

# GAT Smart.Lock 7001

## Centrally Operated Locker Lock

### Application

The GAT Smart.Lock 7001 is the ideal solution for the convenient electronic locking of lockers in various areas of the industry, logistics, organisation, and training.

The GAT Smart.Lock 7001 is suitable for any type of material (wood, HPL, solid plastic, glass, and sheet metal) and can be used for left- and right-hinged doors alike. The narrow design also enables its installation in the side wall of a closet.



### Functional description

In order to lock a locker, the user closes the locker door. The locker is automatically locked by pushing the door shut.

For opening the locker there are several solutions, e.g. by user identification on a central terminal.

### Highlights

- Electronic opening of the locker door
- Automatic locking by manually pushing the door shut
- Installation in the intermediate wall of the lockers or inside the locker
- Easy installation
- 50,000 locking/opening cycles
- Retaining force minimum 2000 N
- Continuous metal construction (zinc diecasting)
- Locking components made of stainless steel MIM 316L
- Electronic feedback, indicating the locking status (break-open alarm)
- 4-pin plug for the electrical connection
- Mounting safety pin and emergency opening

### Order information

Description	PartNo.
<b>GAT Smart.Lock 7001</b>	369737
Self-locking electronic locker lock with integrated electronic door open status, without bolt set and without door label, plug connection	

### Accessories

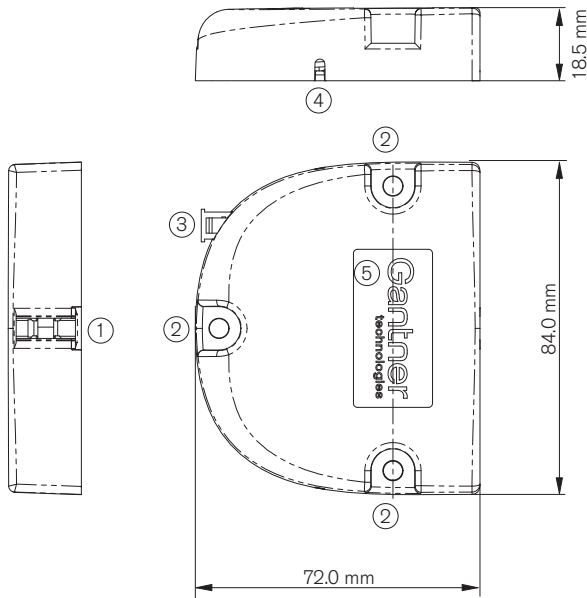
Description	PartNo.
<b>GAT Smart.Lock 7000 Bolt Set</b>	434023
Door and distance sheet and door shackle for GAT Smart.Lock 7001	
<b>GAT Smart.Controller S 7000</b>	253628
Control unit (slave controller) for the electronic locker locks GAT Smart.Lock 7001	
<b>GAT Smart.Lock Cable 2m OE</b>	229631
Connection cable 2 m, suitable for GAT Smart.Lock 7001, 4-pin plug and open end	
<b>GAT Smart.Lock Cable 4m OE</b>	457432
Connection cable 4 m, suitable for GAT Smart.Lock 7001, 4-pin plug and open end	
<b>GAT NET.Lock Cable 4m</b>	321826
Connection cable 4 m, suitable for GAT Smart.Lock 7001, 4-pin plug on both ends	
<b>GAT NET.Lock Connector</b>	442123
Connector for two connection cables GAT NET.Lock Cable 4m	

## Technical data

Nominal voltage $U_{DC}$ :	24 V
Permitted input voltage $U_{DC}$ :	19.2 to 28.8 V ( $\pm 20\%$ )
Current consumption of the coil:	1 A @ 24 V (500 ms)
Perm. switching current (contact):	1 mA
Std. switching current (contact):	Max. 0.1 A
Locking/opening cycles:	50,000
Retaining force:	Min. 2,000 N
Force on inner side of the door:	Max. 50 N
Housing material:	Zinc diecasting
Housing colour:	Grey

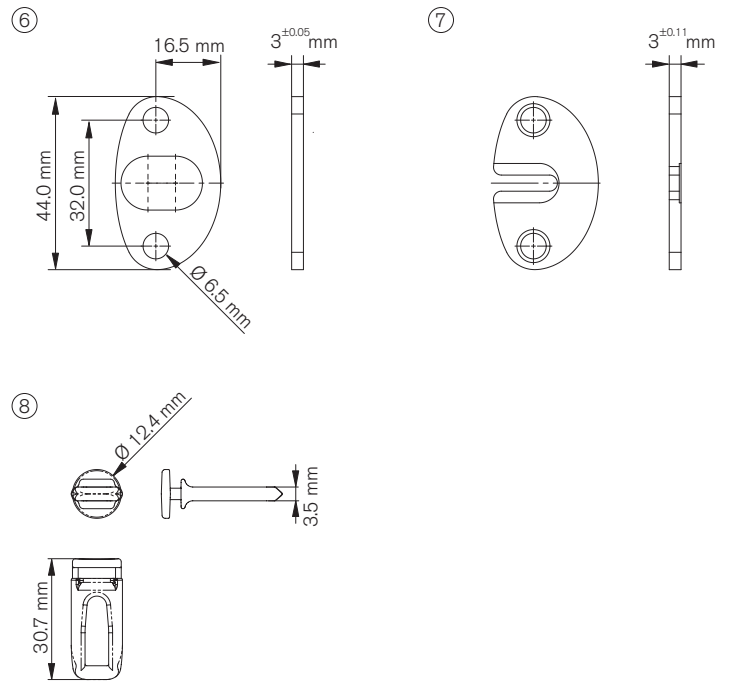
Door shackle:	MIM 316L
Door width:	Min. 230 mm
Installation position:	Arbitrary
Connection technique:	Socket (MOLEX, type Micro-Fit 3.0™, No. 043020-0401)
Dimensions:	84 x 72 x 18.5 mm (L x W x H)
Permitted ambient temperature:	-30 to +60°C
Storage temperature:	-30 to +70°C
Protective type:	IP 52
Protective class:	III
Weight:	Approx. 0.2 kg
Environment class based on VDS 2110:	II (conditions in indoor areas)

## Dimensions GAT Smart.Lock 7001



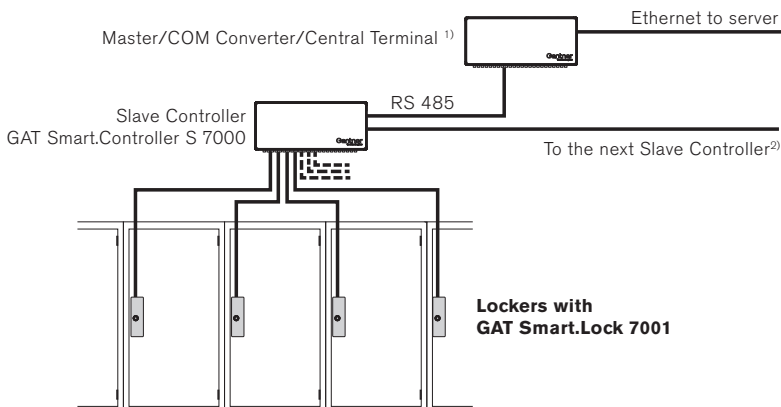
1. Opening for door shackle
2. Fastening holes (3 x)
3. Connection plug
4. Mounting safety pin and emergency opening
5. Recess for client-specific label

## Dimensions of door shackle and door sheets



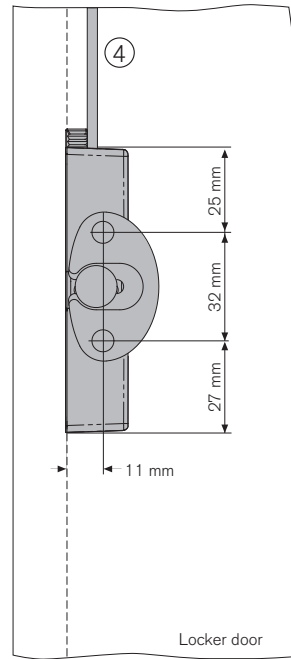
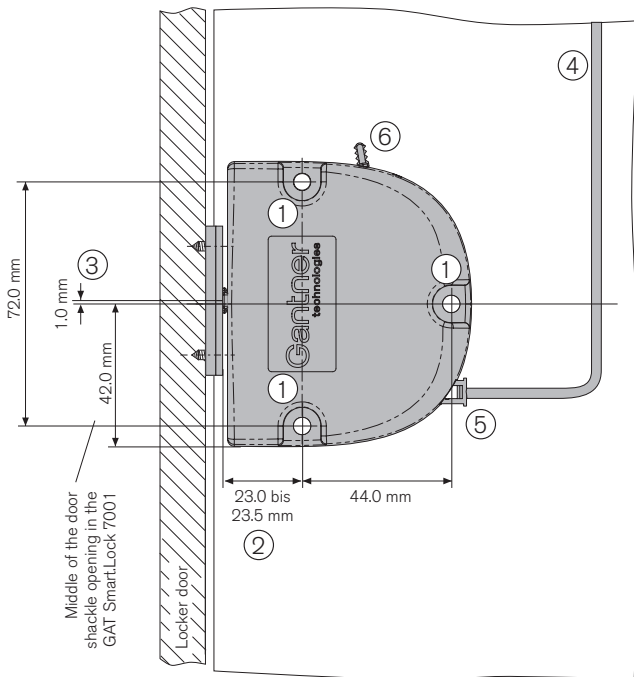
6. Door plate
7. Distance plate
8. Door shackle

## Typical application



## Mounting and installation instructions

The GAT Smart.Lock 7001 is fastened with 3 screws (1). Depending on the type of locker, the lock can be mounted on the side wall of the locker or in the intermediary wall of the locker. The door shackle is mounted with the door and distance plate on the inside of the locker door.



1. Fastening screws
2. Distance lock <-> distance plate
3. Offset door shackle <-> lock
4. Connection cable
5. Connection plug
6. Mounting safety pin

### Installation dimensions for GAT Smart.Lock 7001 and door shackle

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

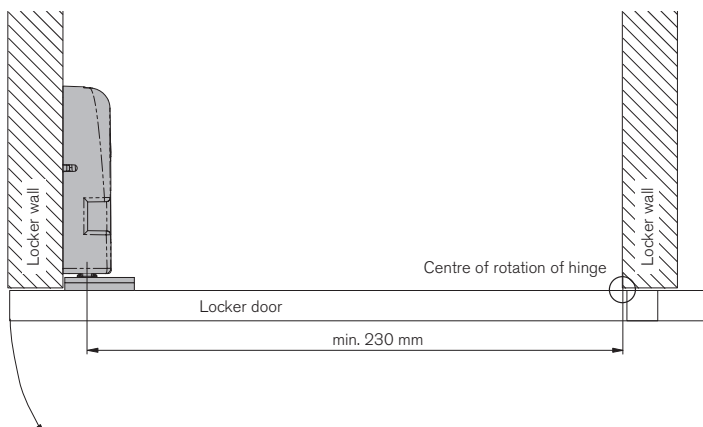
- The distance between the GAT Smart.Lock 7001 and the distance plate of the door shackle (2) must be between 1 and 1.5 mm when the door is closed.
- The middle of the door shackle (3) must be 1 mm higher than the middle of the door shackle opening in the GAT Smart.Lock 7001. This ensures the door's 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 safety pin

The GAT Smart.Lock 7001 is equipped with a mounting safety pin (6), which prevents the unwanted locking of the locker. It must only be removed after the mounting, electrical connection, and functional testing of the GAT Smart.Lock 7001 have been completed. Therefore the mounting safety pin is removed by pulling it straight out of the housing.

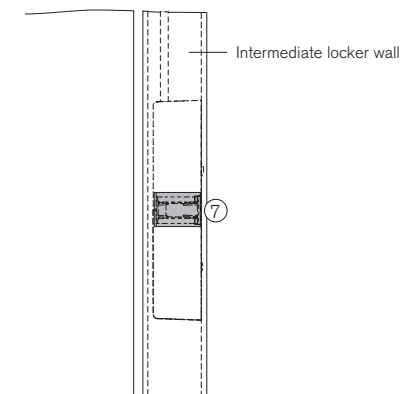
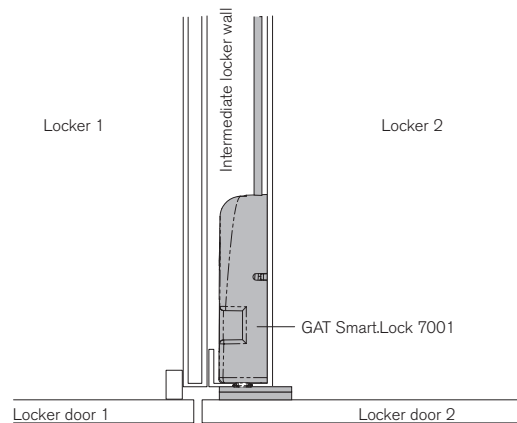
### Door width

The minimum 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.

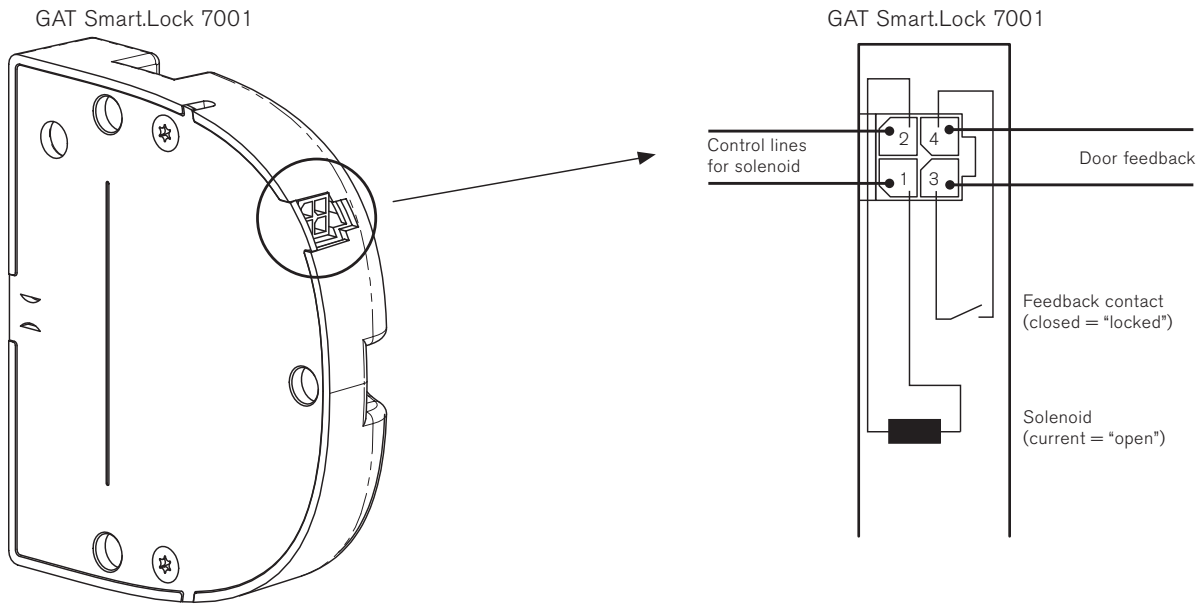


### Installation of GAT Smart.Lock 7001 in the intermediate locker wall

If it is permitted by the type of locker, the GAT Smart.Lock 7001 can be installed in the intermediate locker wall, as shown in the following figure. This enables a hidden installation, showing only the opening for the door shackle (7).



## Electrical connections



### Connection cable

For the connection of a GAT Smart.Lock 7001 to the slave controller GAT Smart.Controller S 7001 the cable GAT NET.Lock Cable is used. This cable has a 4-pin MOLEX plug on both sides.

Up to 2 of these cables can be connected together by using the GAT NET.Lock Connector (see order information).



For connecting the GAT Smart.Lock 7001 only an original cable from GANTNER Electronic GmbH may be used.

### Power supply/control

DC power supply (refer to technical data) for controlling the unlocking (solenoid). Unlocking occurs when power is supplied.

### Locking feedback

A potential-free contact in the GAT Smart.Lock 7001 indicates the locking status. If the contact is closed, the lock is locked (i.e. the door is closed).



The feedback contact must be submitted to a permanent minimum 1 mA (for 24 VDC, refer to the technical data).

### 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.