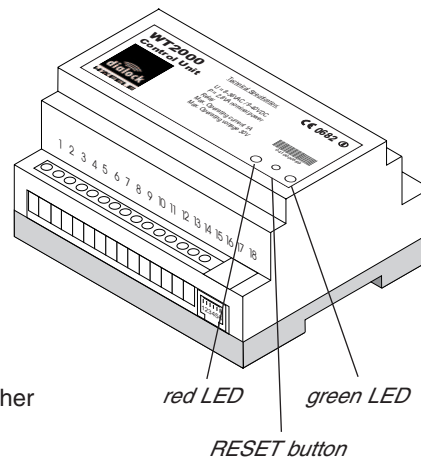


3. Locked

RESET

General:

The RESET button is located in the control unit beneath the housing cover between the two indicator LEDs. Using a pointed instrument, the button can be pressed through the top of the housing.



Sequence:

Both LEDs go off when the button is pressed. After 1 sec. the red LED begins to flash. After another 3 sec. it glows red continuously.

Total RESET (long RESET):

If the RESET button is pressed for longer than 4 sec. a total RESET takes place. This resets all the configuration data (basic settings) and cancels all data (including user data).

⇒ Release the RESET button when the red LED has stopped flashing.

Simple RESET (short RESET):

If the RESET button is pressed for longer than 1 sec. but less than 4 sec. a simple RESET takes place. This resets only the project code.

⇒ Release the RESET button while the red LED is flashing.

Processor RESET:

If the RESET button is pressed for less than 1 sec. a processor RESET takes place. This is the equivalent of switching the supply voltage off and on again. No data are cancelled or reset.

⇒ Release the RESET button before the red LED flashes.

FAQs

**I have lost a user key and wish to cancel it.
How do I go about it?**

If a user key gets lost and you wish to cancel its access right, you must cancel all the user keys at the reader unit. Subsequently, the access rights of all the user keys have to be re-assigned. See under: „Withdrawing access rights of all user keys“ (page 30).

**I have lost a programming key and wish to cancel it.
How do I go about it?**

Programming and deletion keys are assigned once at the first start up. There is only one of each. Programming and deletion keys can be cancelled by resetting the wall terminal. See „RESET“.

Technical data

| | | |
|---|-----------------------------------|---------------------|
| Voltage supply | DC voltage | 9 - 40 V |
| | AC voltage | 8 - 36 V |
| Continuous current consumption | < 150 mA | |
| Peak current consumption | 300 mA | |
| Number of relays | 4 | |
| Contact rating of relays | DC voltage | max. 60 V |
| | AC voltage | max. 125 V |
| | Peak current | max. 2 A (1s max.) |
| | Continuous current | max. 1 A |
| Switching power | max. 30 W / max.60 VA | |
| Data retention on power cut | 10 years | |
| Protective system | Reader unit | IP 65 |
| | Control unit | IP 20 |
| Operating temperature range | Reader unit | -20 °C ... + 70 °C |
| | Control unit | -20 °C ... + 70 °C |
| Relative humidity (non-condensing) | 0 - 95 % | |
| Cable length | (reader - control unit) max. 50 m | |
| Recommended cable | J-Y(St)Y 2 x 2 x 0.8 | |
| Max. conductor cross section (screw terminals) | Reader unit | 1.0 mm ² |
| | Control unit | 2.5 mm ² |
| Mounting of control unit | Top-hat rail to DIN EN 50 022 | |