

# GAT NET.Lock 7000

## Electronic Locker Locks

### Application

The GAT NET.Lock 7000 is the ideal solution for the convenient electronic locking of wardrobe lockers in fitness clubs, baths, golf resorts, and other individual company applications such as safes. The identification at the GAT NET.Lock 7000 is carried out via contactless RFID data carriers (Radio Frequency Identification).

The GAT NET.Lock 7000 is suitable for any kind of locker material (wood, HPL, fully synthetic materials, glass or even metal doors when using the booster unit) and is useable for doors that open to the left or right. The various operating modes enable the rather flexible use of these locks.

Slave controllers GAT NET.Controller S 7000 are used for communication and control of the GAT NET.Lock 7000. The slave controllers are available for several RFID technologies (LEGIC®, MIFARE™, ISO 15693).

### Functional description

The electronic locks GAT NET.Lock 7000 are connected to slave controllers GAT NET.Controller S 7000. Up to 24 locks can be connected at one slave controller. Each slave controller in a system is further connected via serial RS 485 interface to a master controller GAT NET.Controller M 7000.

To use a locker, the user presses the locker door shut and holds his data carrier up to the reader centre of the GAT NET.Lock 7000. The lock reads the data carrier information and sends the information to the slave controller. Depending on the operation type (Online/Offline) the user data are checked by the controller autonomously or by a PC software on the server. The controller or server response will then signal the lock to lock or unlock the locker door. The locking status of the door is signalled by an LED.

### Highlights

- Up to 24 GAT NET.Lock 7000 per GAT NET.Controller S 7000
- Different operation modes possible
- Reliable data transmission between the reader and data carrier
- For left and right doors and various types of locker doors
- Self-adjustment of the RFID field
- LED status display (multi-colour)
- Motor driven locking/unlocking, for highest reliability
- Different bolt sets with integrated RFID booster
- Easy and secure bolt mounting
- Front plate for metallic doors (for labelling with locker number and logo etc.), individual designs possible

### Accessories

Description	PartNo.
<b>GAT NET.Lock Basic Set B</b>	369131
Includes master cards, software-CD	
<b>GAT NET.Lock Basic Set F</b>	369232
Includes master cards, software-CD	
<b>GAT NET.Lock Basic Set ISO</b>	369333
Includes master cards, software-CD	



**GAT NET.Lock 7000**

### Order information

Description	PartNo.
<b>GAT NET.Lock 7000</b>	368534
Electronic locker lock	

### Accessories

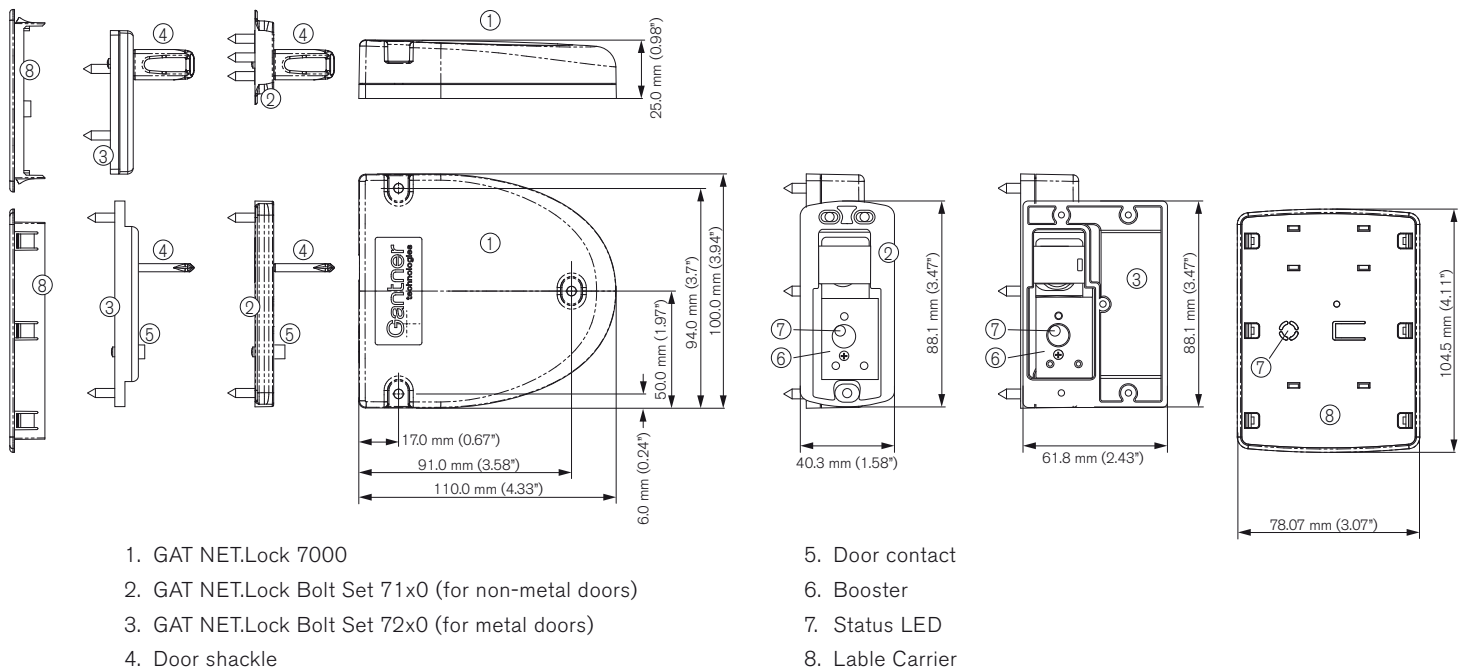
Description	PartNo.
<b>GAT NET.Controller M 7000</b>	253224
Master controller for the slave controllers GAT NET. Controller S 7000	
<b>GAT NET.Controller S 7000 B</b>	253325
Slave control unit for the electronic locker locks GAT NET. Lock 7000, with integrated LEGIC® reader.	
<b>GAT NET.Controller S 7000 F/ISO</b>	253426
Slave control unit for the electronic locker locks GAT NET. Lock 7000, with integrated MIFARE™/ISO 15693 reader.	
<b>GAT NET.Lock Bolt Set 71x0</b>	369535
Door shackle carrier and booster for non-metallic doors	
<b>GAT NET.Lock Bolt Set 72x0</b>	369636
Door shackle carrier and booster for metallic doors	
<b>GAT NET.Lock Connector</b>	442123
Connector for connection cables	
<b>GAT NET.Lock Label GEA</b>	370022
Self-adhesive door label for GAT NET.Lock 7000, GANTNER design	
<b>GAT NET.Lock Cable 4m</b>	321826
Cable for connection of GAT NET.Lock 7000, length 4 m, 4-pin plug on both sides	

## Technical Data

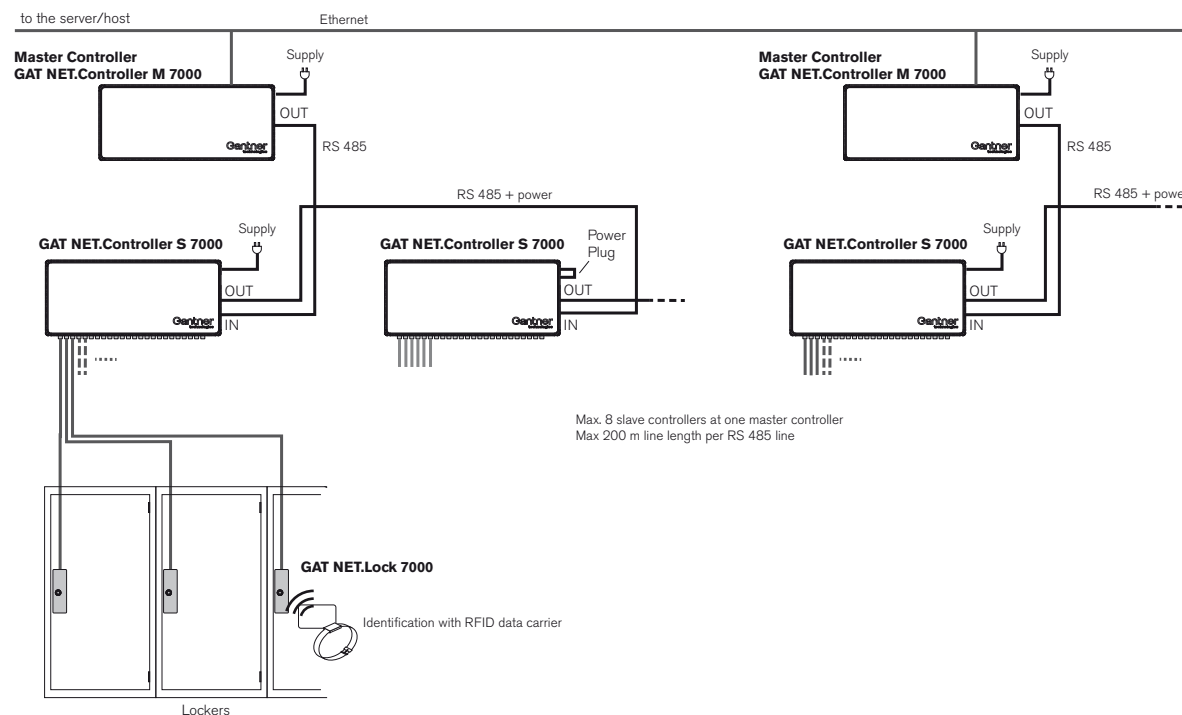
Nominal voltage Ubc:	5 V
Power supply:	Via connection cable from the slave controller
Aver. power consumption:	60 mW
Reader types:	
GAT NET.Controller S 7000	
- B:	LEGIC®
- F/ISO:	MIFARE™ + ISO 15693
Retaining force	
- GAT NET.Lock Bolt Set 7x10:	Min. 800 N
- GAT NET.Lock Bolt Set 7x20:	Min. 1.500 N
Force on inner side of the door:	Max. 50 N
User guidance	Multi-Colour status LED

Interface:	One-Wire (special cable for supply, data and HF signal)
Number locks per slave cont.:	24
ConnectORS:	MOLEX, type Micro-Fit 3.0™
Housing material:	Plastic (PC)
Door width:	min. 230 mm
Dimensions:	110 x 100 x 25 mm
Permitted ambient temperature:	0 to +60°C
Protection type:	IP 52
Protection class:	III
Weight:	Approx 160 g
Environment class based on VDS 2110:	II (conditions in indoor areas)

## Dimensions



## Typical application



## Mounting and Installation Instructions

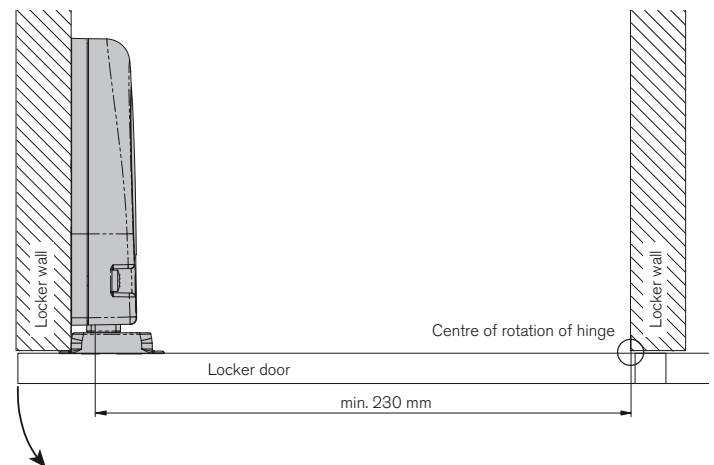
The GAT NET.Lock 7000 is mounted with 3 screws (1) on the inside of the locker. The bolt set with the door shackle is mounted on the inside of the locker door. At non-metallic doors only a drilling for the LED is required. At metallic doors a cut-out must be made in the door, where the bolt set and cable carrier will be mounted.

### Door status contact

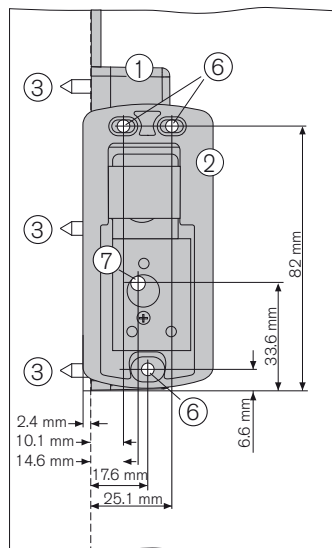
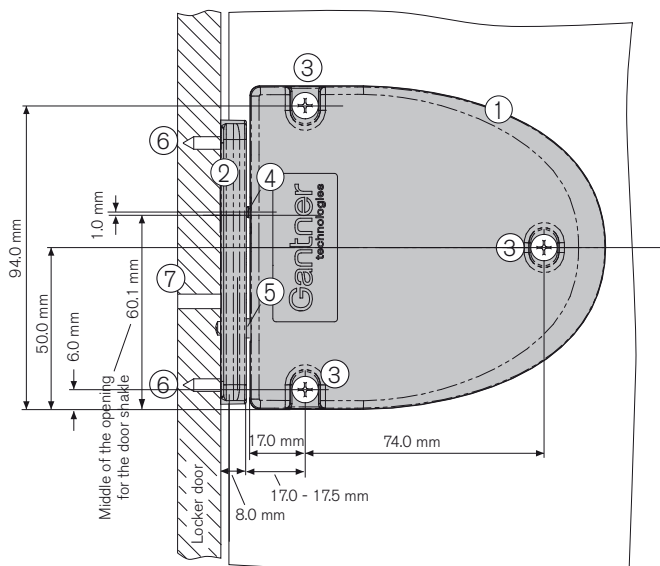
The GAT NET.Lock 7000 has a contact which gets activated by the door contact (5) at the bolt set as soon as the locker door is closed. To guarantee the correct functionality of the GAT NET.Lock 7000 it is important, that this contact is clean and not damaged.

### Door width

The minimum allowed door width (measured from the door shackle to the hinge) is 230 mm. If the door is narrower, the door shackle would hit the locker when the door is being closed.



### Mounting on Non-Metallic Doors



1. GAT NET.Lock 7000
2. GAT NET.Lock Bolt Set 71x0
3. Mounting screws for GAT NET.Lock 7000
4. Door shackle
5. Door contact
6. Mounting screws for bolt set
7. LED (hole in locker door)

### Installation measures for GAT NET.Lock 7000 and Bolt Set

During the mounting, please pay particular attention to the following points:

- When the door is pressed shut, the gap between the bolt set (2) and the front of the GAT NET.Lock 7000 must not be exceed 0.5 mm. Ideally the bolt set should touch the front of the lock.
- The middle of the door shackle (6) must be 1 mm higher than the middle of the door shackle opening in the GAT NET.Lock 7000. This ensures the door's ability to close even if the door position is modified 3.5 mm downwards or 1.5 mm upwards (tolerance  $\pm 2.5$  mm).

### Mounting procedure

**Note:** Before mounting all locks of the locker system a test installation of one lock and final function check must be performed like described below. Only if the tests are successful the rest of the locks may be mounted in the same way.

1. Drill the 3 holes (3) for the GAT NET.Lock 7000 into the locker wall.
2. Plug-in the connection cable (see page 6).

3. Mount the GAT NET.Lock 7000 with 3 screws (3) on the inside locker wall.

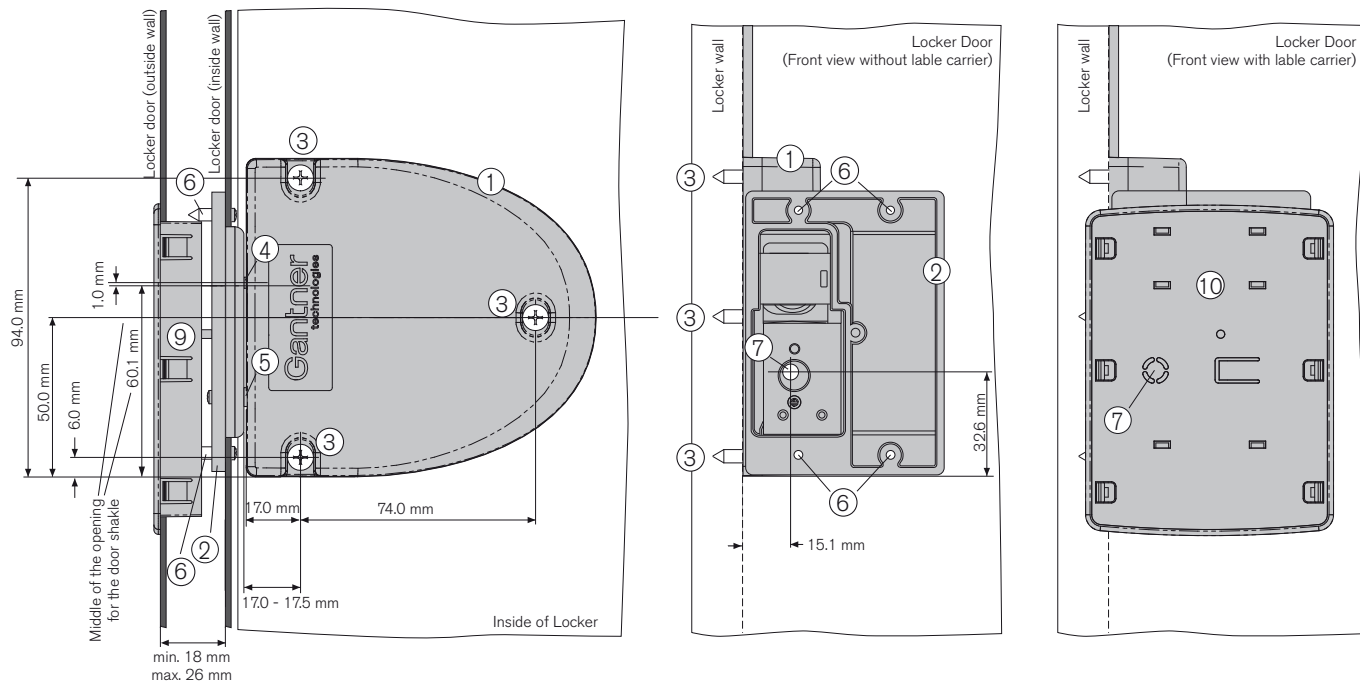
**Note:** Use the right screws according to the type of locker material.

4. Drill the 3 holes (6) for mounting the GAT NET.Lock Bolt Set 71x0.
5. Drill a hole for the LED display in the locker door (7). The recommended hole diameter is 10 mm.

**Note:** A customer-specific front lable can be used to cover the LED hole. A transparent field should be placed on the lable to show the LED light.

6. Mount the bolt set onto the locker door by using 3 screws.  
**Note:** Use the right type and length of the screws according to the type of locker material.
7. Close the door to test, if the locker door can be closed easily and the door shackle inserts into the opening in the GAT NET.Lock 7000.

## Mounting on Metallic Doors



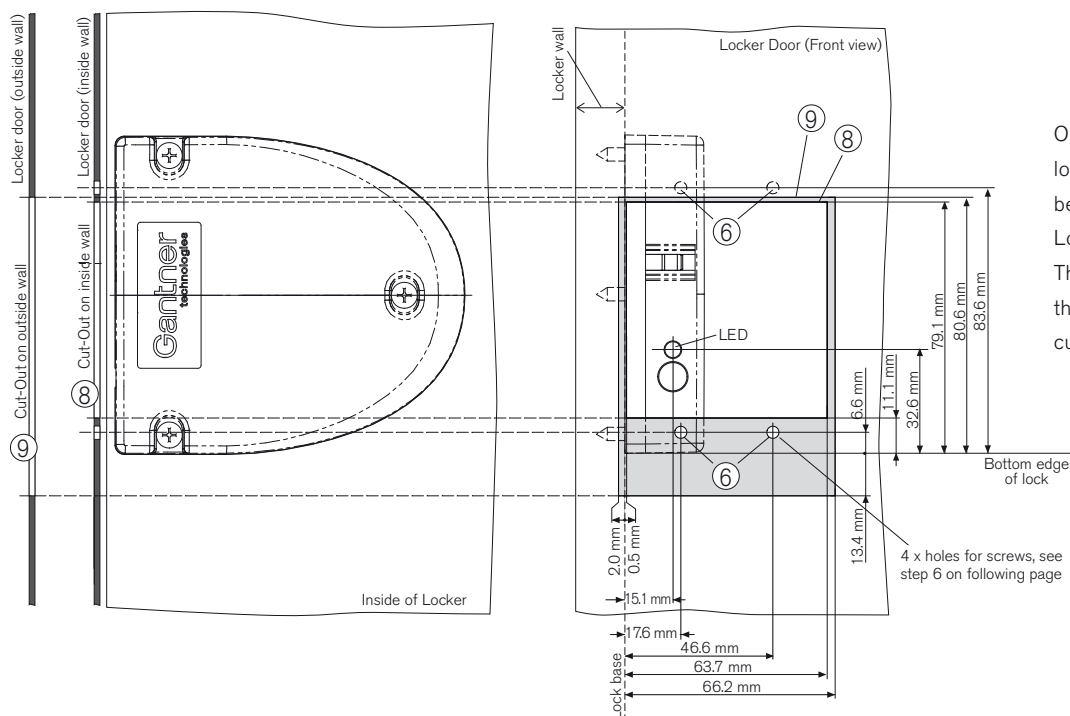
### Installation measures for GAT NET.Lock 7000 and Bolt Set

During the mounting, please pay particular attention to the following points:

- The door thickness must be between 18 and 26 mm (see figure).
- When the door is pressed shut, the gap between the bolt set (2) and the front of the GAT NET.Lock 7000 must not be exceed 0.5 mm. Ideally the bolt set should touch the front of the lock.
- The middle of the door shackle (4) must be 1 mm higher than the middle of the door shackle opening in the GAT NET.Lock 7000. This ensures the door's ability to close even if the door position is modified 3.5 mm downwards or 1.5 mm upwards (tolerance  $\pm 2.5$  mm).

1. GAT NET.Lock 7000
2. GAT NET.Lock Bolt Set 72x0
3. Mounting screws for GAT NET.Lock 7000
4. Door shackle
5. Door contact
6. Mounting screws for bolt set
7. LED position
8. Cut-out for GAT NET.Lock Bolt Set 72x0
9. Cut-out for lable carrier
10. Lable carrier
11. Front lable

### Cut-outs in the Locker Door



On the inside and outside walls of the locker door the following cut-outs must be made in order to mount the GAT NET. Lock bolt Set 72x0 and the lable carrier. The mounting procedure is described on the next page. The measurements for the cut-outs are shown in the next figure.

## Mounting procedure

**Note:** Before mounting all locks of the locker system a test installation of one lock and final function check must be performed like described below. Only if the tests are successful the rest of the locks may be mounted in the same way.

1. Drill the 3 holes (3) for the GAT NET.Lock 7000 into the locker wall.
2. Plug-in the connection cable (see page 6).
3. Mount the GAT NET.Lock 7000 with 3 screws (3) on the inside locker wall.

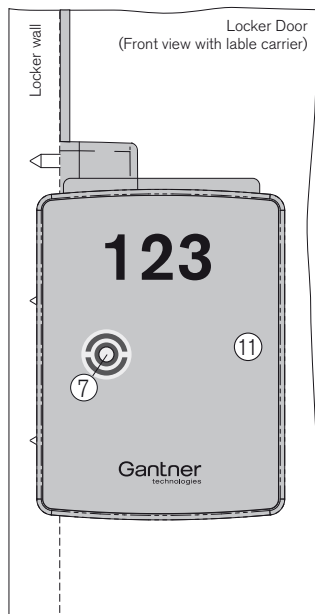
**Note:** Use the right screws according to the type of locker material.

4. On the inner wall of the locker door make the cut-out (63.2 x 68 mm) for the GAT NET.Lock Bolt Set 72x0.
5. On the inner wall of the locker door drill the 4 holes (6) for mounting the GAT NET.Lock Bolt Set 72x0.
6. On the outer wall of the locker door make the cut-out (68.2 x 94 mm) for the lable carrier.
7. Mount the bolt set onto the inside wall of the locker door by using 4 screws as shown in the figure on the previous page.

**Note:** Use the pan-head metal screws included in the scope of supply (Torx, Ø 3.5 mm, length 9.5 mm)

8. Push the lable carrier onto the outside wall of the locker door. The lable carrier will hold in place with the lashes on the lable carrier. No screws are required.
9. Stick the front lable onto the lable carrier.

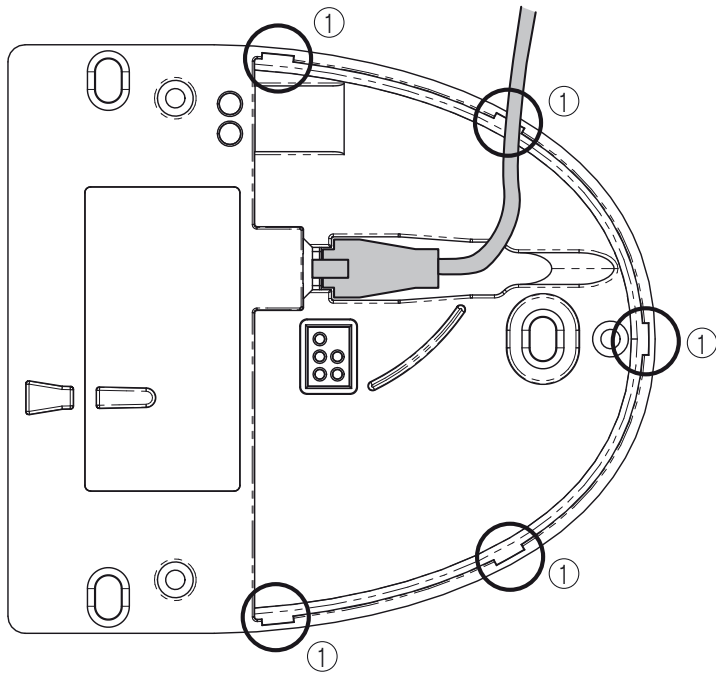
**Note:** A customer-specific front lable can be used to cover the LED hole. A transparent field should be placed on the lable to show the LED light.



10. Close the door to test, if the locker door can be closed easily and the door shackle inserts into the opening in the GAT NET.Lock 7000.

## Electrical Connection

GAT NET.Lock 7000 Back Side



### Connection Cable

To connect the GAT NET.Lock 7000 to a GAT NET.Controller S 7000 use the GAT NET.Lock Cable with 4-pin MOLEX plug on both ends. It is possible to connect 2 of these cables by using a GAT NET.Lock Connector (see order information).



To connect a GAT NET.Lock 7000 only an original cable from GANTNER Electronic GmbH may be used.

### Power Supply and Signal Lines

DC power supply (see technical data) for unlocking and for the RFID reading field.

### Antenna Adjustment

The GAT NET.Lock 7000 can automatically adjust the RFID antenna. A description can be found in the manual of the GAT NET.Lock 7000.

### Cable Outlets

Cut-out one of these outlets (1) in order to feed the cable out of the GAT NET.Lock 7000 housing.

### Configuration

The configuration of the GAT NET.Lock 7000 and the controllers, where the GAT NET.Lock 7000 is connected, is done via the GAT Relaxx PC software. The configuration is described in the GAT NET.Lock 7000 and the GAT Relaxx manuals.

#### Safety instructions



- This device must be installed by qualified personnel only.
- The applicable safety and accident prevention regulations must be observed.
- Safety devices must not be removed.
- Please observe the technical data of the device specified on the data sheet.



- The device must be disconnected from the power supply prior to installation, assembly or dismantling.