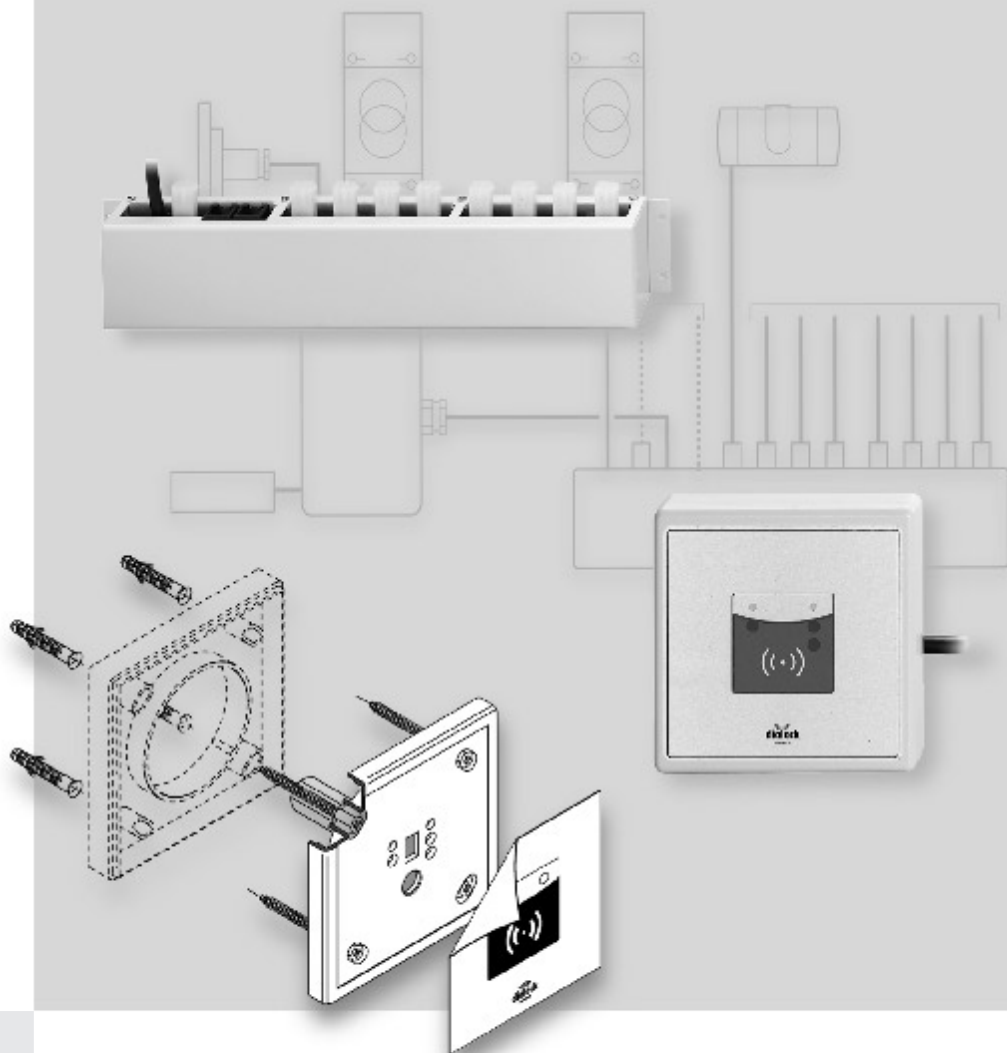


Montageanleitung
Mounting instructions
Instructions de montage
Istruzioni di montaggio
Instrucciones de instalación


dialock
HÄFELE



ZV-Terminal
CL terminal
Terminal VC
Terminale ZV
Terminal de CC

Areas of application

The Dialock central locking device (CL) is, within the Basic Solution and in stand alone mode, applied as follows:

- suitable for applications where the locking units have to be controlled individually
 - for smaller systems (recommended for max. 8 CL lock cases)
- Please contact your Dialock sales office in case another operation mode shall be chosen.

The CL terminal is suitable for flush fitted or surface installation.

Supplied with

The CL terminal is supplied with the following items:

Reader module

- an approx. 2.5 m long round flat-section cable including connector for connection to the control electronics module
- Front foil to stick onto the reader module
- Spacer plate for surface installation of the reader module

Control electronics module

- Screwed connections for the control electronics module casing
- Screwed PG-9 connections to connect the flat-section cable to the control electronics module
- Connecting tool for connection of cables to the control electronics module
- Spare connector for the flat-section cable

Output extender

- with 0.5 m connecting cable to the control electronics module

Note: Cascading cable for connection of additional output extenders must be ordered separately.

Technical Information

All CL terminals are preset to stand alone operation mode when supplied.

Locking authorisations can be allocated to electronic keys directly at the terminal via programming key stick in this mode.

Up to 1000 electronic keys can be allocated per CL terminal.

Series connection of up to 16 output extenders allows to connect max.

128 lock cases and to control them separately.

Please contact your Dialock sales office if a different operation mode shall be chosen.

CL terminal, Technical Data

Power supply	12 VAC
Continuous current consumption	< 200 mA
System of protection	
Reader module	IP 54
Control electronics module	IP 66
Operation temperature range	
Reader module	0 - 60 °C
Control electronics module	0 - 60 °C
Relative air humidity	0 - 95 %

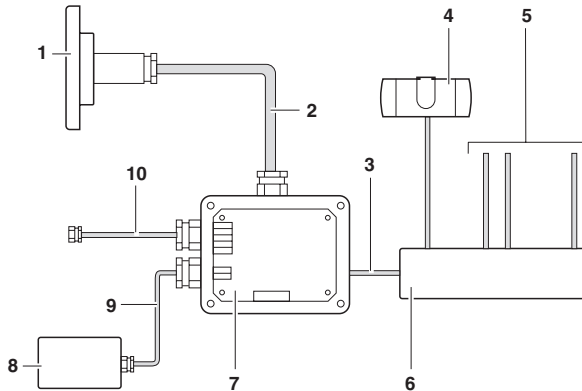
Output Extender Open Collector, Technical Data

Voltage supply	12 VAC
Continuous current consumption	30 mA
Output voltage	12 VDC
Additional current consumption per CL lock case	50 mA

Installation

The following steps are necessary for the installation:

- Install the reader module
- Install the control electronics module
- Electrical installation



- 1 Reader module
- 2 Flat-section cable (shielded, round type)
- 3 Cascade cable
- 4 CL lock case
- 5 Additional CL lock cases
- 6 Output extender
- 7 Control electronics module
- 8 Power supply for control electronics module
- 9 Power feed cable
- 10 Interface line RS-232 (optional)

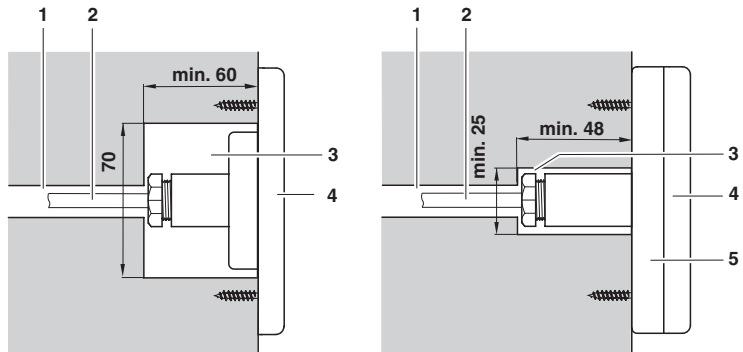
When planning, the following construction measures have to be taken in consideration:

- Exact place provided for the installation of the modules and position of the elements to be switched and controlled
- Surface installation or flush fitted installation of the modules
- Networking between the CL terminals and the central unit (PC) via online adapter (optional)

Installation of the reader module

Preparations:

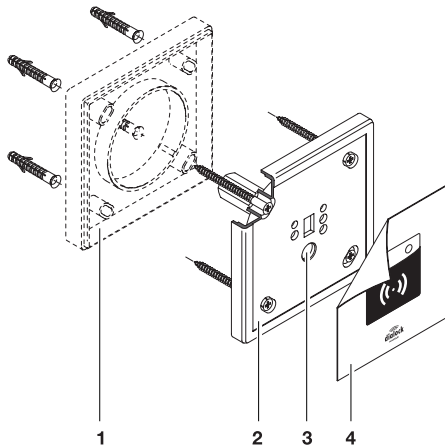
- Drill a hole into the brickwork for the connecting cable between reader module and control electronics module. Lay a cable duct or a protecting tube with a minimum internal diameter of 12 mm.
- Flush fitted installation: install the flush fitted box of 70 mm diameter with a minimum depth of 60 mm.
- Surface installation: drill a hole of 25 mm diameter with a minimum depth of 48 mm for the PG-9 screw-fixing.



Flush fitted installation (left hand) and surface installation (right hand) of the reader module

- 1 Protecting tube (min. internal diameter: 12 mm)
- 2 Cable (diameter = 8 to 9 mm, length = 2.5 m)
- 3 Flush fitted box, drill hole for the PG-9 screw-fixing connection resp.
- 4 Reader module
- 5 Spacer plate

1. For flush fitted installation: drill a hole of 12 mm diameter in the centre of the flush fitted box.
2. For surface installation: remove the spacer plate of the reader module.



- 1 *Spacer plate*
- 2 *Reader module*
- 3 *10 mm hole*
- 4 *Front foil*

3. For brickwork installation:

- ⇒ To fasten the reader module on the wall, drill four holes into the wall and insert 6 mm plugs into each.
- ⇒ Screw the reader module down using four 4 x 50 mm wood screws. Make sure the 10 mm drill hole in the wall and the fixing holes provided for this purpose in both spacer plate and reader module do correspond and the screw heads do not project above the countersinking.

4. For installation on metal:

- ⇒ Provide four drill holes for M4 threads.
- ⇒ Cut the threads.
- ⇒ Fasten the reader module using four countersunk head screws. Make sure the 10 mm drill hole in the wall and the fixing holes provided for this purpose in both spacer plate and reader module do correspond and the screw heads do not project above the countersinking.

5. For installation on wood: screw the reader module down using four 4 x 50 mm wood screws. Make sure the 10 mm drill hole in the wall

and the fixing holes provided for this purpose in both spacer plate and reader module do correspond and the screw heads do not project above the countersinking.

6. Lead the free cable end through the hole in the brickwork to the control electronics module.

If the connector does not go through the hole, proceed as follows:

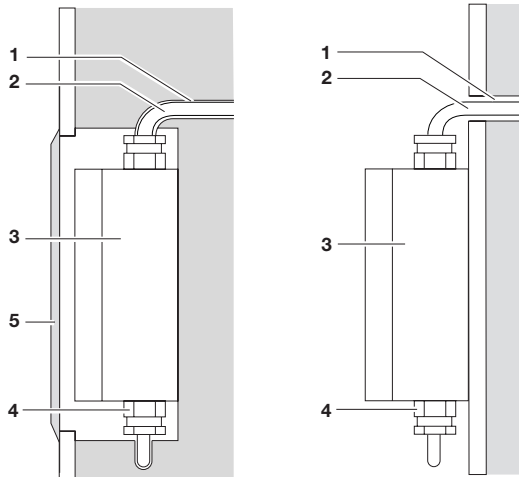
- ⇒ Cut the plug off.
- ⇒ Unscrew the G-9 connection and remove it from the cable.
- ⇒ Lead the free cable end through the hole to the control electronics module.
- ⇒ Shorten the cable accordingly.
- ⇒ Fit the screwed G-9-connection to the cable again.
- ⇒ Introduce the flat-section cable through the opening in the spare connector in such a manner that the arrow imprinted on the plug is on the same side as the red marking on the flat-section cable (polarity!).
- ⇒ Close the spare connector by pressure using water pump or special crimp pliers.

7. Stick the front foil onto the reader module. Make sure the openings in the front foil correspond to those provided in the reader module.

Installation of the control electronics module

Pre-conditions:

- All cables including power supply for all devices to be connected must have been laid
- For flush fitted installation: a sufficiently sized drill hole must have been provided



Flush fitted installation (left hand) and surface installation (right hand) of the control electronics module

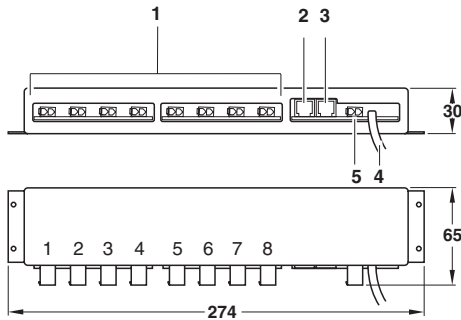
- 1 *Protecting tube (min. 12 mm inside diameter)*
- 2 *Cable (diameter = 8 to 9 mm, length = 2.5 m)*
- 3 *Control electronics module*
- 4 *Power supply connection*
- 5 *Inspection flap*

⇒ To fasten the control electronics module on the wall, drill four holes into the wall and insert 6 mm plugs into each or screw it down on the wall directly using Hospa screws.

Installation of the Output Extender

! **Access to the output extender must be possible even after installation.**

⇒ When choosing the appropriate installation location, make sure all connections can still be accessed after completion.



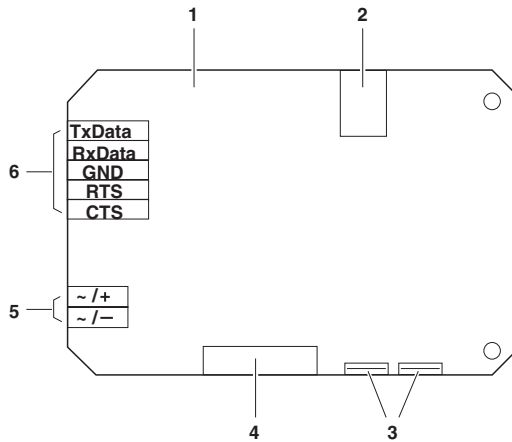
- 1 *Outputs 1 - 8, connections for CL lock cases*
- 2 *Female Western plug for data line connection to the next output extender*
- 3 *Data line to the control electronics module, to the preceding output extender resp.*
- 4 *Power feed cable for connection with transformer*
- 5 *Power supply for the next output extender*

1. Screw the output extender down using four screws ($\varnothing = 2.5$ mm).
2. Plug the connector of the CL lock case into output 1 - 8 of the output extender. If necessary, use an extension cable.
3. Plug the Western plug of the data line (cascade cable) that leads to the control electronics module into the corresponding female plug.

If more output extenders are connected:

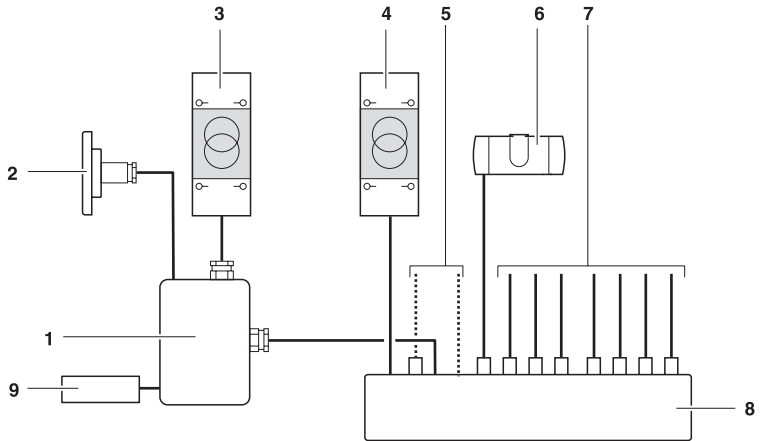
- ⇒ Plug the Western plug of the data line that leads to the next output extender into the corresponding second female plug.
4. Connect the power supply cable to the transformer.

Electrical installation



Allocation plan of the control electronics module

- 1 On-board control electronics module
- 2 Female Western plug, connection for cascading cable
- 3 Connection for CL display
- 4 Connection for flat-section cable leading to the reader module (pin contact strip)
- 5 Supply voltage
- 6 Serial RS-232-interface to the PC or to the online adapter



Switching example, Basic Solution

- 1 Control electronics module
- 2 Reader module
- 3 Transformer for CL terminal
- 4 Transformer for output extender and CL lock cases
- 5 Connection to the next output extender (data line and power supply)
[not recommended within the Basic Solution]]
- 6 CL lock cases
- 7 Additional CL lock cases (up to 8 per output extender)
- 8 Output extender with open collector outputs
- 9 External CL display (optional)

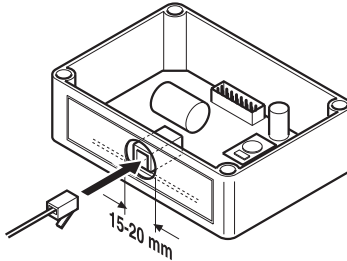


Mortal danger due to high current stroke!

⇒ Make sure the electrical installation is carried out by experts only.

- 1. Deactivate the fuses of all consumers including CL terminal power supply!
- 2. Make sure all lines are voltage-free.
- 3. Drill the necessary holes into the casing of the control electronics module for feed-through of the screwed PG-9 connections (for

reader module, power supply and perhaps for online adapter cable and CL display).

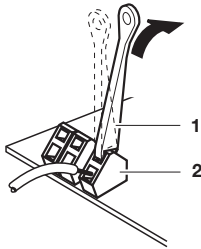


4. Drill a $\varnothing = 15 - 20$ mm hole into the casing of the control electronics module for feed-through of the data line (cascading cable). Mind the position of the female Western plug.
5. When connecting the CL display, take care of the position of the two display connectors:
⇒ Attach the display connector in such a manner that both idle connector contacts point to the inside.
6. Shorten the cable.
7. Slip the screwed G-9 connections onto the cables to be connected.
8. Screw the casing of the control electronics module on the wall using four 4 x 50 mm wood screws.
9. Lead the cables through the holes in the casing provided for this purpose.
10. Slip the nuts of the screwed PG-9 connections on the cables and tighten the screwed PG-9 connections.



The electronic board can be destroyed if inappropriate tools are used!

⇒ Connect the cables of the devices to be connected by means of the connecting tool supplied only.



- 1 Connecting tool
- 2 Contact terminal

11. Open the contact terminals using the connecting tool.
12. Put the cables into the contact holes.
13. Remove the connecting tool.
14. Put the reader head cable into the pin contact strip.
15. Put the data line (cascading cable) into the female Western plug.
16. Use the plastic screws supplied to fix the cover on the casing.
17. If the control electronics module is flush mounted: fit the inspection flap.

Setting into Operation

Allocate programming and deletion key sticks

Programming and deletion key sticks are allocated in stand alone mode during first commissioning.

This can be implemented only after supply voltage is fed to the CL terminal.

The locking mode of the CL terminal is pre-set, such that the connected CL terminals are unlocked for approx. 5 seconds when an authorized electronic key is placed in front of them. Other locking modes can be programmed, too (e. g. alternating unlocking/locking when placing an authorized key in front of them). The locking mode can be modified via special transponder only before programming and deletion keys are allocated. Please contact your Dialock sales office for this purpose.



Prevent misuse by unauthorized persons!

⇒ Keep programming and deletion keys safe, as they might be used to allocate or withdraw locking authorisations to or from an electronic key.

1. Keep the green programming and the red deletion key sticks at hand.
2. If voltage is fed to the CL terminal already, disconnect the voltage supply.
3. Connect it to the voltage supply again.
The green LED flashes for a few seconds.
4. Place the green programming key stick in front of the reading module while the green LED flashes.
The red LED starts flashing for a short time to confirm that the learning procedure has been successful.
5. Place the red deletion key stick in front of the reader module, while the red LED flashes.
The red LED is illuminated.

If errors have occurred during the allocation procedure, proceed as follows:

⇒ Disconnect the voltage supply feed and connect it again.

⇒ Allocate programming and deletion key sticks once again.

If errors occur again:

⇒ Contact your Dialock sales office.

Brief operating instructions

Allocate locking authorizations to the first locking unit

1. Place the green programming key stick in front of the reader module.
The green LED flashes, the first locking unit is cleared.
2. Place the electronic key to be learned in front of the reader module.
The green LED lights up for a short period.
The locking authority for the electronic key to be learned is allocated.
3. Remove the learned electronic key.
The green LED flashes.
The attempt has failed if the red LED lights up:
⇒ Repeat the allocation of locking authorizations.
4. Learn further electronic keys as long as the green LED flashes.

Activation of further locking units

Generally, locking authorizations can be allocated to max. 128 locking units. Within the scope of the Basic Solution, however, we recommend to connect no more than 8 locking units, as this type of allocation of locking authorizations is usually not sensible for a number of locking units.

1. To clear the second locking unit, place - as long as the green LED flashes - the programming key stick in front of the reader module again.
The green LED flashes twice, i.e. twice short, is off slightly longer, flashes twice short again and so forth.
The second locking unit is cleared.
2. Learning of electronic keys for the second locking unit.

3. To clear the third locking unit, place - as long as the green LED flashes - the green programming key stick in front of the reader module again.
The green LED flashes three times, i.e. three times in short intervals, is off slightly longer, flashes three times short and so forth.
The third locking unit is cleared.
All further locking units will be activated by placing the programming key stick in front of it again.
The number of the flashes determines which locking unit is activated.

Withdrawal of locking authorizations from an electronic key



The locking authorizations allocated to an electronic key cannot be withdrawn at an individual locking unit.

⇒ After withdrawal of the locking authorizations allocated to the key these must be allocated again for all locking units the key shall be further authorized to.

1. Place the red deletion key stick in front of the reader module.
The red LED flashes.
2. Place the electronic key to be deleted in front of the reader module.
The red LED lights up for a short period.
The allocated locking authorizations are withdrawn.

Withdrawal of the locking authorizations allocated to all keys

All electronic keys must be deleted via reader module if an electronic key was lost and if its locking authorization shall be withdrawn. Locking authorizations must then again be allocated to the authorized keys.

1. Place the red deletion key stick in front of the reader module.
The red LED flashes.
2. Place the green programming stick in front of the reader module.
The red LED lights up for a short period.
3. Reallocate locking rights to all electronic keys that shall be authorized further.

Operation of the CL terminal

- ⇒ Place the authorized electronic key at a distance of only a few centimetres in front of the reader module.
The green LED is illuminated, the red LED extinguishes.
All locking units to which the electronic key is authorized will be unlocked for approx. 5 seconds.

If the LEDs do not switch over from red to green:

- ⇒ Place the electronic key slightly closer to the CL terminal.

If the LEDs again do not switch over from red to green:

This electronic key has no locking authorization.

- ⇒ Place the authorized electronic key in front of the reader module.

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