

GDL7m

Innovative radio-controlled mortise lock

FACTS AT A GLANCE

- Full design freedom in the choice of handles and fittings
- No wiring of the door required
- Maintenance-free, battery-free operation possible through inductive energy transfer
- Combination with a variety of RFID readers possible
- All common dimensions for easy retrofitting
- Full-leaf, tubular-frame, and glass door variants available
- 20 mm whisper-quiet latchbolt with automatic self-locking and tamper-proof actuation
- Mechanical emergency opening via cylinder possible at any time
- EN 1634, EN 179, EN 1125, EN 14846 certifications



The GDL7m is the first mortise lock that integrates seamlessly into a Gantner online access control system without any cabling and thus requiring no conversion work. In addition, the innovative high-tech lock offers similar functionality to a wired push-handle lock, such as the possibility of remote opening or independent locking when closing the door. And best of all, batteries are completely eliminated thanks to the optional inductive energy transfer, which is not only environmentally friendly, but also enormously cost-efficient since no maintenance is required.

The GDL7m is conveniently controlled by means of the Gantner access control reader, which reads the existing employee and visitor ID cards. Depending on the security requirement, the reader can be supplemented with a PIN-code keypad or a fingerprint reader. The signal transmission to the GDL7m takes place via radio frequency. The pairing between reader and GDL7m is simultaneously simple and secure. An installation-specific ID card and a mechanical key are required for the establishment of the AES encrypted communication. After that, the communication between reader and lock is secure and reliable.

Absolute design freedom plays a key role in this innovative, unique lock solution. Depending on customer requests and requirements, any handle or fitting design can be used. This is not only of paramount importance to customers with special design needs, but also in terms of historical conservation regulations, architectural specifications, or the need for individual coatings (e.g., ABACO antibacterial).

The GDL7m in its different versions is suitable for use in full-leaf, tubular-frame, and glass doors. The automatic self-locking and the tamper-proof triggering of the latchbolt also make the GDL7m the first choice in terms of security. The latchbolt made of stainless steel has an exclusion of 20 mm and is thus not only very quiet, but also meets the insurance requirements for a locked door. The panic function of the lock complies with the requirements of EN 179 and EN 1125 for emergency exits. A standard mechanical emergency opening is possible at any time via a commercially available cylinder (e.g., for the fire dept. emergency key), which of course is documented.

Device features

Latchbolt

- Whisper-quiet closing
- Wear-resistant
- Extra security due to 20 mm exclusion
- Automatic self-locking

Control latch

- Tamper-proof actuation of the latchbolt

Battery compartment

- Secured against unauthorised opening
- Programming button for control system

Face plate

- All common dimensions available

Transmitter/receiver unit

- Integrated in the lock housing
- No cabling necessary

Follower

- Panic function
- External handle electrically engageable
- 9 mm square spindle

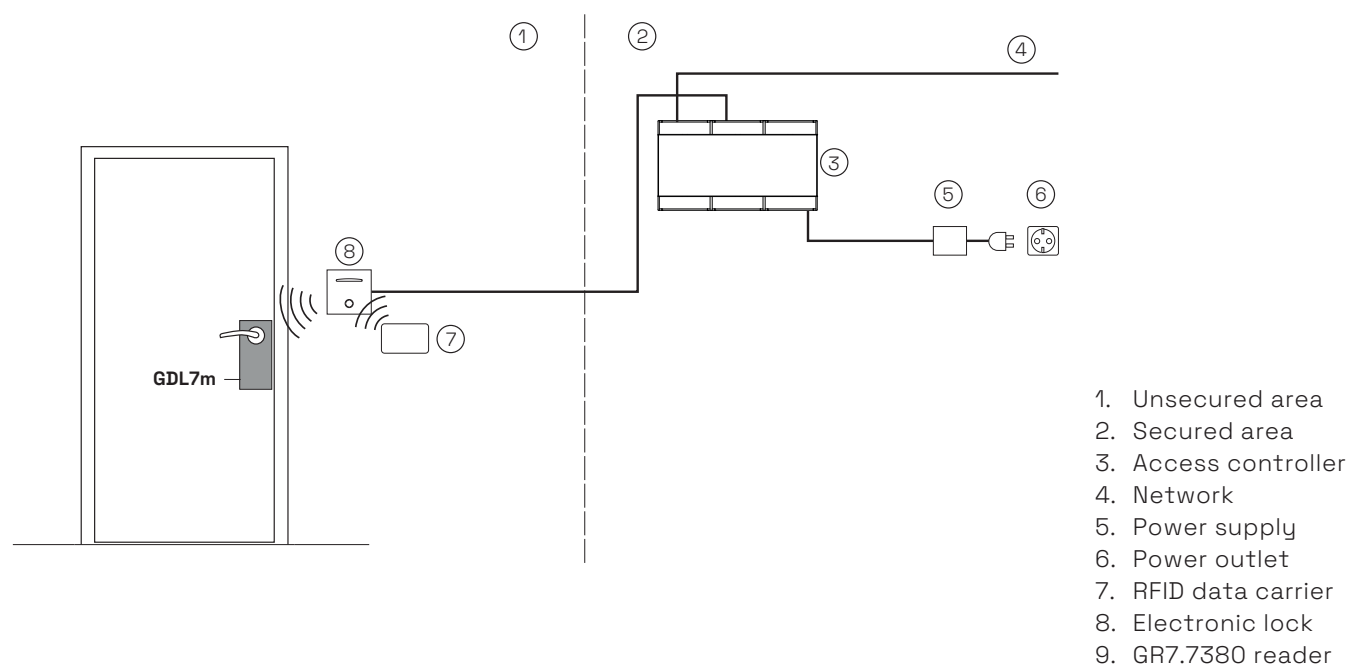
Distance

Cylinder

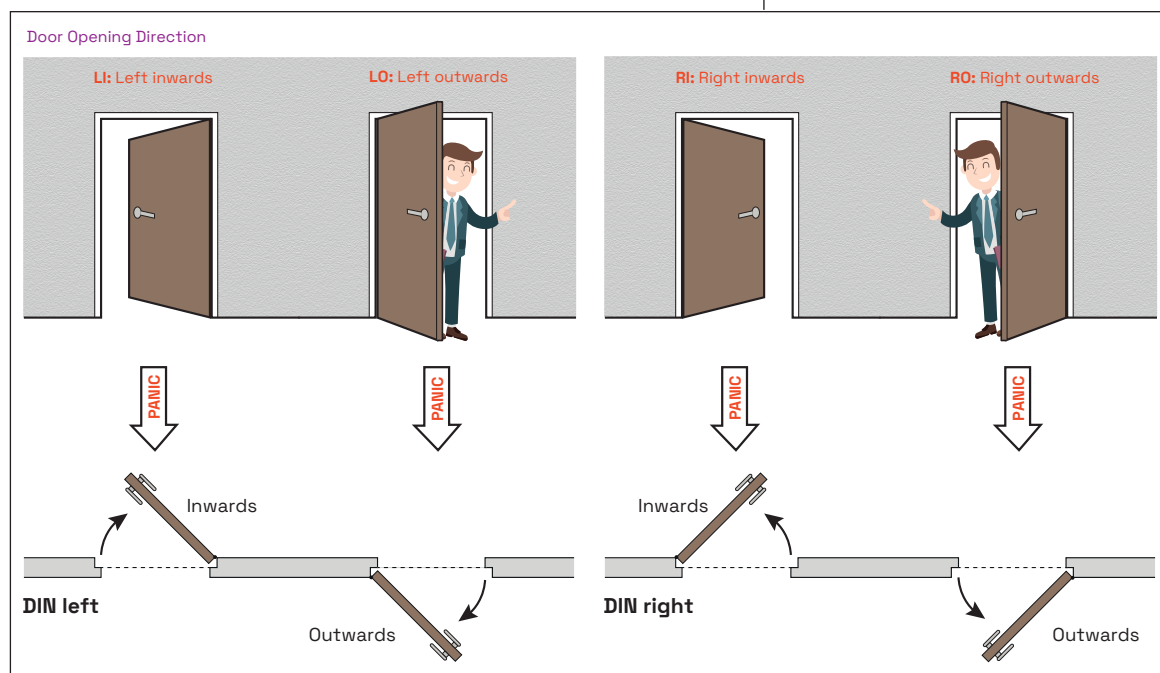
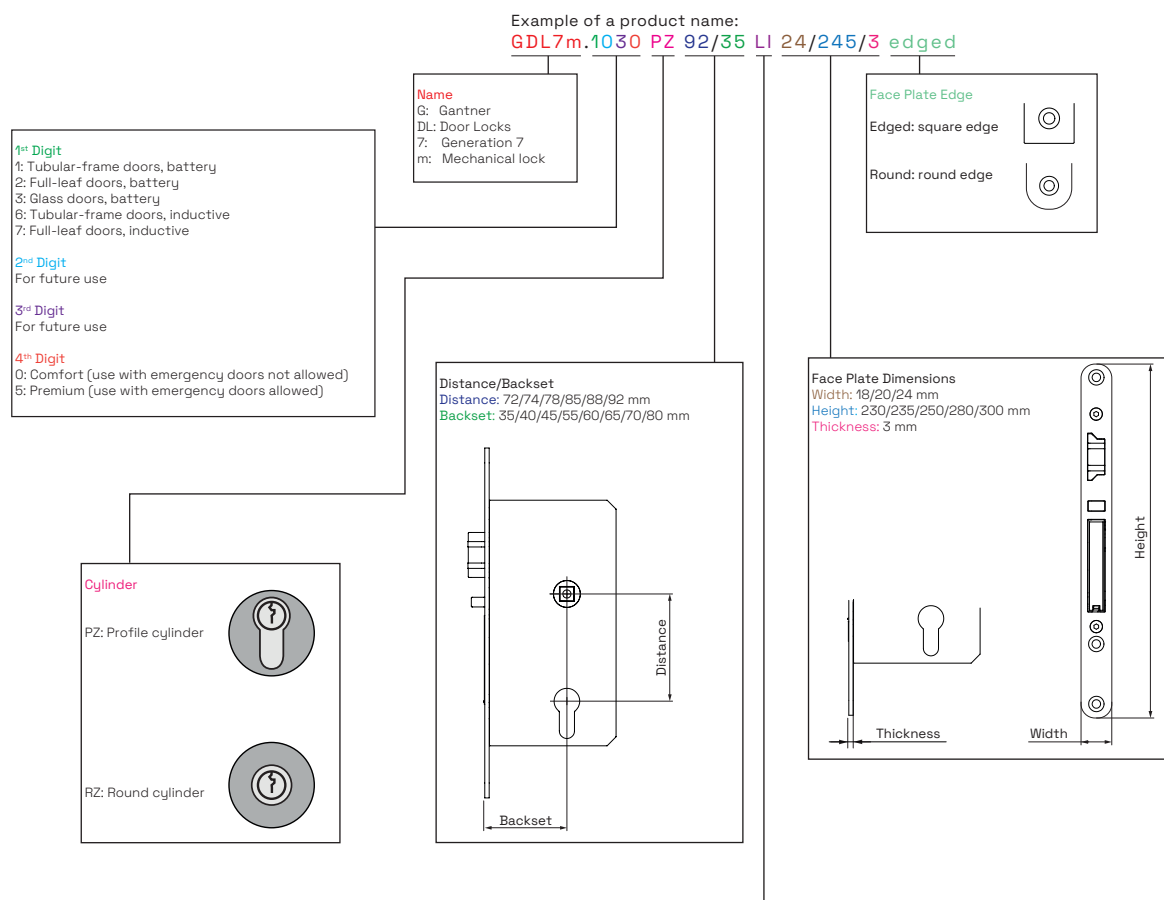
- Additional conventional key function for emergency opening
- Commercially available cylinder can be used

Backset

Typical application



Product definition

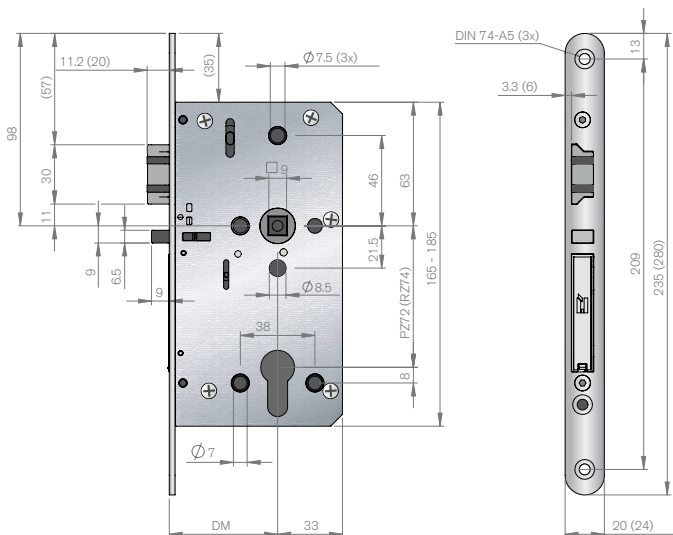


Full leaf

Features

- Comfort or Premium variants
- Premium version incl. certificates: EN 179 / EN 1125
- External handle electrically engageable
- Panic function
- Self-locking, whisper-quiet 20 mm latch (stainless steel)
- Transmitter and electronics protected in the lock housing
- Tamper-proof programming button integrated in the battery compartment, which can only be opened with cylinder key
- Radio frequency: 2.4 GHz / AES 128 encryption
- Standard long-life batteries

Dimensions



NOTE! Diagrams are examples of product variants.

Product variants

DIN profile cylinder

Distance	Backset	Face plate (polished stainless steel) ¹			
		20x235x3	24x235x3	20x280x3	24x280x3
72	55	✓	✓		
72	60	✓	✓		
72	65	✓	✓		
72	80	✓	✓		
85	60		✓		
92	65			✓	✓
92	80			✓	✓

Ö-NORM profile cylinder

Distance	Backset	Face plate (polished stainless steel) ¹			
		18x250x3	20x250x3	20x300x3	
88	55	✓	✓	✓	
88	60	✓	✓	✓	
88	65	✓	✓	✓	
88	70	✓	✓	✓	

Round cylinder

Distance	Backset	Face plate (polished stainless steel) ²			
		20x235x3	24x235x3	18x230x3	20x230x3
74	65	✓	✓		
78	60			✓	✓
78	70			✓	✓
78	80			✓	✓

¹⁾ Standard rounded

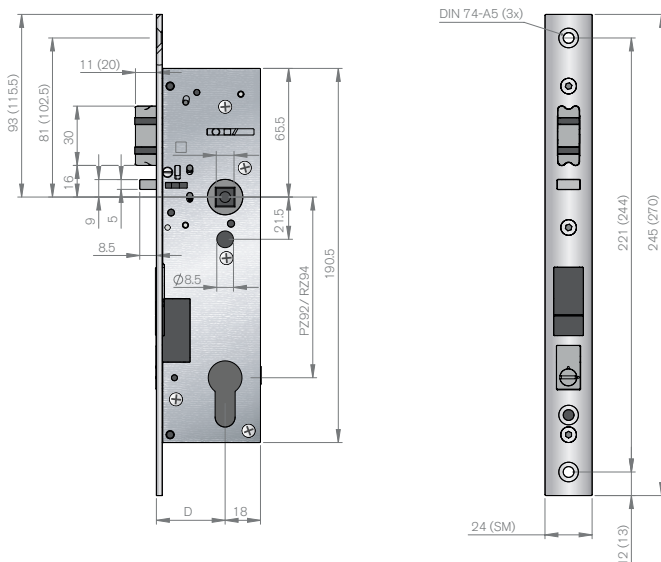
²⁾ Standard rounded; angular on request

Tubular frame

Features

- Comfort or Premium variants
- Premium version incl. certificates: EN 179 / EN 1125 (in preparation)
- External handle electrically engageable
- Panic function
- Self-locking, whisper-quiet 20 mm latch (stainless steel)
- Transmitter and electronics protected in the lock housing
- Tamper-proof programming button integrated in the battery compartment, which can only be opened with cylinder key
- Radio frequency: 2.4 GHz / AES 128 encryption
- Standard long-life batteries

Dimensions



NOTE! Diagrams are examples of product variants.

Glass door

Features

- Comfort variant only
- Battery-powered variant only
- Standard long-life batteries
- Distance: 72 mm
- Backset: 55 mm
- External handle electrically engageable
- Panic function
- Self-locking, whispering latch 20 mm (stainless steel)
- Transmitter and electronics protected in the lock housing
- Tamper-proof, programming button integrated in the battery compartment, this can only be opened with a cylinder key
- Radio frequency: 2.4 GHz / AES 128 encryption



Product Variants

DIN profile cylinder

Distance	Backset	Face plate (polished stainless steel) ³⁾
		24x245x3
92	35	✓
92	40	✓
92	45	✓

Round cylinder

Distance	Backset	Face plate (polished stainless steel) ³⁾
		24x245x3
94	35	✓
94	40	✓
94	45	✓

³⁾ Standard angular