Locking and Security
อุปกรณ์ล็อคและอุปกรณ์นิรภัย
Mortise locks

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Mortise locks: Door direction
ข้อแนะนำเกี่ยวกับระบบล็อกที่ติดต่อกลับ: ลักษณะของประตู

Depending of the pivot direction of a door, a door is classified as a left and right hand door. The door direction or side definition according to DIN 107 is determined as follows:

Visible position of the door hinges on the left = DIN left
Visible position of the door hinges on the right = DIN right

Furthermore, common definitions derive from the access direction.

In accordance with the door directions, the mortise locks are also classified as DIN left and DIN right hand locks:

DIN left hand lock
(the straight side of the latch points to the left)
ติดบนฝาเพาะซ้าย
(ฝ่าแฝดตรงของฝั่งสั้นอยู่ทางฝ่าขวา)

DIN right hand lock
(the straight side of the latch points to the right)
ติดบนฝาเพาะขวา
(ฝ่าแฝดตรงของฝั่งสั้นอยู่ทางฝ่าซ้าย)

Profile of a rebated door with mortise lock
(forend protruding on one side)

Profile of a flush door with mortise lock
(forend protrudes on both sides)

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ผลิตภัณฑ์และนวัตกรรมใหม่: www.hafele.com

1 Forend
2 Latch
3 Deadbolt
4 Screw channel for profile cylinder
5 Tumbler
6 Tumbler spring
7 Key action
8 Lever follower
9 Counter spring

a Backset
b Distance
c Case height
d Case width
e Forend length
f Forend width

g ระยะจากฝ่าก้นกลม
h ระยะของฝ่าในซ้าย
i ความสูงของฝั่งสั้นกลม
j ความกว้างของฝั่งสั้นกลม
k ระยะความยาวของฝ่าแฝดด้านบน
l ระยะความยาวของฝ่าแฝดด้านล่าง
EN 12209: 2003 - Mechanically operated locks, latches and locking plates

Scope
This standard covers the requirement and test methods for durability, strength, security and function of all types of mechanical locks and latches (including associated or separately locking plates), intended for use on pedestrian doors in buildings. Excluding electro-mechanically operated locks and striking plates, multipoint locks and their locking plates, locks for windows, padlocks, locks for safes, furniture locks and prison locks.

Classification
The standard classifies locks and latches using the 11 digit coding system. Each digit relates to a particular feature of the product measured against the standards performance requirements.

Scope
This standard covers the requirement and test methods for durability, strength, security and function of all types of mechanical locks and latches (including associated or separately locking plates), intended for use on pedestrian doors in buildings. Excluding electro-mechanically operated locks and striking plates, multipoint locks and their locking plates, locks for windows, padlocks, locks for safes, furniture locks and prison locks.

Classification
The standard classifies locks and latches using the 11 digit coding system. Each digit relates to a particular feature of the product measured against the standards performance requirements.

Digit 1 - Category of use
Classification is in three grades, grade 1 being the lowest

Grade 1: Low frequency. For use by people with a high incentive to exercise care and a small chance of misuse, e.g. internal residential doors

Grade 2: Medium frequency. For use by people with some incentive to exercise care but where there is some chance of misuse, e.g. internal office doors.

Grade 3: High frequency. For use by public or others with little incentive to exercise care and with a high chance of misuse, e.g. public doors

Digit 2 - Durability
Twelve grades of durability are identified:

Grade A: 50,000 cycles, no load on latch bolt
Grade B: 100,000 cycles, no load on latch bolt
Grade C: 200,000 cycles, no load on latch bolt
Grade D: 50,000 cycles, 10N load on latch bolt
Grade E: 100,000 cycles, 10N load on latch bolt
Grade F: 200,000 cycles, 10N load on latch bolt
Grade G: 100,000 cycles, 25N load on latch bolt
Grade H: 200,000 cycles, 25N load on latch bolt
Grade I: 100,000 cycles, 50N load on latch bolt
Grade J: 200,000 cycles, 50N load on latch bolt
Grade K: 100,000 cycles, 120N load on latch bolt
Grade L: 200,000 cycles, 120N load on latch bolt

EN 12209: 2003  มาตรฐานสำหรับอุปกรณ์ป้องกันความสูญหาย ล็อคประจำและแผ่นเพลิง
Digit 3 - Door mass and closing force
Nine grades of door mass and closing force are identified:
Grade 1: Up to 100 kg door mass; 50N maximum closing force
Grade 2: Up to 200 kg door mass; 50N maximum closing force
Grade 3: Up to 200 kg door mass or specified by the manufacturer; 50N maximum closing force
Grade 4: Up to 100 kg door mass; 25N maximum closing force
Grade 5: Up to 200 kg door mass; 25N maximum closing force
Grade 6: Up to 200 kg door mass or specified by the manufacturer; 25N maximum closing force
Grade 7: Up to 100 kg door mass; 15N maximum closing force
Grade 8: Up to 200 kg door mass; 15N maximum closing force
Grade 9: Up to 200 kg door mass or specified by the manufacturer; 15N maximum closing force

Digit 4 - Fire resistance
Two grades of suitability for use on fire/smoke doors are identified:
Grade 0: Not approved for use on fire/smoke door assemblies
Grade 1: Suitable for use on fire/smoke door assemblies tested to EN 1634-1 etc.

Note 1. A grade 1 classification means only that the lock has been designed for use on fire/smoke control doors; the actual fire performance achieved e.g. fire integrity of 30 minutes on a partially glazed timber door etc.) will be contained in a separate fire test report.

Note 2. Where a product is intended for fire/smoke use (i.e. “1” in box 4), it must be possible to demonstrate compliance with the Essential Requirements of the Construction Products (Amendments) Regulations. It is recommended that the product should bear the CE mark.

Digit 5 - Safety
Only one grade of safety is identified:
Note: A lock or latch conforming to this standard can, at the same time, also be part of an exit device conforming to EN 179 or EN 1125

Digit 6 - Corrosion resistance and temperature
Eight grades of corrosion resistance are identified:
Grade 0: No defined corrosion resistance; no temperature requirement
Grade A: Low corrosion resistance; no temperature requirement
Grade B: Moderate corrosion resistance; no temperature requirement
Grade C: High corrosion resistance; no temperature requirement
Grade D: Very high corrosion resistance; no temperature requirement
Grade E: Moderate corrosion resistance; temperature requirement: from -20°C to +80°C
Grade F: High corrosion resistance; temperature requirement: from -20°C to +80°C
Grade G: Very high corrosion resistance; temperature requirement: from -20°C to +80°C

Digit 3 - Door mass and closing force

Digit 4 - Fire resistance

Digit 5 - Safety

Digit 6 - Corrosion resistance and temperature

New products and systems: www.hafele.com
ลิสต์ผลิตภัณฑ์และdatasheet ได้รับการอนุมัติ จากหน่วยงานที่เกี่ยวข้อง.
Digit 7 - Security and drill resistance

Seven grades of security and drill resistance are identified:

Grade 1: Minimum security and no drill resistance
Grade 2: Low security and no drill resistance
Grade 3: Medium security and no drill resistance
Grade 4: High security and no drill resistance
Grade 5: High security with drill resistance
Grade 6: Very high security and no drill resistance
Grade 7: Very high security with drill resistance

Digit 8 - Field of door application.

Fifteen grades of door application are identified in the table below:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Type</th>
<th>Application 1</th>
<th>Application 2</th>
<th>Application 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Mortise</td>
<td>Unrestricted application</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>B</td>
<td>Mortise</td>
<td>Hinged door</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>C</td>
<td>Mortise</td>
<td>Sliding door</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>D</td>
<td>Rim</td>
<td>Unrestricted application</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>E</td>
<td>Rim</td>
<td>Hinged door</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>F</td>
<td>Rim</td>
<td>Sliding door</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>G</td>
<td>Bored lock</td>
<td>Unrestricted application</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>H</td>
<td>Mortise</td>
<td>Hinged door</td>
<td>Supported</td>
<td>-</td>
</tr>
<tr>
<td>J</td>
<td>Rim</td>
<td>Hinged door</td>
<td>Inwards</td>
<td>Locked from inside</td>
</tr>
<tr>
<td>K</td>
<td>Mortise</td>
<td>Hinged door</td>
<td>-</td>
<td>Locked from inside</td>
</tr>
<tr>
<td>L</td>
<td>Mortise</td>
<td>Sliding door</td>
<td>-</td>
<td>Locked from inside</td>
</tr>
<tr>
<td>M</td>
<td>Rim</td>
<td>Hinged door</td>
<td>-</td>
<td>Locked from inside</td>
</tr>
<tr>
<td>N</td>
<td>Rim</td>
<td>Sliding door</td>
<td>-</td>
<td>Locked from inside</td>
</tr>
<tr>
<td>P</td>
<td>Mortise</td>
<td>Hinged door</td>
<td>Supported</td>
<td>Locked from inside</td>
</tr>
<tr>
<td>R</td>
<td>Rim</td>
<td>Hinged door</td>
<td>Inwards</td>
<td>Locked from inside</td>
</tr>
</tbody>
</table>
Digit 9 - Type of key operation and locking

Nine grades of type of key operation and locking are identified:

Grade 0: not applicable
Grade A: cylinder lock or latch; manual locking
Grade B: cylinder lock or latch; automatic locking
Grade C: cylinder lock or latch; manual locking with intermediate locking
Grade D: lever lock or latch; manual locking
Grade E: lever lock or latch; automatic locking
Grade F: lever lock or latch; manual locking with intermediate locking
Grade G: lock or latch without key operation; manual locking
Grade H: lock without key operation; automatic locking

Digit 10 - Type of spindle operation

Five grades of spindle operation are identified:

Grade 0: Lock without follower
Grade 1: Lock with sprung lever or knob
Grade 2: Lock with light unsprung lever
Grade 3: Lock with heavy unsprung lever
Grade 4: Lock with manufacturer’s own specification furniture

Digit 11 - Key identification

Nine grades of key identification are identified:

Grade 0: No requirement
Grade A: Minimum three detaining elements
Grade B: Minimum five detaining elements
Grade D: Lever lock or latch; manual locking
Grade F: Lever lock or latch; manual locking with intermediate locking
Grade H: Lock or latch without key operation; manual locking

Note: This applies only to lever locks; cylinders are assessed to BS EN 1303: 1998

Classification code: 2:H:5:1:0:E:5:A:F:2:C:

Code shown using DHF graphic icons:

Example

This indicates a mechanically operated lock and locking plate intended for use in situations where there is an incentive to exercise care; that will withstand a durability of 200,000 cycles with 10N side load on the latch bolt and a door of up to 200 kg in mass; that will close with a maximum force of 25N; that has high security and drill resistance; that is suitable for unprung furniture; and that has five detaining elements with a minimum of 10,000 differs.

New products and systems: www.hafele.com
Mortise lock with bathroom function StarTec

Features
- For flush or rebated timber doors
- Latch operated with lever handle
- Deadbolt operated with turn and release
- Deadbolt 1-turn
- Reversible latch
- Tested to EN 12209
- Tested according to CE

Technical data
- Lever follower: 8 mm
- Distance (b): 72 mm
- Backset (a): 55 mm

Supplied with
1 Mortise lock
1 Striking plate
1 Plastic box
1 Fixing screw

Dimensions
- Lever follower: 8 mm
- Distance (b): 72 mm
- Backset (a): 55 mm

Specifications
- For flush or rebated timber doors
- Latch operated with lever handle
- Deadbolt operated with turn and release
- Deadbolt 1-turn
- Reversible latch
- Tested to EN 12209
- Tested according to CE

Technical data
- Lever follower: 8 mm
- Distance (b): 72 mm
- Backset (a): 55 mm

Supplied with
1 Mortise lock
1 Striking plate
1 Plastic box
1 Fixing screw

Materials
- Stainless steel matt (304)
- Stainless steel brass polished PVD
- Solid stainless steel
- Steel galvanized

Packing: 1 pc.

New products and systems: www.hafele.com
### Mortise lock for profile cylinder StarTec

**Features**
- For flush or rebated timber doors
- Latch operated with lever handle or key action
- Deadbolt operated with profile cylinder
- Deadbolt 2-turn
- Reversible latch
- Deadbolt, latch and follower made of stainless steel
- Tested to EN 12209
- Tested according to CE

**Technical data**
- Lever follower: 8 mm
- Distance (b): 72 mm
- Backset (a): 55 mm

**Supplied with**
1 Mortise lock  
1 Striking plate  
1 Plastic box  
1 Fixing screw

### Locking and Security

#### Mortise Locks

**Features**
- For flush or rebated timber doors
- Latch operated with lever handle or key action
- Deadbolt operated with profile cylinder
- Deadbolt 2-turn
- Reversible latch
- Deadbolt, latch and follower made of stainless steel
- Tested to EN 12209
- Tested according to CE

**Technical data**
- Lever follower: 8 mm
- Distance (b): 72 mm
- Backset (a): 55 mm

**Supplied with**
1 Mortise lock  
1 Striking plate  
1 Plastic box  
1 Fixing screw

### New products and systems: www.hafele.com

#### Mortise lock for profile cylinder StarTec

<table>
<thead>
<tr>
<th>Forend</th>
<th>Forend width 20 mm</th>
<th>Forend width 24 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Square</td>
<td>Round</td>
</tr>
<tr>
<td></td>
<td>format</td>
<td>format</td>
</tr>
<tr>
<td></td>
<td>20 mm</td>
<td>24 mm</td>
</tr>
<tr>
<td>Stainless steel matt (304)</td>
<td>911.02.143</td>
<td>911.02.151</td>
</tr>
<tr>
<td>Stainless steel brass polished PVD</td>
<td>911.02.144</td>
<td>911.02.152</td>
</tr>
<tr>
<td>Stainless steel antique copper coloured</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Stainless steel antique brass coloured</td>
<td>911.02.449</td>
<td>911.02.451</td>
</tr>
</tbody>
</table>

Packing: 1 pc.

*New products and systems: www.hafele.com*
**Features**

- For flush timber doors
- Latch operated with lever handle or key action
- Deadbolt operated with profile cylinder
- Deadbolt 2-turn
- Reversible latch
- Deadbolt, latch and follower made of stainless steel
- Tested to EN 12209
- Tested according to CE

**Technical data**

- Lever follower: 8 mm
- Distance (B): 85 mm
- Backset (A): 45,60 mm

**Supplied with**

1 Mortise lock
1 Striking plate
1 Plastic box
1 Fixing screw

**Features**

- For flush timber doors
- Latch operated with lever handle or key action
- Deadbolt operated with profile cylinder
- Deadbolt 2-turn
- Reversible latch
- Deadbolt, latch and follower made of stainless steel
- Tested to EN 12209
- Tested according to CE

**Technical data**

- Lever follower: 8 mm
- Distance (B): 85 mm
- Backset (A): 45,60 mm

**Supplied with**

1 Mortise lock
1 Striking plate
1 Plastic box
1 Fixing screw
Mortise lock for profile cylinder, with nightlatch function StarTec

Features
- For flush timber doors
- Latch operated with lever handle or key action
- Reversible latch
- Closing spring latch prevents the latchbolt from being pushed back, e.g. by a credit card

Technical data
- Lever follower: 8 mm
- Distance (B): 72 mm
- Backset (A): 55 mm

Supplied with
1 Mortise lock
1 Striking plate
1 Plastic box
1 Fixing screw

Description of function
Inside: Door can be opened by activating the lever handle (escape door function)
Outside: Door can be opened with the key

Material/Finish
<table>
<thead>
<tr>
<th>Stainless steel matt</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>911.23.427</td>
<td></td>
</tr>
</tbody>
</table>

Packing: 1 pc.

Order reference
Required fittings:
- Inside: Lever handle
- Outside: Door knob, fixed

Supplied with
- Mortise lock
- Striking plate
- Plastic box
- Fixing screw

Locking and Security
Mortise Locks

We reserve the right to alter specifications without notice. (HTH Architectural Hardware 2015)
**Features**
- For flush timber doors
- Latch operated with lever handle or key action
- Reversible latch

**Technical data**
- Lever follower: 8 mm
- Distance (B): 72 mm
- Backset (A): 55 mm

**Supplied with**
- 1 Mortise lock
- 1 Striking plate
- 1 Plastic box
- 1 Fixing screw

**Description of function**
- Opening of the door from inside and outside is possible
- By locking of the door the inside and outside handle is blocked
- Opening of the door from inside is still possible

**Material/Finish**

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel matt</td>
<td>911.23.429</td>
</tr>
</tbody>
</table>

**Order reference**

Required fitting:
- Split spindle
Mortise lock for double action doors and profile cylinder StarTec
คลิปถมลูกบุญควาย สำหรับประตูบานเปิด 2 ทาง StarTec

Features
- For flush timber doors
- Deadbolt operates with profile cylinder
- Deadbolt 2-turn
- Roller latch operate free moveable

Technical data
- Roller latch adjustable (c): 3-8 mm
- Backset (a): 55 mm

Supplied with
1 Mortise lock
1 Striking plate
1 Plastic box
1 Fixing screw

Mortise lock for double action doors and profile cylinder StarTec
คลิปถมลูกบุญควาย สำหรับประตูบานเปิด 2 ทาง StarTec

Material/Finish
Stainless steel matt
Cat. No. 911.24.058
Packaged: 1 pc.

New products and systems: www.hafele.com
ผลิตภัณฑ์และวัสดุระบบใหม่: www.hafele.com
Mortise lock for profile cylinder, with panic function StarTec

Features
• For flush timber doors
• Latch operated with lever handle or key action
• Deadbolt 1-turn
• Reversible latch

Technical data
• Lever follower: 8 mm, split spindle
• Distance (B): 72 mm
• Backset (A): 55 mm

Supplied with
1 Mortise lock
1 Striking plate
1 Plastic box
1 Fixing screw

Description of function
Inside: Door can be opened by activating the lever handle and locked with the key (escape door function).
Outside: Door can be opened and locked with the key and by activating the lever handle. For security the door must be locked with the key.

Material/Finish
Stainless steel matt
Cat. No. 911.51.400

Packing: 1 pc.
Mortise cylinder lock for tubular door frames StarTec

cylinder locks for tubular door frames

Features
- For tubular door frames of metal, timber or plastic
- Latch operated with lever handle or key action
- Deadbolt operates with profile cylinder
- Tested to DIN 18 251–2
- Deadbolt 1-turn
- Reversible latch

Technical data
- Lever follower: 8 mm
- Distance (b): 92 mm
- Forend width: 24 mm

Material/Finish
- Stainless steel matt (304)
- Zinc alloy nickel plated
- Steel galvanized

Product
- Flat striking plate StarTec

Features
- For metal, plastic or timber frames
- For tubular door frames
- Suitable for DIN left and right hand

Material/Finish
- Stainless steel matt (304)

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel matt (304)</td>
<td>911.76.011</td>
</tr>
</tbody>
</table>

Packing: 1 pc.

We reserve the right to alter specifications without notice (HTH Architectural Hardware 2015).
Narrow frame mortise lock for profile cylinder

Features
- For tubular door frames of metal, timber or PVC
- Latch operated with lever handle or key action
- Deadbolt operates with profile cylinder
- Deadbolt 2-turn, reversible latch

Technical data
- Lever follower (c): 8 mm
- Distance (b): 92 mm

Supplied with
1 Mortise lock
1 Fixing screw

Order reference
Please order striking plate (911.76.120) separately.

Narrow frame mortise lock for double action doors and profile cylinder

Features
- For flush timber doors
- Deadbolt operates with profile cylinder
- Deadbolt 2-turn, roller latch operates free moveable

Technical data
- Roller latch (c) adjustable: 1–9 mm

Supplied with
1 Mortise lock
1 Fixing screw

Order reference
Please order striking plate (911.76.121) separately.
Mortise lock, with bathroom function StarTec

Features
- For flush timber doors
- Latch operated with lever handle
- Deadbolt operated with turn and release
- Deadbolt 1-turn
- Reversible latch
- Tested to EN certificate

Technical data
- Lever follower: 8 mm
- Distance (b): 78 mm
- Backset (a): 55 mm

Supplied with
1 Mortise lock
1 Striking plate
1 Plastic box
1 Fixing screw

Forend
Stainless steel (304)

Latch/deadbolt
Zinc alloy, nickel plated

Lock case
Steel galvanized

Deadbolt follower
Zinc alloy

Cat. No.
911.07.211

Packing: 1 pc.
13.02.2014

New products and systems: www.hafele.com

We reserve the right to alter specifications without notice. (HTH Architectural Hardware 2015.)
**Mortise lock for profile cylinder StarTec**

**features**
- For flush timber doors
- Latch operated with lever handle or key action
- Deadbolt operated with profile cylinder
- Deadbolt 2-turn
- Reversible latch
- Tested to EN Certificate

**technical data**
- Lever follower: □ 8 mm
- Distance (b): 72 mm
- Backset (a): 55 mm

**supplied with**
- 1 Mortise lock
- 1 Striking plate
- 1 Plastic box
- 1 Fixing screw

---

<table>
<thead>
<tr>
<th>Forend</th>
<th>Latch</th>
<th>Dead bolt</th>
<th>Lock case</th>
<th>Lever follower</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel (304)</td>
<td>Cast steel plated polished</td>
<td>Steel nickel plated polished</td>
<td>Steel galvanized and hammer blow lacquered</td>
<td>Cast steel</td>
<td>911.07.082</td>
</tr>
<tr>
<td>Brass polished</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>911.07.083</td>
</tr>
</tbody>
</table>

**Packing:** 1 pc.

---

**We reserve the right to alter specifications without notice.**

**HTH Architectural Hardware 2015.**
**Mortise cylinder lock StarTec**

**Features**
- For flush timber or steel doors
- Latch operated with lever handle or key action
- Deadbolt operated with turn and release

**Technical data**
- Lever follower: 8 mm
- Distance (b): 72 mm
- Backset (a): 55 mm

**Supplied with**
- 1 Mortise lock
- 1 Striking plate
- 1 Fixing screw

**Specifications**
- 8 mm
- 72 mm
- 55 mm

**Supplied with**
- 1 Mortise lock
- 1 Striking plate
- 1 Fixing screw

**Features**
- Light counter spring version knob in combination with mortise lock
- Steel nickel plated polished
- Steel galvanized and hammer blow lacquered

**Cat. No.**
- 911.02.182
- 911.02.183

**Packing**
- 1 pc. incl. fixing material
- 1 chub

**Specifications**
- Light counter spring version knob in combination with mortise lock
- Steel nickel plated polished
- Steel galvanized and hammer blow lacquered

**Cat. No.**
- 911.02.182
- 911.02.183

**Packing**
- 1 pc. incl. fixing material
- 1 chub
Mortise lock with magnetic latch for bathroom function

**Features**
- For flush or rebated timber doors
- Latch operated with lever handle
- Deadbolt operated with turn and release
- Deadbolt 1-turn
- Suitable for DIN left and DIN right hand
- For internal door

**Technical data**
- Lever follower: 8 mm
- Distance (b): 78 mm
- Backset (a): 55 mm
- Forend: 20 mm

**Supplied with**
1 Mortise lock

**Material/Finish**

<table>
<thead>
<tr>
<th>Latch/Deadbolt/Follower</th>
<th>Dead bolt</th>
<th>Lock case</th>
</tr>
</thead>
<tbody>
<tr>
<td>PVC latch provided with a magnet</td>
<td>Steel nickel plated polished</td>
<td>Steel galvanized</td>
</tr>
</tbody>
</table>

**Cat. No.**
911.07.035

**Packing:** 1 pc.

---

**Striking plate**

**Features**
- For flush or rebated timber doors
- For magnetic mortise lock
- For DIN left and DIN right

**Material/Finish**

<table>
<thead>
<tr>
<th>Striking plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel matt</td>
</tr>
</tbody>
</table>

**Cat. No.**
911.39.513

**Packing:** 1 pc.
Mortise lock for profile cylinder with magnetic latch/patio function

Features
- For flush or rebated timber doors
- Latch operated with lever handle
- Deadbolt operated with turn and release
- Deadbolt 2-turn
- Suitable for DIN left and DIN right hand
- For internal door

Technical data
- Lever follower: 8 mm
- Distance (b): 72 mm
- Backset (a): 55 mm
- Forend: 20 mm

Supplied with
1 Mortise lock

Material/Finish

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Latch/Deadbolt/Follower</th>
<th>Lock case</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel matt</td>
<td>PVC latch provided with a magnet</td>
<td>Steel galvanized</td>
<td>911.07.036</td>
</tr>
</tbody>
</table>

Packing: 1 pc.

Striking plate

Features
- For flush or rebated timber doors
- For magnetic mortise lock
- For DIN left and DIN right

Material/Finish

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel matt</td>
<td>911.39.513</td>
</tr>
</tbody>
</table>

Packing: 1 pc.

01.10.2015
Mortise lock for profile cylinder with Quiet-Comfort latch

Features
- With Quiet-Comfort-Equipment for quiet closing of the door
- For flush wooden doors
- Latch operated with lever handle or profile cylinder (key action)
- Deadbolt operated with profile cylinder
- Deadbolt: 2-turn

Technical data
- Lever follower: 8 mm
- Distance (b): 72 mm
- Backset (a): 55 mm

Supplied with
- 1 Mortise lock
- 1 Striking plate
- 1 Plastic box
- 1 Fixing screw

Material/Finish

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Latch/deadbolt</th>
<th>Follower</th>
<th>Lock case</th>
<th>Version</th>
<th>Cat. No.</th>
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</thead>
<tbody>
<tr>
<td>Stainless steel matt สแตนเลสสแตนเลส</td>
<td>Zinc alloy สีนิคคลิ่ง</td>
<td>Polyamide/steel โพลีแอมิเด/เหล็ก</td>
<td>Steel galvanized เหล็กชุบกล้าในเชิง</td>
<td>DIN left แนวเบ็ทซีที่ซ้าย</td>
<td>911.03.578</td>
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<td></td>
<td>DIN right แนวเบ็ทซีที่ขวา</td>
<td>911.03.579</td>
</tr>
</tbody>
</table>

Packing: 1 pc.

We reserve the right to alter specifications without notice. HÄFELE Architectural Hardware 2015.

13.03.2015
Mortise cylinder lock StarTec
สลับประตูแบบมอร์ทไซล์ StarTec

Features
- For flush or rebated timber doors
- Latch operated with lever handle or key action
- Deadbolt operated with turn and release
- Deadbolt 2-turn
- Reversible latch
- Removable forend
- Tested to DIN 18251 part 1 category 3

Technical data
- Lever follower: □ 8 mm
- Distance (b): 72 mm
- Backset (a): 55 mm

Supplied with
- 1 Mortise lock
- 1 Striking plate
- 1 Removable forend
- 1 Fixing screw

Materials
- Locking and Security
- Mortise Locks

<table>
<thead>
<tr>
<th>Forend</th>
<th>Latch</th>
<th>Dead bolt</th>
<th>Lock case</th>
<th>Cat. No.</th>
<th>Resslcfuckje</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel matt (304)</td>
<td>Cast steel nickel plated polished</td>
<td>Steel nickel plated polished</td>
<td>Steel galvanized and hammer blow lacquered</td>
<td>911.02.190</td>
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<td>Stainless steel matt (316)</td>
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<td>911.02.191</td>
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<tr>
<td>Stainless steel brass polished</td>
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<td>911.02.192</td>
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<tr>
<td>Stainless steel antique copper</td>
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<td></td>
<td>911.02.193</td>
<td></td>
</tr>
<tr>
<td>Stainless steel antique brass</td>
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<td></td>
<td>911.02.194</td>
<td></td>
</tr>
</tbody>
</table>

13.02.2014
Mortise lock with self-locking

don't have a locking system

Features
• Self-locking by deadbolt
• Anti-panic function - free accessibility by inner handle
• Can unlock by key from outside
• No need electrical control
• Free choice of handles
• Deadbolt 1 turn
• Suitable for or DIN left and DIN right hand
• Lever follower: 9 mm with reduction adaptor to 8 mm

Supplied with
1 Mortise lock
1 Reduction adaptor to 8 mm
1 Set of fixing material

Specifications
• Locking and Security
• Mortise Locks

Supplied with
1 Mortise lock
1 Reduction adaptor to 8 mm
1 Set of fixing material

Stainless steel matt
911.52.068

Cat. No.

Packing: 1 pc.

<table>
<thead>
<tr>
<th>Forend</th>
<th>Latch/deadbolt/lock case/follower</th>
<th>Stainless steel matt</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>latch/deadbolt/lock case/follower</td>
<td>stainless steel matt</td>
<td>911.52.068</td>
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<tr>
<td></td>
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<td>steel</td>
<td></td>
</tr>
</tbody>
</table>

We reserve the right to alter specifications without notice (HTH Architectural Hardware 2015).
## Electric door opener

### TECHNICAL DATA

**Power supply voltage V DC**
- Max. 30 V DC 500 mA

**Driver voltage V AC/DC**
- 5-48 V

**Rate current mA**
- 500

**Bolt depth mm**
- 20

**Approx. time to complete unlock sec**
- 0.8

**Unlocking time sec**
- 3

**Strength force N**
- 6,000

**Operating temperature °C**
- -20 – +60

**Distance between forend and striking plate mm**
- 2-5.5

### VERSION

<table>
<thead>
<tr>
<th>Plate mm</th>
<th>Door type</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>256 x 24 x 3</td>
<td>DIN left and right</td>
<td>911.68.081</td>
</tr>
<tr>
<td>500 x 34/26 x 3</td>
<td>DIN left</td>
<td>911.68.082</td>
</tr>
<tr>
<td></td>
<td>DIN right</td>
<td>911.68.083</td>
</tr>
</tbody>
</table>

### PACKAGING
- 1 pc.

---

**New products and systems:** [www.hafele.com](http://www.hafele.com)
### Mortise latch StarTec

**Features**
- For timber doors
- Operated with turn and release or lever handle
- Suitable for DIN left and right hand

**Technical data**
- Backset (a): 60 mm
- Lever follower: 8 mm

**Material/Finish**

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Stainless steel matt (304)</th>
<th>Brass polished</th>
</tr>
</thead>
<tbody>
<tr>
<td>911.23.172</td>
<td>911.23.173</td>
<td>911.22.406</td>
</tr>
</tbody>
</table>

**Packing:** 1 pc. incl. fixing material

### Mortise bolt StarTec

**Features**
- For timber doors
- Operated with turn and release
- Deadbolt 1-turn
- Suitable for DIN left and right hand

**Technical data**
- Backset (a): 60 mm
- Lever follower: 8 mm

**Material/Finish**

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Stainless steel matt (304)</th>
<th>Brass polished</th>
</tr>
</thead>
<tbody>
<tr>
<td>911.22.406</td>
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<td>911.22.406</td>
</tr>
</tbody>
</table>

**Packing:** 1 pc. incl. fixing material

 порядок изменения: 2015
**Mortise deadbolt lock**

**Features**
- For timber doors
- Deadbolt operated with turn
- Suitable for DIN left and right hand

**Technical data**
- Lever follower: □ 8 mm
- Backset (A): 55 mm

**Material/Finish**

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel (304)</td>
<td>Stainless steel (304)</td>
<td>911.22.552</td>
</tr>
<tr>
<td>Brass polished PVD</td>
<td>Antique brass</td>
<td>911.22.554</td>
</tr>
<tr>
<td>Antique brass</td>
<td>Antique copper</td>
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</tr>
<tr>
<td>Antique copper</td>
<td>911.22.555</td>
<td></td>
</tr>
</tbody>
</table>

**Packing:** 1 pc.

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**Mortise deadbolt lock**

**Features**
- For timber doors
- Deadbolt operated with turn
- Deadbolt 2-turn

**Technical data**
- Lever follower: □ 8 mm
- Backset (A): 55 mm

**Material/Finish**

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel (304)</td>
<td>Stainless steel (304)</td>
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<tr>
<td>Brass polished PVD</td>
<td>Antique brass</td>
<td>911.22.554</td>
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<tr>
<td>Antique brass</td>
<td>Antique copper</td>
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</tr>
<tr>
<td>Antique copper</td>
<td>911.22.555</td>
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</tbody>
</table>

**Packing:** 1 pc.

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*New products and systems: www.hafele.com*

*措施和永久* https://www.hafele.com
Mortise deadbolt lock
คลิปออซซากซ์หลุมล็อกเดดบอมนิด้า

Features
• For timber doors
• Deadbolt operated with profile cylinder
• Deadbolt 2-turn

Technical data
• Backset (A): 55 mm

Material/Finish
<table>
<thead>
<tr>
<th></th>
<th>Deadbolt/forend</th>
<th>Cat. No.</th>
<th>Backset (A) mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel (304)</td>
<td>Stainless steel</td>
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<tr>
<td>Zinc alloy</td>
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</tr>
<tr>
<td>Brass polished</td>
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<tr>
<td>Antique brass</td>
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<td>911.22.277</td>
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</tr>
<tr>
<td>Antique copper</td>
<td>25</td>
<td>911.22.278</td>
<td></td>
</tr>
</tbody>
</table>

Material/Finish
<table>
<thead>
<tr>
<th></th>
<th>Deadbolt/forend</th>
<th>Cat. No.</th>
<th>Backset (a) mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel (304)</td>
<td>Stainless steel</td>
<td>911.22.546</td>
<td></td>
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<tr>
<td>Brass polished</td>
<td>25</td>
<td>911.22.272</td>
<td></td>
</tr>
<tr>
<td>Antique brass</td>
<td>25</td>
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<td></td>
</tr>
<tr>
<td>Antique copper</td>
<td>25</td>
<td>911.22.276</td>
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</tr>
</tbody>
</table>

Packing: 1 pc.

Mortise deadbolt lock StarTec
คลิปออซซากซ์หลุมล็อกเดดบอมนิด้าสำหรับประตูพีเอ็มเอ ศรีทน

Features
• For timber doors
• Deadbolt operated with profile cylinder
• Deadbolt 1-turn

Material/Finish
<table>
<thead>
<tr>
<th></th>
<th>Deadbolt/forend</th>
<th>Cat. No.</th>
<th>Backset (A) mm</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Stainless steel</td>
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<tr>
<td>Zinc alloy</td>
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<tr>
<td>Brass polished</td>
<td>25</td>
<td>911.22.274</td>
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</tr>
<tr>
<td>Antique brass</td>
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Material/Finish
<table>
<thead>
<tr>
<th></th>
<th>Deadbolt/forend</th>
<th>Cat. No.</th>
<th>Backset (a) mm</th>
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<tr>
<td>Stainless steel (304)</td>
<td>Stainless steel</td>
<td>911.22.546</td>
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<tr>
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<td>911.22.275</td>
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<tr>
<td>Antique copper</td>
<td>25</td>
<td>911.22.276</td>
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</tbody>
</table>

Packing: 1 pc.

New products and systems: www.hafele.com
ผลิตภัณฑ์และระบบใหม่: www.hafele.com
Mortise roller lock

Features
- For flush doors
- Roller operates with profile cylinder, lockable and key action

Technical data
- Backset (a): 55 mm
- Roller latch moveable (c): 5–12 mm

Supplied with
1 Mortise lock
1 Striking plate
1 Plastic box
1 Fixing screw

Specimen
- Suitable for flush doors
- Roller acts with profile cylinder, lockable and key action

Technical data
- Backset (a): 55 mm
- Roller latch moveable (c): 5–12 mm

Supplied with
1 Mortise lock
1 Striking plate
1 Plastic box
1 Fixing screw

Mortise swing door latch

Features
- For flush doors
- Rolling latch not lockable

Technical data
- Roller latch moveable: 7–15 mm

Supplied with
1 Mortise swing latch
1 Striking plate
1 Plastic box
1 Fixing screw

Specimen
- Suitable for flush doors
- Rolling latch not lockable

Technical data
- Roller latch moveable: 7–15 mm

Supplied with
1 Mortise swing latch
1 Striking plate
1 Plastic box
1 Fixing screw

Packing: 1 pc. incl. fixing material

27.11.2015
Mortise lock for sliding door StarTec

Features
- For timber doors
- Compass bolt operates with profile cylinder

Technical data
- Backset (A): 55 mm

Specifications:
- For timber doors
- Compass bolt operates with profile cylinder
- Technical data:
  - Backset (A): 55 mm

Options:
- Stainless steel matt (304)
- Brass polished PVD
- Antique copper
- Antique brass

Packing: 1 pc
Cat. No.: 911.26.292

Options:
- Stainless steel matt (304)
- Brass polished PVD
- Antique copper
- Antique brass

Packing: 1 pc
Cat. No.: 911.26.293

Options:
- Stainless steel matt (304)
- Brass polished PVD
- Antique copper
- Antique brass

Packing: 1 pc
Cat. No.: 911.26.294

Options:
- Stainless steel matt (304)
- Brass polished PVD
- Antique copper
- Antique brass

Packing: 1 pc
Cat. No.: 911.26.295
Mortise pull handle for sliding door

Features
- For timber doors

Technical data
- Backset: 50 mm
- For door thickness: 35–45 mm

Supplied with
1 Mortise lock
1 Striking plate
1 Pairs of flush handles

Material/Finish

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Flush handle round</th>
<th>Dummy handle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc alloy nickel plated satin</td>
<td>911.26.523</td>
<td>911.26.528</td>
</tr>
<tr>
<td>Zinc alloy brass plated polished</td>
<td>911.26.525</td>
<td>911.26.530</td>
</tr>
<tr>
<td>Zinc alloy antique brass plated</td>
<td>911.26.524</td>
<td>911.26.529</td>
</tr>
<tr>
<td>Zinc alloy antique copper plated</td>
<td>911.26.526</td>
<td>911.26.531</td>
</tr>
</tbody>
</table>

Packing: 1 pair

*We reserve the right to alter specifications without notice (HTH Architectural Hardware 2015).*
Flush ring pull handle
มือจับประตูแบบฝัง

Features
• For locks with 8 mm lever follower

Installation
• Screw fixing

Supplied with
1 Pair flush ring pull handles
  Fixing material
1 Spindle 8 x 60 mm

Material/Finish
Cat. No.

Stainless steel matt (304)
902.01.280

Packing: 1 pair

Material/Finish
Cat. No.

Stainless steel polished (304)
902.00.591

01.10.2015

Flush ring pull handle with spindle
มือจับประตูแบบฝัง พร้อมแขนมือจับ

Features
• For locks with 8 mm lever follower

Installation
• Screw fixing

Supplied with
1 Pair flush ring pull handles
  Fixing material
1 Spindle 8 x 60 mm

Material/Finish
Cat. No.

Stainless steel matt (304)
902.00.590

Packing: 1 pair

Material/Finish
Cat. No.

Stainless steel polished (304)
902.00.591
Flush handle
มีลิ้นชักแบบหนา

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel matt</td>
<td>152.51.051</td>
</tr>
<tr>
<td>Antique copper</td>
<td>152.51.031</td>
</tr>
<tr>
<td>Antique brass</td>
<td>152.51.551</td>
</tr>
</tbody>
</table>

Packing: 1 pc.

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel matt</td>
<td>152.52.051</td>
</tr>
<tr>
<td>Antique copper</td>
<td>152.52.031</td>
</tr>
<tr>
<td>Antique brass</td>
<td>152.52.551</td>
</tr>
</tbody>
</table>

Packing: 1 pc.
Mortise lock for sliding tubular door frame StarTec

Features
- For tubular door frames made of metal, timber or plastic
- Hook pivot bolt is operated by profile cylinder
- Bolt 1-turn
- Protection against sawing by steel pin, inserted in hook pivot bolt

Cocktails
- Suitable for metal, timber or plastic frames
- For tubular door frame
- Suitable for DIN left and right hand

Supplied with
1 Set of fixing material

Material/Finish
<table>
<thead>
<tr>
<th>Stainless steel matt (304)</th>
<th>Zinc alloy/steel nickel plated</th>
<th>Steel galvanized</th>
<th>Backset (a) mm</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>911.75.111</td>
<td>911.75.113</td>
<td>30</td>
<td>35</td>
<td></td>
</tr>
</tbody>
</table>

Packing: 1 pc.

Flat striking plate

Features
- For metal, timber or plastic frames
- For tubular door frame
- Suitable for DIN left and right hand

Supplied with
1 Set of fixing material

Material/Finish
<table>
<thead>
<tr>
<th>Stainless steel matt (304)</th>
<th>Zinc alloy/steel nickel plated</th>
<th>Steel galvanized</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>911.76.026</td>
<td>911.76.028</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

Packing: 1 pc.

We reserve the right to alter specifications without notice (HTH Architectural Hardware 2015).
Mortise lock for sliding tubular door frames StarTec

Features
- For tubular door frames of timber, metal and plastic
- Compass bolt operates with profile cylinder
- Bolt 1-turn

Technical data
- Backset (a): 20 mm

Supplied with
1 Mortise lock

-flat striking plate

- Suitable for DIN left hand and DIN right hand

Features
- For timber, metal and plastic frames
- For tubular door frames
- Suitable for DIN left hand and DIN right hand

Technical data
- Backset (a): 20 mm

Supplied with
1 Mortise lock
Mortise pull handle for sliding door StarTec

Features
- For timber doors
- To pull the sliding door out of wall pocket

คุณสมบัติ
- สำหรับประตูไม้
- มีจุดเชื่อมต่อสำหรับประตูเลื่อน

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel chrome plated polished</td>
<td>911.26.247</td>
</tr>
<tr>
<td>Stainless steel brass plated polished</td>
<td>911.26.245</td>
</tr>
<tr>
<td>Stainless steel nickel plated polished</td>
<td>911.26.246</td>
</tr>
</tbody>
</table>

Packing: 1 pc.

Features
- For timber doors
- With pull handle for pocket door
- Pull handle is released by push button

คุณสมบัติ
- สำหรับประตูไม้
- มีจุดเชื่อมต่อสำหรับประตูเลื่อนชั้น
- มีจุดเชื่อมต่อได้ โดยการกดปุ่ม

<table>
<thead>
<tr>
<th>Forend</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel matt (304)</td>
<td>911.26.012</td>
</tr>
<tr>
<td>Brass polished protective lacquer</td>
<td>911.26.013</td>
</tr>
</tbody>
</table>

Packing: 1 pc.

New products and systems: www.hafele.com
Multiple locking device with 2 locking bolts
อุปกรณ์มีลิ้นชักพร้อมล็อคตัด 2 จุด

**Features**
- For timber wood
- Reversible latch for DIN left and DIN right hand
- Latch and deadbolt 2-turn are operated with profile cylinder
- With 2 locking bolts

**Technical data**
- Lever follower: 8 mm
- Backset (a): 55 mm
- Distance (b): 72 mm
- Lever handle height (c): 1,000 mm
- Forend length (d): 2,170 mm

**Dimensions**

**Description**
- Forend: 40 x 300 x 2,170 mm
- Latch/follower: 20 x 22 x 100 mm
- Dead bolt/locking bolt/lock case: 10 x 10 x 100 mm

**Materials**
- Forend: Steel galvanized silver coloured
- Latch/follower: Zinc alloy
- Dead bolt/locking bolt/lock case: Steel

**Catalogue Number**
- 911.50.131
Multiple locking device with locking bolts
อุปกรณ์มีลิ้นล็อค

Features
- For timber doors
- Reversible latch for DIN left and right hand
- Latch operates with lever handle and key action
- Deadbolt and locking bolts are operated with profile cylinder, 2-turn
- Tested to DIN 18251-3

Technical data
- Lever follower: 8 mm
- Backset (a): 55 mm
- Distance (b): 72 mm

คุณสมบัติ
- สำหรับประตูไม้
- ล็อคได้ทับบนประตูและสามารถใช้บิดเป็นข้างที่ใดก็ได้
- ล็อตได้ด้วยหินประตูและหุ้น
- ล็อคประตูได้ด้วยกลไกล็อค 2 จังหวะ
- ทดสอบตามมาตรฐาน DIN 18251-3

ข้อมูลทางเทคนิค
- ขนาดหุ้นเครื่อง: 8 มม.
- ระยะจากประตู (a): 55 มม.
- ระยะของหุ้นเครื่อง (b): 72 มม.

Forend
ผลิตภัณฑ์

<table>
<thead>
<tr>
<th>Material</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel (304)</td>
<td>911.46.085</td>
</tr>
<tr>
<td>Stainless steel (304)</td>
<td>911.46.085</td>
</tr>
</tbody>
</table>
Electrical multiple locking device with 2 automatic locking bolts

**Features**
- For timber doors for DIN left and DIN right hand
- Latch and deadbolt 1-turn are operated with profile cylinder
- With 2 automatic latchbolts, prelocking automatically when the door is closed

**Technical data**
- Power supply: 12 V AC/DC, max. 1 A
- Degree of protection: IP 40
- Lever follower: 10 mm

**Supplied with**
1. Multiple locking device
2. Connection cable approx. 6 m with plug and wire end sleeves
3. Plug with wire end sleeve

**Opening and locking function**
**Automatic locking:**
- Latchbolts are automatically pre-locked when the door is closed
- Inside: By push the button, i.e. intercom
- Latchbolt and automatic latchbolt retracting simultaneously
- Outside: By access control system

**Mechanical activation (always possible):**
- Inside: By lever handle activation
- Outside: By key

**Product details**
- Automatic latchbolt/deadbolt
- Latch/follower
- Lock case

**Materials**
- **Forend:** Stainless steel matt
- **Automatic latchbolt/deadbolt:** Zinc alloy with hardened steel core
- **Latch/follower:** Zinc alloy
- **Lock case:** Steel

**Cat. No.:** 911.49.065

---

New products and systems: [www.hafele.com](http://www.hafele.com)
Flanged striking plate for locking bolt

Features
- For multiple locking device with locking bolt

Technical data
- Forend: 20 mm
- For 4 mm rebate gap
- Closing pressure adjustable by +2 mm

Material/Finish
- Stainless steel silver coloured galvanized

Stainless steel silver coloured galvanized 911.39.510

Flanged striking plate for automatic latchbolt

Features
- For multiple locking device with automatic latchbolt

Technical data
- Forend: 24 mm
- For rebate gap: 14–16 mm
- Closing pressure adjustable by +2 mm

Material/Finish
- Stainless steel matt

Stainless steel matt 911.39.214

Flanged striking plate

Features
- For multiple locking devices locking bolt
- For flush doors
- Lug straight for DIN left and right hand

Material/Finish
- Stainless steel matt (304)

Stainless steel matt (304) 911.39.810
**Adjustable flanged striking plate**

**Features**
- For timber door and flush door
- Straight flange, adjustment range 3 mm

**Material/Finish**

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>DIN left hand</th>
<th>DIN right hand</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel matt</td>
<td>911.39.216</td>
<td>911.39.217</td>
</tr>
</tbody>
</table>

**Packing:** 1 pc. incl. fixing material

---

**Flanged striking plate**

**Features**
- For metal, plastic or timber doors, for flush doors
- Lug curve

**Material/Finish**

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>DIN left hand</th>
<th>DIN right hand</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel (304)</td>
<td>911.39.007</td>
<td>911.39.008</td>
</tr>
<tr>
<td>Brass polished</td>
<td>911.39.009</td>
<td>911.39.010</td>
</tr>
</tbody>
</table>

**Packing:** 1 pc. incl. fixing material

---

**Flanged striking plate StarTec**

**Features**
- For metal, plastic or timber frames, for flush doors
- Lug curve
- Suitable for DIN left and right hand

**Material/Finish**

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel matt</td>
<td>911.39.810</td>
</tr>
<tr>
<td>Brass polished</td>
<td>911.39.812</td>
</tr>
<tr>
<td>Antique copper</td>
<td>911.39.813</td>
</tr>
<tr>
<td>Antique brass</td>
<td>911.39.814</td>
</tr>
</tbody>
</table>

**Packing:** 1 pc. incl. fixing material

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New products and systems: www.hafele.com

โปรดติดต่อเราเพื่อขอสินค้าหรือข้อมูลเพิ่มเติม: www.hafele.com
Recessed striking plate StarTec

**Features**
- For rebated doors
- Suitable for DIN left and right hand
- With plastic tray

**Material/Finish**

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel matt (304)</td>
<td>911.39.013</td>
</tr>
<tr>
<td>Brass polished with protective lacquer</td>
<td>911.39.323</td>
</tr>
</tbody>
</table>

**Packing:** 1 pc.  

---

Striking plate StarTec

**Features**
- For timber frames, for rebated and flush doors
- Suitable for DIN left and right hand

**Material/Finish**

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel matt (304)</td>
<td>911.39.332</td>
</tr>
<tr>
<td>Brass polished with protective lacquer</td>
<td>911.39.333</td>
</tr>
</tbody>
</table>

**Packing:** 1 pc.  

---

Flanged striking plate StarTec

**Features**
- For timber frames, for flush doors
- Suitable for DIN left and right hand
- Lug angled

**Material/Finish**

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel matt (304)</td>
<td>911.39.322</td>
</tr>
<tr>
<td>Brass polished with protective lacquer</td>
<td>911.39.323</td>
</tr>
</tbody>
</table>

**Packing:** 1 pc.  

---

We reserve the right to alter specifications without notice. HTH Architectural Hardware 2015.  

New products and systems: www.hafele.com  

ผลิตภัณฑ์และระบบอุปกรณ์ใหม่: www.hafele.com
Deadbolt pocket StarTec

Features
- Suitable for 2-turn locks
- For striking plate

Material/Finish
- Plastic black
  - Cat. No. 911.39.074

Striking plate plastic box StarTec

Features
- For striking plates
- For deadbolt 2-turn
- Suitable for DIN left and right hand

Installation
- Screw fixing

Material/Finish
- Plastic white
  - Cat. No. 911.76.060
- Plastic black
  - Cat. No. 911.76.061

Adjustment spindle for the lever handle follower StarTec

Features
- Mounting accessories for door handle
- For installation into the lever follower

Material/Finish
- Steel bright
  - Compensation
    - 7 to 8
      - Cat. No. 909.40.500
    - 8 to 9
      - Cat. No. 909.40.501
    - 8 to 10
      - Cat. No. 909.40.502

New products and systems: www.hafele.com
Contact details and sales service: www.hafele.com
Locking and Security
Mortise Locks

Electric strike
ชุดรับกลอนไฟฟ่า

Features
- For wooden or metal door frames

Technical data
- Voltage: 6–12 V AC/DC
- Direct current consumption: 6 V = 0.80 A, 12 V = 1.53 A
- Alternating current consumption: 6 V = 0.65 A, 12 V = 1.35 A
- Resistance: 6.5

Material/Finish
- Housing and latch: Zinc alloy
- Striking plate: Stainless steel matt

Function
- With adjustable latch
- Fail-secure (fail-locked)

Electric strike without striking plate
ชุดรับกลอนไฟฟ่าไม่มีเหล็กกลอน

Technical data
- Voltage: 6–12 V AC/DC
- Direct current consumption: 6 V = 0.80 A, 12 V = 1.53 A
- Alternating current consumption: 6 V = 0.65 A, 12 V = 1.35 A
- Resistance: 6.5

Material/Finish
- Housing and latch: Zinc alloy
- Striking plate: Stainless steel matt

Function
- With adjustable latch
- Fail-secure (fail-locked)

Version
รูปแบบ

Electric strike without striking plate
ชุดรับกลอนไฟฟ่า
ไม่มีเหล็กกลอน
DIN left and right
911.68.019

Flat striking plate
เหล็กกลอนแบบแบบ
DIN left and right
911.68.025

With angled striking plate
เหล็กกลอนแบบมีที่วาง
DIN left
911.68.040

DIN right
911.68.041

Mounting
การติดตั้ง

New products and systems: www.hafele.com
ผลิตภัณฑ์และอุปกรณ์ใหม่: www.hafele.com
Electric strike model 116

Features
- For wooden or metal door frames
- For flush door

Technical data
- Voltage: 6–12 V AC/DC
- Direct current consumption: 6 V = 0.66 A, 12 V = 1.30 A
- Alternating current consumption: 6 V = 0.55 A, 12 V = 1.10 A
- Resistance: 9.1

Material/Finish
- Housing and latch: Zinc alloy
- Striking plate: Stainless steel matt

Function
- With adjustable latch
- Fail-secure (fail-locked)

Model 116 without striking plate
รุ่น 116 ไม่มีเหล็กกดตาม

Model 116E with flat striking plate
รุ่น 116E มีเหล็กกดตามแบบแบน

Model 116E with angled striking plate
รุ่น 116E มีเหล็กกดตามแบบมีชายตัด

Features
- For wooden or metal door frames
- For flush door

Technical data
- Voltage: 6–12 V AC/DC
- Direct current consumption: 6 V = 0.66 A, 12 V = 1.30 A
- Alternating current consumption: 6 V = 0.55 A, 12 V = 1.10 A
- Resistance: 9.1

Material/Finish
- Housing and latch: Zinc alloy
- Striking plate: Stainless steel matt

Function
- With adjustable latch
- Fail-secure (fail-locked)

Model 116 without striking plate
รุ่น 116 ไม่มีเหล็กกดตาม

Model 116E with flat striking plate
รุ่น 116E มีเหล็กกดตามแบบแบน

Model 116E with angled striking plate
รุ่น 116E มีเหล็กกดตามแบบมีชายตัด

Features
- For wooden or metal door frames
- For flush door

Technical data
- Voltage: 6–12 V AC/DC
- Direct current consumption: 6 V = 0.66 A, 12 V = 1.30 A
- Alternating current consumption: 6 V = 0.55 A, 12 V = 1.10 A
- Resistance: 9.1

Material/Finish
- Housing and latch: Zinc alloy
- Striking plate: Stainless steel matt

Function
- With adjustable latch
- Fail-secure (fail-locked)
Cable transition model KUE 480
ท่อร้อยสายรุ้ง KUE 480

Features
- For power supply from door frame to door panel
- Concealed installation

Technical data
- Max. flexible cable Ø8 mm through
- Max. opening angle: 180°

Materials/Finish
Stainless steel matt
Cat. No. 912.02.010
Mortise jig for cutting a mortise lock

**Features**
- For the rational fitting of mortise locks
- Also ideal for on-the-spot fitting
- Made for small quantity of router jobs
- Continuously adjustable for all common door thicknesses
- Maxi. routing depth: 100 mm, extendable with 285 mm shaft
- Use with a normal electric drill of 13 mm chuck
- With transport case

**Supplied with**
- 1 Routing gauge
- 1 Shaft length 220 mm
- 1 Router Ø18 mm
- 1 Router Ø20 mm
- 1 Router Ø24 mm
- 1 Depth stop
- 1 3 mm Allen key
- 1 Transport case

**Area of application**

<table>
<thead>
<tr>
<th>Description</th>
<th>Cat. No.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>For flush door</td>
<td>001.67.710</td>
<td>1 set</td>
</tr>
</tbody>
</table>

**Description**
- ด้านจาก  | 1 ชิ้น |
- แผ่นจากยาว  | 220 มม.  |
- ดอกจาก Ø18 มม.  | 1 ชิ้น |
- ดอกจาก Ø20 มม.  | 1 ชิ้น |
- ดอกจาก Ø24 มม.  | 1 ชิ้น |
- ตัดก้านตรงจาก  | 1 ชิ้น |
- กลุ่มเจาะแห้งเมื่อ (3 มม.)  | 1 ชิ้น |
- กล่องพลาสติกพิเศษ  | 1 ชิ้น |

**New products and systems:** www.hafele.com

หมายเหตุ: เราขอสงวนสิทธิ์ในการเปลี่ยนแปลงผลิตภัณฑ์และข้อมูลที่ให้มาโดยไม่ต้องแจ้งให้ทราบล่วงหน้า.
Wood cutter for mortise jig
ต้องจัดส่งหรือเครื่องจัดตั้งมือจิ้ม

Features
- Enables the cutter to quick release
- With special geometry for increased cutting speed (up to 50%) and longevity of sharpness retention

คุณสมบัติ
- ต้องจัดส่งหรือเครื่องจัดตั้งมือจิ้มสามารถใช้งานได้แม้ใช้แรงจิ้มสูง
- ต้องจัดส่งหรือเครื่องจัดตั้งมือจิ้มมีลักษณะเรียบเนียนในการจัดส่งได้มากถึง 50% และมีอายุการใช้งานที่ยาวนาน

<table>
<thead>
<tr>
<th>Diameter mm</th>
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<tbody>
<tr>
<td>16.2</td>
<td>001.67.842</td>
</tr>
<tr>
<td>17.5</td>
<td>001.67.843</td>
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<tr>
<td>19.0</td>
<td>001.67.844</td>
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<tr>
<td>20.0</td>
<td>001.67.845</td>
</tr>
<tr>
<td>20.6</td>
<td>001.67.846</td>
</tr>
<tr>
<td>22.2</td>
<td>001.67.847</td>
</tr>
<tr>
<td>23.0</td>
<td>001.67.848</td>
</tr>
<tr>
<td>23.8</td>
<td>001.67.849</td>
</tr>
<tr>
<td>25.4</td>
<td>001.67.850</td>
</tr>
<tr>
<td>27.0</td>
<td>001.67.851</td>
</tr>
<tr>
<td>28.6</td>
<td>001.67.852</td>
</tr>
<tr>
<td>31.8</td>
<td>001.67.853</td>
</tr>
</tbody>
</table>

Packing: 1 pc.
บรรจุ 1 ชิ้น

Housing kit for rebated doors
ตัวจับดอกหม้อสำหรับบานประตูไม่มีบันได

Features
- Fits standard shaft, long shaft and long drill adapter

คุณสมบัติ
- สำหรับใช้งานกับแบบบานประตูและแบบบานประตูที่มีบันได

<table>
<thead>
<tr>
<th>Area of application</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>For rebated door</td>
<td>001.67.713</td>
</tr>
</tbody>
</table>

Packing: 1 pc.
บรรจุ 1 ชิ้น

Housing kit for flush door
ตัวจับดอกหม้อสำหรับบานประตูไม่มีบันได

Features
- Fits standard shaft, long shaft and long drill adapter

คุณสมบัติ
- สำหรับใช้งานกับแบบบานประตูและแบบบานประตูที่มีบันได

<table>
<thead>
<tr>
<th>Area of application</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>For flush door</td>
<td>001.67.706</td>
</tr>
</tbody>
</table>

Packing: 1 pc.
บรรจุ 1 ชิ้น

New products and systems: www.hafele.com
ผลิตภัณฑ์และบริการต่าง ๆ: www.hafele.com
Shaft

Features
- Standard shaft: Length 220 mm, replacement shaft for mortise jig
- Long shaft: Length 298 mm
- Material: Steel

<table>
<thead>
<tr>
<th>Version</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard shaft for routing depth up to 100 mm</td>
<td>001.67.742</td>
</tr>
<tr>
<td>Long shaft for routing depth up to 180 mm</td>
<td>001.67.743</td>
</tr>
</tbody>
</table>

Packing: 1 pc.

Depth stop

Features
- For restricting the drilling depth
- For standard and long shafts

<table>
<thead>
<tr>
<th>Material</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel</td>
<td>001.67.747</td>
</tr>
</tbody>
</table>

Packing: 1 pc.
Drilling facility for drilling through holes of main leads and data cables

Unlocking and Security
Mortise Locks

With drilling facility for drilling of cable channels in door leaves for mains leads and data cables.

After cutting the mortise fit the long drill adapter onto the depth stop to allow long bores up to 1,250 mm. The automatic guidance means that the drill bit cannot “over run” the cut area.

Drilling facility for drilling through holes of main leads and data cables

• For securely fixing and clamping of doors or boards
• Span width: 20–44 mm

Material

<table>
<thead>
<tr>
<th>Material</th>
<th>Cat. No.</th>
<th>Packing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plastic</td>
<td>008.07.290</td>
<td>1 pc.</td>
</tr>
</tbody>
</table>

Features

• For electric cables etc.

Material

<table>
<thead>
<tr>
<th>Length mm</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>950</td>
<td>001.67.760</td>
</tr>
<tr>
<td>1,250</td>
<td>001.67.761</td>
</tr>
</tbody>
</table>

Packing: 1 pc.

Order reference

Please order the long drill separately.

Area of application

For fitting onto the depth stop of the mortise jig

<table>
<thead>
<tr>
<th>Area of application</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>For fitting onto the depth stop of the mortise jig</td>
<td>001.67.749</td>
</tr>
</tbody>
</table>

Packing: 1 pc.

Door gripper, adjustable

• For securely fixing and clamping of doors or boards
• Span width: 20–44 mm

Material

<table>
<thead>
<tr>
<th>Material</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plastic</td>
<td>008.07.290</td>
</tr>
</tbody>
</table>

Features

• For electric cables etc.
Emergency exit device EN 179
อุปกรณ์ประตูทางออกฉุกเฉิน EN 179

The standard cover devices have to be used in emergency situations if people are familiar with the emergency exit and whose hardware. In this situation a panic is most unlikely to develop. Lever handle operated escape mortise locks or push pads may used therefore.

Panic exit device EN 1125
อุปกรณ์ประตูทางออกทันใจ EN 1125

The standard cover devices have to be used in panic situations if people are not familiar with the emergency exit and whose hardware but must be able to open the hardware intuitive. An horizontal operated touch bar is here required.
Emergency exit device PE 120

Feature
- For single doors
- For fire resistant and smoke control doors in compliance with DIN 4102
- For fire resistant entrance doors in compliance with EN 1634
- For wooden or steel doors in compliance with DIN 18250

Technical data
- Max. door height: 2,500 mm
- Max. door width: 1,300 mm
- Max. door weight: 200 kg
- Backset: 24 mm
- Forend: 95 mm
- Distance: 72 mm
- Lever follower: 9 mm

Supplied with
1. Lever handle with rose
2. Fixed knob with rose
1. Profile cylinder escutcheons
1. B2326 mortise panic lock
1. Flanged striking plate

Description of function

Inside:
Door opens by activating the lever handle (escape door function) and locks with the key. Panic function only permitted with removed key. No thumbturn cylinder allowed otherwise damages to the lock may occur.

Outside:
Door opens and locks with key

Material/Finish

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Mounting</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel matt</td>
<td>DIN left</td>
<td>911.52.447</td>
</tr>
<tr>
<td></td>
<td>DIN right</td>
<td>911.52.445</td>
</tr>
</tbody>
</table>

Order reference
Please order 1 spindle 9 mm (lever handle-fixed knob) and 4 countersunk screws M5 separately.

We reserve the right to alter specifications without notice (HTH Architectural Hardware 2015).
Emergency exit device PZA 110
อุปกรณ์ประตูฉุกเฉิน PZA 110

**Description of function**

**Inactive leaf, inside:**
Active and inactive leaf can be opened with rotating lever (escape door function with double effect). Shoot bolts lock automatically the inactive leaf when close. The door co-ordinator is integrated in the door closer.

**Active leaf, inside:**
Active leaf can be opened by activating the lever handle (escape door function) and locked with the key. Panic function is only permitted with removed key. No profile cylinder allowed otherwise damages to the lock may occur.

**Outside:**
Door opens and locks with key

**Feature**
- For double doors
- For fire resistant and smoke control doors in compliance with DIN 4102
- For fire resistant entrance doors in compliance with EN 1634
- For wooden or steel doors in compliance with DIN 18250

**Technical data**
- Max. door height: 2,500 mm
- Max. door width: 1,300 mm
- Max. door weight: 200 kg
- Backset: 65 mm, bore: 24 mm
- Distance: 72 mm, lever follower: $9$ mm

**Supplied with**
1. Lever handle with rose
2. Fixed knob with rose
1. Profile cylinder escutcheons
1. Rotating lever with rose
1. Escutcheon without aperture
1. B2329 mortise panic lock and 1 B2390 shoot bolt lock
1. Top shoot bolt, tube with glide plug
1. Bottom shoot bolt, solid
1. Bar guide plate, rounded
1. Easy clean socket

**Material/Finish**

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Mounting</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel matt</td>
<td>DIN left</td>
<td>911.53.447</td>
</tr>
<tr>
<td></td>
<td>DIN right</td>
<td>911.53.445</td>
</tr>
</tbody>
</table>

We reserve the right to alter specifications without notice (HTH Architectural Hardware 2015).
**Panic Exit Device**

**Spindle 9 mm**

- For emergency exit doors in compliance with DIN EN 179/1125
- Steel galvanized and chromatized

- For door thickness mm 37–47
  - Spindle mm 75
  - Cat. No. 909.61.430
- For door thickness mm 47–57
  - Spindle mm 85
  - Cat. No. 909.61.431
- For door thickness mm 57–67
  - Spindle mm 95
  - Cat. No. 909.61.432
- For door thickness mm 67–77
  - Spindle mm 105
  - Cat. No. 909.61.433

**Countersunk screw M5**

- Compliance with ISO 7046
- Steel galvanized and chromatized

- For door thickness mm 57–42
  - Spindle mm 35
  - Cat. No. 909.70.335
- For door thickness mm 42–52
  - Spindle mm 40
  - Cat. No. 909.70.340
- For door thickness mm 52–62
  - Spindle mm 50
  - Cat. No. 909.70.350
- For door thickness mm 62–72
  - Spindle mm 60
  - Cat. No. 909.70.360

---

**Features**

- For emergency exit doors in compliance with DIN EN 179/1125
- Steel galvanized and chromatized

**Specifications**

- **Lever handle - fixed knob, rotating lever - dummy rose,** T = door thickness
- **Spindle 9 mm**
- **Countersunk screw M5**

---

We reserve the right to alter specifications without notice (HTH Architectural Hardware 2015).
Panic exit device PED 200 – horizontal lock

Feature
- For fire resistant door
- Steel touchbar mechanism powder coated black
- Basic module
- Standard EN 1125 in conjunction with approved accessories

Technical data
- Max. door width: 1,300 mm
- Max. door weight: 200 kg
- Lever follower: 8 mm

Cúum saemlit
- สำหรับประตูป้องกันเพลิง
- ชุดก๊อกเปิดฉุกเฉิน หน้ากากสีดำ
- ชุดประกอบพื้นฐาน
- มาตรฐาน EN 1125 ร่วมกับอุปกรณ์ประกอบ
- ที่น่าการอนุมัติเรียกว่าหลักเกณฑ์

ข้อมูลทางเทคนิค
- ความกว้างประตู: 1,300 มม.
- น้ำหนักประตู: 200 กก.
- จุดก๊อกหลัก: 8 มม.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Cat. No.</th>
<th>Steel powder coated</th>
<th>Stainless steel matt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bar</td>
<td>901.02.449</td>
<td>Steel powder coated</td>
<td>Stainless steel matt</td>
</tr>
<tr>
<td>Bar</td>
<td></td>
<td>Steel powder coated</td>
<td>Stainless steel matt</td>
</tr>
</tbody>
</table>

New products and systems: [www.hafele.com](http://www.hafele.com)
Panic exit device PED 210 – horizontal lock

**Feature**
- For fire resistant door
- Steel touchbar mechanism powder coated black
- Basic module with vertical locking action
- Standard EN 1125 in conjunction with approved accessories

**Technical data**
- Max. door height: 2,400 mm
- Max. door width: 1,300 mm
- Max. door weight: 200 kg
- Lever follower: □ 8 mm

**Bar**
- Steel powder coated
- Cat. No. 901.02.459
- Stainless steel matt
- Cat. No. 903.03.016

We reserve the right to alter specifications without notice (HTH Architectural Hardware 2015).
Accessories for panic exit devices PED 200/210 standard EN1125

Lever handle for outer side

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel black</td>
<td>911.52.113</td>
</tr>
</tbody>
</table>

Order reference

Please order single cylinder 27.5/10 mm separately.

Knob for outer side

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel black</td>
<td>911.52.114</td>
</tr>
</tbody>
</table>

Order reference

Please order single cylinder 27.5/10 mm separately.

Dogging device, hold-open kit

<table>
<thead>
<tr>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Retrofitting the &quot;permanent open function&quot; on panic door</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel</td>
<td>909.09.907</td>
</tr>
</tbody>
</table>
Accessories for panic exit devices PED 200/210 standard EN1125
อุปกรณ์เสริมสำหรับ อุปกรณ์ประตูหนี PED 200/210 มาตรฐาน EN1125

Top striking plate
เพลงระดับด้านบน

Feature
• For double doors, frame with rebate up to 11 mm

Feature
• For double doors, frame with rebate 14–24 mm

Material/Finish
วัสดุ/ถัก
Cat. No.
รหัสสินค้า
Steel black
เหล็กดำ
911.52.116

Material/Finish
วัสดุ/ถัก
Cat. No.
รหัสสินค้า
Steel black
เหล็กดำ
911.52.117
Panic exit device PED 100 – mortise lock with cylinder

Feature
- For fire resistant door
- Steel touchbar mechanism powder coated black
- With cylinder aperture
- Standard EN 1125 in conjunction with approved accessories

Technical data
- Max. door width: 1,400 mm
- Max. door weight: 200 kg
- Backset: 65 mm
- Distance: 72 mm
- Lever follower: 9 mm

Quality features
- Suitable for fire resistant doors
- Pushing ball on touchbar mechanism coated
- Powder coated black
- With cylinder aperture
- Standard EN 1125 in conjunction with approved accessories

Technical data
- Max. door width: 1,400 mm
- Max. door weight: 200 kg
- Backset: 65 mm
- Distance: 72 mm
- Lever follower: 9 mm

<table>
<thead>
<tr>
<th>Feature</th>
<th>Cat. No.</th>
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</thead>
<tbody>
<tr>
<td>Steel powder coated</td>
<td>901.02.439</td>
</tr>
<tr>
<td>Stainless steel matt</td>
<td>903.03.010</td>
</tr>
</tbody>
</table>
Panic exit device PED 100 – mortise lock without cylinder

Feature
- For fire resistant door
- Steel touchbar mechanism powder coated black
- Without cylinder aperture
- Standard EN 1125 in conjunction with approved accessories

Technical data
- Max. door width: 1,400 mm
- Max. door weight: 200 kg
- Backset: 65 mm
- Lever follower: 9 mm

Bar

<table>
<thead>
<tr>
<th></th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel powder coated</td>
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</tr>
<tr>
<td>Stainless steel matt</td>
<td>903.03.012</td>
</tr>
</tbody>
</table>

We reserve the right to alter specifications without notice (HTH Architectural Hardware 2015).
Mortise latch lock PED 100, panic function E

dลับกุญแจระบบมอร์ติซ์ล็อคที่มีผู้รับผิดชอบ PED 100

**Feature**
- For active leaf of panic door
- For profile cylinders

**Technical data**
- Backset: 65 mm
- Distance: 72 mm
- Lever follower: 9 mm, split

**Material/Finish**
- Steel galvanized

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel galvanized</td>
<td>911.52.112</td>
</tr>
</tbody>
</table>

Spindle PED 100 for mortise lock

แกนมือจับ สำหรับดลับกุญแจระบบมอร์ติซ์ล็อค PED 100

**Feature**
- Lever follower: 9 mm, split

**Material/Finish**
- Steel galvanized

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel galvanized</td>
<td>909.09.909</td>
</tr>
</tbody>
</table>

Striking Plate PED 100

เลขที่บกพร่อง PED 100

**Feature**
- Suitable for panic lock.

**Material/Finish**
- Steel galvanized

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel galvanized</td>
<td>911.39.287</td>
</tr>
</tbody>
</table>
### Accessories for PED 100 standard EN1125

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel black</td>
<td>911.52.126</td>
</tr>
</tbody>
</table>

**Lever handle for outer side**

Mือจับกันโจรสำหรับเปิดประตูนอก

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel black</td>
<td>911.52.127</td>
</tr>
</tbody>
</table>

**Knob for outer side**

ลูกนิการสำหรับเปิดประตูนอก

Order reference

Please order single cylinder 27.5/10 mm separately.

ข้อมูลเพิ่มเติมในการสั่งซื้อ

กรุณาสั่งซื้อกลุ่มล็อกเป็นสีดำ 27.5/10 มม. แยกต่างหาก

We reserve the right to alter specifications without notice (HTH Architectural Hardware 2015).
Panic exit device StarTec
อุปกรณ์ประตูฉุกเฉิน StarTec

- Area of application: For rebated or flush, single or couple wooden or steel doors
- Suitable for emergency exit door
- Door width: 840–914 mm
- Door thickness: 40–75 mm
- Suitable for DIN left and DIN right hand UL listed for ANSI A 156.3

Function
- Opening of door from inside: By pushing the touchbar
- Opening of door from outside(optional): By activating lever handle and key to lock or unlock

Product components for single doors
อุปกรณ์สำหรับประตูเดี่ยว

Inside:
- 1 Touchbar A

Outside:
- 1 Lever handles with round rosette D

- A ก้านเลื่อนประตู 1 ชิ้น
d้านนอก:
- D ฝาจับก้านเลื่อน พร้อมฉาบเหล็กเกลด 1 ชิ้น

Product components for double doors
อุปกรณ์สำหรับประตูคู่

Inside:
- 1 Touchbar with vertical locking rod B

Outside:
- 1 Lever handle on backplate D

- B ก้านเลื่อนประตู พร้อมเกล็ดชายตั้ง 1 ชิ้น
d้านนอก:
- D ฝาจับก้านเลื่อน พร้อมฉาบเหล็กเกลด 1 ชิ้น

- Action leaf: 1 Touchbar A
- Inactive leaf: 1 Touchbar with vertical locking rod B and 1 striking plate C

- Action leaf: 1 Touchbar with vertical locking rod B each panel

- Action and inactive leaf: Action and inactive leaf: 1 Touchbar with vertical locking rod B each panel

- 1 Lever handle with round rosette D

- 1 Lever handles with round rosette D

- B ก้านเลื่อนประตู พร้อมเกล็ดชายตั้ง 1 ชิ้น
d้านนอก:
- D ฝาจับก้านเลื่อน พร้อมฉาบเหล็กเกลด 1 ชิ้น
A) Touchbar

Supplied with
1 Touchbar
1 Striking plate

Technical data
• Touchbar height to finished floor: 1,043 mm at center

B) Touchbar with vertical locking rod

Material/Finish

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel</td>
<td>911.56.036</td>
</tr>
<tr>
<td>Steel silver</td>
<td>911.56.064</td>
</tr>
</tbody>
</table>

Cat. No. 911.56.036

Material/Finish

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel</td>
<td>911.56.037</td>
</tr>
<tr>
<td>Steel silver</td>
<td>911.56.064</td>
</tr>
</tbody>
</table>

Cat. No. 911.56.064
C) Striking plate

**Feature**
- For double doors using touchbar **A** on active leaf and touchbar with vertical locking rod **B** on inactive leaf

**Material/Finish**

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel</td>
<td>911.56.024</td>
</tr>
</tbody>
</table>

D) Lever handle with round rosette

**Version**

<table>
<thead>
<tr>
<th>Version</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level handle with round rosette for door thickness 40–55 mm</td>
<td>911.56.038</td>
</tr>
<tr>
<td>Adapter for door thickness 65–70 mm</td>
<td>911.56.019</td>
</tr>
</tbody>
</table>

New products and systems: www.hafele.com

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We reserve the right to alter specifications without notice.
Knob lockset light duty StarTec
ลูกบิดประตู ไลท์ดยี StarTec

Features
• For flush timber or steel doors
• Suitable for door leaf thickness (b): 35–48 mm
• Cylinder with 5 pin tumblers
• Rosette diameter 75 mm

Technical data
• Backset (a): 60 mm

Supplied with
1 Knob lockset
1 Latch
1 Striking plate
3 Keys (For Entrance version only)
1 Set of fixing material

Installation in steel doors
การติดตั้งในประตูเหล็ก

Technical data
• Backset (a): 60 mm

Supplied with
1 Knob lockset
1 Latch
1 Striking plate
3 Keys (For Entrance version only)
1 Set of fixing material

Installation in steel doors
การติดตั้งในประตูเหล็ก

Features
• For flush timber or steel doors
• Suitable for door leaf thickness (b): 35–48 mm
• Cylinder with 5 pin tumblers
• Rosette diameter 75 mm

Technical data
• Backset (a): 60 mm

Supplied with
1 Knob lockset
1 Latch
1 Striking plate
3 Keys (For Entrance version only)
1 Set of fixing material

Installation in steel doors
การติดตั้งในประตูเหล็ก

Features
• For flush timber or steel doors
• Suitable for door leaf thickness (b): 35–48 mm
• Cylinder with 5 pin tumblers
• Rosette diameter 75 mm

Technical data
• Backset (a): 60 mm

Supplied with
1 Knob lockset
1 Latch
1 Striking plate
3 Keys (For Entrance version only)
1 Set of fixing material

Installation in steel doors
การติดตั้งในประตูเหล็ก

b = Door leaf thickness
b = ความหนาของประตู
a = Backset, 60 mm
a = ระยะจากระบบประตู (60 มม.)

这是我们根据规定的一些与原文件相同的特征。
### Locking and Security

#### Knob Locksets

For **entrance doors**

- **Material/Finish**
  - Stainless steel matt (304)
  - Brass polished
  - Antique copper
  - Antique brass

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel matt (304)</td>
<td>911.64.680</td>
</tr>
<tr>
<td>Brass polished</td>
<td>911.64.681</td>
</tr>
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<td>Antique copper</td>
<td>911.64.682</td>
</tr>
<tr>
<td>Antique brass</td>
<td>911.64.683</td>
</tr>
</tbody>
</table>

Packing: 1 set

For **bathroom/wc doors**

- **Material/Finish**
  - Stainless steel matt (304)
  - Brass polished
  - Antique copper
  - Antique brass

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel matt (304)</td>
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<tr>
<td>Brass polished</td>
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<td>911.64.686</td>
</tr>
<tr>
<td>Antique brass</td>
<td>911.64.687</td>
</tr>
</tbody>
</table>

Packing: 1 set

For **passage doors**

- **Material/Finish**
  - Stainless steel matt (304)
  - Brass polished
  - Antique copper
  - Antique brass

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel matt (304)</td>
<td>911.64.688</td>
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</tr>
<tr>
<td>Antique brass</td>
<td>911.64.691</td>
</tr>
</tbody>
</table>

Packing: 1 set

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**New products and systems:** [www.hafele.com](http://www.hafele.com)

[脚注]: 保留权利，未经许可，不得复制和分发。
Knob lockset standard duty StarTec
ลูกนิ้วประตู แสนคาร์ดวิท StarTec

**Features**
- For flush timber or steel doors
- Suitable for door leaf thicknesses (b): 35–45 mm
- Safety bolt prevents the latch to be pushed back, e.g. by a credit card

**Technical data**
- Backset (a): 60 mm

**Cylinder**
- For standard locking with 6 pin tumblers
- For master keying with 5 pin tumblers

**Supplied with**
1 Knob lockset
1 Latch
1 Striking plate
1 Assembly key
1 Set of fixing material
1 Set of installation instruction

**Installation in steel doors**
- b = Door leaf thickness
- a = Backset, 60 mm
- Ω = Distance between grip

**Features**
- For flush timber or steel doors
- Suitable for door leaf thicknesses (b): 35–45 mm
- Safety bolt prevents the latch to be pushed back, e.g. by a credit card
### Locking and Security

#### Knob Locksets

**Knob set for closet, pivot, sliding double action doors**

**Features**
- Outside: Rigid knob
- Knob for opening hinged, sliding or swing doors

**Materials/Finishes**

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel (304)</td>
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<tr>
<td>Antique brass</td>
<td>911.64.253</td>
</tr>
</tbody>
</table>

**Function according to ANSI F75**

Opening from inside by turning the knob. When the knob is locked, it can be only operated with the key.

**Packing:** 1 set

**Knob locksets for single passage**

**Features**
- Outside: Blind rose
- Inside: Turn knob
- With deadlock latch

**Materials/Finishes**

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel (304)</td>
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<td>Antique copper</td>
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</tr>
<tr>
<td>Antique brass</td>
<td>911.64.327</td>
</tr>
</tbody>
</table>

**Packing:** 1 set

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New products and systems: [www.hafele.com](http://www.hafele.com)

ผลิตภัณฑ์และวัสดุครบกิจ: [www.hafele.com](http://www.hafele.com)
Knob locksets for single communication

Features
- Master key on request available
- Outside: Blind rose
- Inside: Turn knob with cylinder
- With deadlock latch

Knob lockset for passage and closet doors

Features
- Outside: Turn knob
- Inside: Turn knob

Material/Finish
<table>
<thead>
<tr>
<th>Finishes</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel</td>
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</table>

Packing: 1 set

Material/Finish
<table>
<thead>
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<th>Cat. No.</th>
</tr>
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<tbody>
<tr>
<td>Stainless steel</td>
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<tr>
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<td>Antique copper</td>
<td>911.64.336</td>
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<tr>
<td>Antique brass</td>
<td>911.64.337</td>
</tr>
</tbody>
</table>

Packing: 1 set

We reserve the right to alter specifications without notice.
Knob lockset for bathroom/WC doors, bedroom and private room doors

Features
- Outside: Turn knob with emergency opening possibility
- Inside: Turn knob with pushbutton

Material/Finish
<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel (304)</td>
<td>911.64.258</td>
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<tr>
<td>Stainless steel (316)</td>
<td>911.64.407</td>
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<td>911.64.260</td>
</tr>
<tr>
<td>Antique brass</td>
<td>911.64.261</td>
</tr>
</tbody>
</table>

Function according to ANSI F76
Locking from inside with push button. Opening from outside with turn knob.
Emergency case: Knob can be locked by using coin or screw driver from outside.

Knob lockset for patio and private room doors

Features
- Outside: Turn knob
- Inside: Turn knob with push button
- With deadlock latch

Material/Finish
<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel (304)</td>
<td>911.64.258</td>
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<tr>
<td>Stainless steel (316)</td>
<td>911.64.407</td>
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<td>911.64.260</td>
</tr>
<tr>
<td>Antique brass</td>
<td>911.64.261</td>
</tr>
</tbody>
</table>

Function according to ANSI F77
Locking from inside with push button. Opening from outside with turn knob.

New products and systems: www.hafele.com
Häfele Architectural Hardware 2015.
Knob lockset for entrance and office doors

Knob lockset for entrance and office doors

Features
• Master key on request available
• Outside: Turn knob with cylinder
• Inside: Turn knob with push button, fixing device

Function according to ANSI F81, F82
Door can be locked by pushing the button from inside. Door can be unlocked by using the key from outside. Door can be opened by using the key outside and turning the knob from inside.

Function according to ANSI F86
Latch bolt can be retracted by knob inside only. Outside knob rigid. Key outside can be retracted by latch bolt.

Material/Finish

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
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</thead>
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<tr>
<td>Stainless steel (304)</td>
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<td>Antique brass</td>
<td>911.64.269</td>
</tr>
</tbody>
</table>

Packing: 1 set

Knob lockset for storeroom and closet doors

Knob lockset for storeroom and closet doors

Features
• Master key on request available
• Outside: Rigid knob with cylinder
• Inside: Turn knob
• With deadlock latch

Function according to ANSI F86
Latch bolt can be retracted by knob inside only. Outside knob rigid. Key outside can be retracted by latch bolt.

Material/Finish

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
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</thead>
<tbody>
<tr>
<td>Stainless steel (304)</td>
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<td>Stainless steel (316)</td>
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<tr>
<td>Antique brass</td>
<td>911.64.273</td>
</tr>
</tbody>
</table>

Packing: 1 set

New products and systems: www.hafele.com

We reserve the right to alter specifications without notice. Specifications are subject to change at any time without prior notification.
Latch for 70 mm backset StarTec
ล็อคคิ้วขนาด 70 มม. StarTec

**Features**
- Suitable for knob locksets, standard duty
- Optional with or without security pin

**Technical data**
- Backset: 70 mm

**คุณสมบัติ**
- เหมาะสมสำหรับลูกบิดสำหรับรับมือหน้าปะเกด
- ลูกบิดเสริมใส่ได้ระบายเมฆไม่มีก้านแขน

**รายละเอียดเทคนิค**
- ระยะหลังลูกบิด: 70 มม.

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>With security pin แบบมีก้านแขน</th>
<th>Without security pin แบบไม่มีก้านแขน</th>
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</thead>
<tbody>
<tr>
<td>Stainless steel (304)</td>
<td>911.64.298</td>
<td>911.64.302</td>
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<tr>
<td>Brass polished ทองเหลืองเงา</td>
<td>911.64.299</td>
<td>911.64.303</td>
</tr>
<tr>
<td>Antique copper ทองแดงเกษว ทองแดงเก่า</td>
<td>911.64.300</td>
<td>911.64.304</td>
</tr>
<tr>
<td>Antique brass ทองแดงเข้ม</td>
<td>911.64.301</td>
<td>911.64.305</td>
</tr>
</tbody>
</table>

**Packing:** 1 pc.
บรรจุ: 1 ชิ้น
**Single deadbolt light duty**

**Features**
- For flush timber or steel doors
- Suitable for DIN left and right hand
- Suitable for door leaf thicknesses: 28–45 mm
- Outside: Cylinder with 5 pin tumblers
- Inside: Thumbturn
- Deadbolt 1-turn

**Technical data**
- Backset, adjustable (a): 60/70 mm

**Supplied with**
1. Locking case with bolt part
2. Striking plate
3. Keys brass nickel plated
4. Set of fixing material
5. Set of installation instructions

**Material/Finish**

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
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</tr>
<tr>
<td>Antique brass</td>
<td>911.22.398</td>
</tr>
</tbody>
</table>

**Packing:** 1 pc.

We reserve the right to alter specifications without notice (HTH Architectural Hardware 2015).
Economy double deadbolt light duty

gūnān lēm tin nā 2 ān łoē stājāū

Features
• For flush timber or steel doors
• Suitable for DIN left and right hand
• Suitable for door leaf thicknesses: 28–45 mm
• Outside: Cylinder with 5 pin tumblers
• Deadbolt 1-turn

Technical data
• Backset, adjustable (a): 60/70 mm

Supplied with
1 Locking case with bolt part
1 Striking plate
3 Keys brass nickel plated
1 Set of fixing material
1 Set of installation instructions

Specifications
• Suitable for flush timber or steel doors
• Suitable for DIN left and right hand
• Suitable for door leaf thicknesses: 28–45 mm
• Outside: Cylinder with 5 pin tumblers
• Deadbolt 1-turn

Technical data
• Backset, adjustable (a): 60/70 mm

Supplied with
1 Locking case with bolt part
1 Striking plate
3 Keys brass nickel plated
1 Set of fixing material
1 Set of installation instructions

Material/Finish

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
<th></th>
</tr>
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<tbody>
<tr>
<td>Stainless steel (304)</td>
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<td>Brass polished</td>
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<td>Antique brass</td>
<td>911.64.230</td>
<td></td>
</tr>
</tbody>
</table>

Packing: 1 pc.
Deadbolt standard duty StarTec

Features
• Master key on request available
• For flush timber or steel doors
• Suitable for DIN left and right hand
• Suitable for door leaf thicknesses: 28–45 mm
• Outside: Cylinder with 6 pin tumblers
• Inside: Thumbturn

Technical data
• Backset (a): 60 mm

Supplied with
1 Locking case with bolt part
1 Striking plate
3 Keys brass nickel plated
1 Set of fixing material
1 Set of installation instructions

Material/Finish

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel (304)</td>
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<tr>
<td>Antique brass</td>
<td>911.64.277</td>
</tr>
</tbody>
</table>

Packing: 1 pc.

We reserve the right to alter specifications without notice. (HTH Architectural Hardware 2015)
**Double deadbolt StarTec**

**Features**
- Master key on request available
- For flush timber or steel doors
- Suitable for DIN left and right hand
- Suitable for door leaf thicknesses: 28–45 mm
- Outside and inside: Cylinder with 6 pin cylinder

**Technical data**
- Backset (a): 60 mm

**Supplied with**
- 1 Locking case with bolt part
- 1 Strike plate
- 3 Keys brass nickel plated
- 1 Set of fixing material
- 1 Set of installation instructions

**Material/Finish**

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>911.64.278</td>
<td>Stainless steel (304)</td>
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<tr>
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<tr>
<td>911.64.281</td>
<td>Antique brass</td>
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</tbody>
</table>

**Packing:** 1 pc.

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New products and systems: www.hafele.com

 meltblown and nanotechnology: www.hafele.com
Locking and Security Information

Profile cylinder  ข้อมูลบริเวณ:  ใส่กลุ่มและระบบที่มี

Looking cylinders are categorized according to
การแบ่งประเภทได้ดังนี้

a) Front view  มองจากด้านหน้า
Profile cylinder  ใส่กลุ่มและระบบที่มี

b) Side view  มองจากด้านข้าง
Double cylinder  ใส่กลุ่ม 2 ทาง
 Single cylinder  ใส่กลุ่มทางเดียว
Thumbturn cylinder  ใส่กลุ่มทางผลัก

The definition of important components and characteristics of locking cylinders in this catalogue follows generally the terminology according to EN 1303 with 18 252/09-1999

คำศัพท์ของกลุ่มคylinder และลักษณะการใช้งานของกลุ่มคylinder ที่ระบุในแต่ละตัวอย่างนี้ ถือเป็นมาตรฐานตาม EN 1303 18 252/09-1999

Door leaf thickness  ความหนาบางของผนัง

The following factors have to be considered, when determining the length C of the locking cylinder:

• Door thickness
• Position of the lock in the door
• Thickness of the fitting outside
• Thickness of the fitting inside

จำเป็นต้องพิจารณาพื้นที่ข้าง ๆ เมื่อจะประมาณความยาวของระยะ C

Door leaf thickness  ความหนาบางของผนัง

Note

Lengths A and B are each measured from the centre of the fixing screw.
For the length C: The cylinder must protrude the fitting on the outside and inside max. 3 mm

หมายเหตุ

ความยาวของ A และ B จะวัดจากก้านที่ใส่กลุ่มคylinder ได้กลุ่มคylinder สำหรับระยะ C ให้กลุ่มคylinder จะต้องออกจากผนังไม่เกินกว่า 3 มม.

Profile cylinder  ใส่กลุ่มและระบบที่มี

Profile cylinder  ใส่กลุ่มและระบบที่มี

Häfele Cylinder  ใส่กลุ่มและระบบที่มี

Häfele cylinders have following characteristics:

• Within the profile cylinders, which are variably in steps, pairs of pins trace the key profile.
• Maximum number of key changes results from the number of pairs of pins and the possible versions of steps.
• All cylinders comply with and in major characteristics exceed the requirements of EN 1303 and DIN 18 252: 09/1999

ใส่กลุ่มคylinder ที่มีคylinder ประมวลผลดังต่อไปนี้

• ในกลุ่มคylinder ซึ่งมีความยาวข้างๆ มีซีลที่เชื่อมต่อกันเป็นขั้นตอน
• จำนวนการเปลี่ยนคylinder ขึ้นอยู่กับจำนวนซีลและรูปแบบของขั้นตอน
• ทั้งหมดคylinder ที่มีความถี่สูงกว่าเกณฑ์ศูนย์ของ EN 1303 และ DIN 18 252: 09/1999
Economy double profile cylinder StarTec

Features
- Master key on request available
- With 5 pin tumblers

Supplied with
1 Double profile cylinder
3 Keys
1 Fastening screw

Specifications
- Master key on request available
- With 5 pin tumblers

Supplied with
1 Double profile cylinder
3 Keys
1 Fastening screw

Features
- Master key on request available
- With 5 pin tumblers

Supplied with
1 Single profile cylinder
3 Keys
1 Fastening screw

Specifications
- Master key on request available
- With 5 pin tumblers

Supplied with
1 Single profile cylinder
3 Keys
1 Fastening screw

New products and systems: www.hafele.com

We reserve the right to alter specifications without notice (HTH Architectural Hardware 2015).
Economy double profile cylinder with thumbturn StarTec

Features
• Master key on request available
• With 5 pin tumblers
• One side lock function
• One side thumbturn

Supplied with
1 Double profile cylinder
3 Keys
1 Fastening screw

Components
• Available on request
• With 5 pin tumblers
• One side lock function
• One side thumbturn

Supplied with
1 Double profile cylinder
3 Keys
1 Fastening screw

Economy single profile with thumbturn StarTec

Features
• With thumbturn

Supplied with
1 Single profile cylinder with thumbturn
1 Fastening screw

Components
• Available on request
• With thumbturn

Supplied with
1 Single profile cylinder with thumbturn
1 Fastening screw

<table>
<thead>
<tr>
<th>Length A mm</th>
<th>Length B mm</th>
<th>Length C mm</th>
<th>Brass nickel plated</th>
<th>Brass polished</th>
<th>Antique brass</th>
<th>Brass copper</th>
</tr>
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Economy double profile cylinder with emergency slot StarTec

Features
- One side emergency slot
- One side thumbturn
- Suitable for toilet doors

Supplied with
1 Double profile cylinder with emergency slot
1 Fastening screw

Supplied with
1 Double profile cylinder with emergency slot
1 Fastening screw

Specifications:

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Double profile cylinder StarTec

Features
- Master key on request available
- With 5 pin tumblers

Supplied with
1 Double profile cylinder
3 Keys brass nickel plated
1 Fastening screw

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Locking and Security
Profile Cylinder

New products and systems: www.hafele.com
Double profile cylinder with thumbturn StarTec

Supplied with
1 Double profile cylinder with thumbturn
3 Keys brass nickel plated
1 Fastening screw

Features
- Master key on request available
- With 5 pin tumblers
- One side locking function
- One side thumbturn

Single profile cylinder with thumbturn StarTec

Supplied with
1 Single profile cylinder with thumbturn
1 Fastening screw

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<tr>
<th>Length A mm</th>
<th>Length B mm</th>
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Length A mm  | Length B mm  | Length C mm  | Brass nickel plated, thumbturn aluminium | Brass nickel plated, thumbturn stainless steel | Brass polished | Antique brass |
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New products and systems: www.hafele.com

 HLS THD KTH PTH HPS HDT HPT HEP HDP HEPH HEPH HEPH HEPH HEPH HEPH 13.03.2015

AH 2.85
Double profile cylinder with emergency slot StarTec
ให้กุญแจ 2 ทาง พร้อมมุมเปิดลูกเติ๋ม StarTec

Features
• One side emergency slot
• One side thumbturn
• Suitable for toilet doors

Supplied with
1 Double profile cylinder with emergency slot
1 Fastening screw

คุณสมบัติ
• ด้านเหมือนเปิดลูกเติ๋ม
• ลักษณะมีทางเลือก
• สามารถใช้กับประตูห้องน้ำ

ประกอบด้วย
ให้กุญแจ 2 ทาง พร้อมทางเลือก
1 ชิ้น
อุปกรณ์ติดตั้ง
1 ชิ้น

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Single profile cylinder StarTec
ให้กุญแจทางเดียว StarTec

Features
• Master key on request available
• With 5 pin tumblers
• Follower adjustable in 8 positions

Supplied with
1 Single profile cylinder
3 Keys brass nickel plated
1 Fastening screw

คุณสมบัติ
• สามารถจัดทำระบบเอกสารที่ใช้และเอกสารเอกสารที่ใช้
• ระบบที่ 5 ที่
• ปรับได้ 4 จุด

ประกอบด้วย
ให้กุญแจทางเดียว
1 ชิ้น
อุปกรณ์ที่ใช้
3 ชิ้น
อุปกรณ์ติดตั้ง
1 ชิ้น

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Blind single profile cylinder StarTec

Features
- Blank on one side

Dimensions

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Blind double profile cylinder StarTec

Features
- Blank on both sides

Dimensions

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Moon shape knob

Features
- For profile cylinder

Materials/Finish
- Stainless steel
- Brass polished
- Antique brass
Construction site key StarTec

Features
- Square pin key 6/7/8 mm
- Allen key 3 mm
- Conical square spindle from 6–10 mm
- Follower for locks with PC-aperture
- With scale (35–70 mm) to measure the cylinder length
- Bottle opener

คุณสมบัติ
- ดอกไขว้ตรงเหลี่ยม ขนาด 6/7/8 มม.
- ดอกไขว้หกเหลี่ยม ขนาด 3 มม.
- ดอกไขว้ทรงวงรี ขนาด 6–10 มม.
- ดอกไขว้หลุมปล่อย (Mortise Lock PC)
- ฟรังบูดวงรี 2 ข้าง ตั้งแต่ 22-75 มม. และ 25-75 มม.
- เพื่อรักษาหลุมปล่อย
- หัวบOTT瓶

Material/Finish

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Material/Finish

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Locking and Security
Profile Cylinder

Key cabinet StarTec
ดูเก็บดอกกุญแจ StarTec

Features
• Cylinder lock with 2 keys
• Single-walled door
• Hook rails adjustable at intervals, different colours and numbered consecutively

Material/Finish
• Steel light grey lacquered RAL 7035

Colour/Finish
• Light blue
• Light green
• Dark green

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Key tag StarTec
น้ำตกดอกกุญแจ StarTec

Features
• Tag with white card for inscription 55 x 22 mm

Material/Finish
• Steel key hook nickel plated, plastic key tag

Colour
• White
• Yellow
• Grey
• Red
• Brown
• Blue
• Light blue
• Light green
• Dark green
• Black

Packing: 1 or 100 pcs.

New products and systems: www.hafele.com

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Key cabinet StarTec
ดูเก็บดอกกุญแจ StarTec

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Key tag StarTec
น้ำตกดอกกุญแจ StarTec

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• Blue
• Light blue
• Light green
• Dark green
• Black

Packing: 1 or 100 pcs.

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Master key system
ระบบแมสเดอร์คีย์

Comprehensive building situation requires locking systems. The scope and the complexity of these systems is depend on the size of the building, the number of doors and the user function of that building.

Master key is a key which can open two or more than two locks within the given structure or the system. A master key comprises a number of cylinders/locks that allow different group of individual key holders to gain access to all or individually defined areas. This can eliminate the need to carry all those keys with you, limiting the areas where other people have access.

Whether you need to control a domestic building such as your home or a large scale commercial or industrial complex, having total control of access to all entry points through a Master key.

Our Master key systems SD and PSM are produced in Germany and just the assembling and key cutting are done in Thailand. With this service Häfele Thailand is able to offer their customers the master key systems in German quality and with in short delivery times.

However the Häfele service not only comprises the delivery. Häfele offers different experts of hardware technology, master key system and of any further questions relating to individual cylinders. The service reaches from initial assistance in the planning phase to the creation of appropriate Master key plans.

Master key is the key to the needs of the building and the system as well as to the complexity of the building. The scope and the complexity of the system depend on the size of the building, the number of doors and the user function of that building.

A master key is a key that can open two or more than two locks within the given structure or the system. A master key consists of a number of cylinders/locks that allow different groups of individual key holders to gain access to all or individually defined areas. This can eliminate the need to carry all those keys with you, limiting the areas where other people have access.

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Different functions of keying
ระบบการทำงานต่าง ๆ ของกุญแจ

Master key system
ระบบMASTER key

One key which can open two or more than two locks in the same structure e.g. for a property with 4 storage rooms.

- **MK** Master key - มาสเตอร์กุญแจ
- **L** Storage room - ห้องเก็บของ
- **(1–4)** Individual keys of storage room - ต่อกุญแจต่างห้องเก็บของ

Central locking system
ระบบlockingระบบ

Each of the individual keys can open it’s own door and the common lock (CL). The common lock is usually set as passing or entrance door.

- **W** Apartment door - ประตูพื้นบ้าน
- **T** Plant room - ห้องพื้นบ้าน
- **H** Front door - ประตูทางเข้า
- **CL** Central key which locks the CL central cylinder
- **MK** Master key - มาสเตอร์กุญแจ
- **(1–4)** Individual keys of apartment doors ต่อกุญแจต่างพื้นบ้าน
- **(5–6)** Individual keys for plant room - ต่อกุญแจต่างห้องพื้นบ้าน
Different functions of keying

Grand master key system

One key which is superior than the master key and can open the all remaining door in that structure.

In the 1st phase the building is under construction, therefore the contractor and/or builders are authorised to access all building doors with their construction keys (CK).

In the 2nd phase, once the building is completed and the owner will stay, he will use his own key (MK or 1–4), the construction key (CK) isn’t usable anymore.

Construction key system

In the 1st phase the building is under construction, therefore the contractor and/or builders are authorised to access all building doors with their construction keys (CK).

In the 2nd phase, once the building is completed and the owner will stay, he will use his own key (MK or 1–4), the construction key (CK) isn’t usable anymore.
Master key terminologies

**KD = Keyed to differ**
Each lock is opened by its own key
KD = ดอกกฎหมายจะเปิดไม่ร่าง
แต่ละดอกกฎหมายจะแตกกันได้โดยตลอดประจําตัวของตัวเอง

**MK = Master key**
All locks are opened by their own individual key and the master key
MK = ดอกกฎหมายที่
จะใช้กุญแจสามารถเปิดโดยตลอดประจําตัวของตัวเอง และดอกกฎหมายนี้

**KA = Keyed alike**
All locks opened by the same individual key
KA = ดอกกฎหมายจะเปิด
ทุกใช้กุญแจสามารถเปิดได้โดยตลอดประจําตัวเดียวกัน

**GMK = Grand master key**
All locks opened by their own individual key, respective submaster key, respective master key and grand master key
GMK = ดอกแกนกฎหมายที่นี้
ทุกใช้กุญแจจะเปิดโดยตลอดประจําตัว ดอกกฎหมายนี้จะเปิดได้โดยตลอด ดอกกฎหมายนี้และ ดอกแกนกฎหมายนี้

**CL = Common lock**
Each individual key is opened its own lock
and the common lock
CL = ระบบล็อคลํานานกัน
แต่ละดอกลําปางสามารถเปิดประตูของตัวเอง
และประตูที่เป็นส่วนกลางได้ด้วย

**CK = Construction key**
All locks can open with construction key but once the owner key(GMK/MK/KD) used with that locks, the construction key can not be used anymore
CK = ระบบลํานานกันชิ้นเดียว
ทุกใช้กุญแจสามารถเปิดได้โดยตลอดระบบลํานานกันชิ้นเดียว แต่เมื่อไร
แต่เมื่อผู้ถือกุญแจเจริญลํานานกัน(GMK/MK/KD) มาใช้กุญแจนี้
ดอกกฎหมายลํานานกันชิ้นเดียวจะไม่สามารถใช้ได้อีกต่อไป

**Building construction**
อาคารอยู่ระหว่างการก่อสร้าง

**Building completion**
อาคารเสร็จสมบูรณ์

New products and systems: www.hafele.com

ผลิตภัณฑ์และวัตถุดิบใหม่: www.hafele.com
Master key systems from Häfele Thailand
ระบบมาสคอร์คิ้วของเซฟเล ประเทศไทย

EM System
For simple and small master key systems in residential projects:
- Each locking side contains 5 pin tumblers
- Key brass plated

EM System
ไม่ใช่สำหรับระบบมาสคอร์คิ้วที่มีขั้นตอนเพิ่มสำหรับติดตั้ง
ในบริเวณที่มากับชั่วโมง:
- ระบบ 5 พิน
- ลูกปืนเจาะรูจากลองหลัง

Available products for EM system
ผู้ผลิตอุปกรณ์ภายใต้ระบบ EM
Profile cylinder
ลูกปืน
Knob lock set
ลูกบิด
Deadbolt
ลูกแจมนิ้ว

SD System
For simple and small master key systems in residential projects:
- Each locking side contains 5 pin tumblers
- First core pin made of hardened steel
- Anti picking device complying with DIN 18 252, developed in a special form with 2 mushroom housing pins
- Very close process tolerances for safe function
- Wear resisting key steel plated

SD System
ไม่ใช่สำหรับระบบมาสคอร์คิ้วที่มีขั้นตอนเพิ่มสำหรับติดตั้ง
ในบริเวณที่มากับชั่วโมง:
- ระบบ 5 พิน
- ลูกปืนมีลิ้นเจาะรูจากหลังซุ้มอากาศ
- พร้อมลิ้นเจาะรูในรูปแบบเดียวยุ่นระดับตามมาตรฐาน DIN 18 252 สำหรับรับปรับ
- ตัวควบคุมตลาดคิ้วมีนักงานทำได้ไม่มีความปลอดภัยสูง
- ลูกจับหลักคิ้วแท้

Available products for SD system
ผู้ผลิตอุปกรณ์ภายใต้ระบบ SD
Profile cylinder
ลูกปืน
Knob lock set
ลูกบิด
Deadbolt
ลูกแจมนิ้ว
Padlock
ลูกแจง(uname)

PSM System
Is rich in variation with a multitude of different possible key ways.
For complex and large key systems in commercial projects:
- Each locking side contains 5 pin tumblers of wear and tear resistant copper/nickel/zinc alloy
- First core pin made of hardened steel
- Anti picking device complying with DIN 18 252, developed in a special form with 2 mushroom housing pins
- Sturdy, wear resisting keys made of nickel silver coloured
- Guide groove runs over the entire cylinder core, ensures complete power transfer of key turns and prevents key breaking
- The keys are restricted and only available by Häfele Thailand
- Supplied with security card for absolute key controlling

PSM System
ไม่ใช่สำหรับระบบมาสคอร์คิ้วที่ต้องการระบบล็อกที่ข้นขึ้น
- ระบบ 5 พิน
- ลูกปืนมีลิ้นเจาะรูจากหลังซุ้มอากาศ
- พร้อมลิ้นเจาะรูในรูปแบบเดียวยุ่นระดับตามมาตรฐาน DIN 18 252 สำหรับรับปรับ
- ลูกปืนเจาะรูในรูปแบบเดียวยุ่นระดับ
- พร้อมลิ้นเจาะรูสำหรับการล็อกทาง
- ต้องมีความเสถียรสม่ำเสมอภายในงานลูกค้าต้องให้ลูกจ้าง
- เพื่อให้การเปิด-ปิด เป็นไปได้โดยความสบายและจิตใจ
- ลูกจ้างจำเป็นจะต้องมีที่ยึดเพื่อ ประเทศไทย เท่านั้น
- พร้อมการตัดล็อกยึดให้ความปลอดภัยสูง

Available products for PSM system
ผู้ผลิตอุปกรณ์ภายใต้ระบบ PSM
Profile cylinder
ลูกปืน
Knob lock set
ลูกบิด
Deadbolt
ลูกแจมนิ้ว
Padlock
ลูกแจง(uname)
Master key system from Häfele Germany

WP system

Cylinders of the WP system have following characteristics:

- Optimum locking function due to the use of high-quality materials and high-precision manufacturing procedures
- Hard metal inserts on the cylinders sides provide reliable anti-pick protection where security is required
- Every cylinder is unique and has an individual registration number. The security pass must be provided when ordering replacement keys or additional keys from authorised specialist dealers
- Certified in compliance with DIN 18252 and EN 1303:2005

Security card

Unauthorized ordering of replacement cylinders or keys of PSM system is prevented by a security card and signature. The security card contains the project name, master key number and date of purchase. For every additional order use the security card only.

Receive for master key system security card

HÄFELE Thailand provides for its high security PSM master key system special service. Unauthorized ordering of replacement cylinders, extensions or keys from the PSM system is prevented by a security card and signature.

The security card contains the master key system number, the name of the owner or project and the date of ordering the system.

For orders, the customer has to show the original security card to the sales and supply a photo copy of the security card. The photo copy must be signed with the signature of the owner or one of his authorized persons. This can be up to two additional persons.

1. Person
   Name: __________________________ Signature: __________________________

2. Person
   Name: __________________________ Signature: __________________________

3. Person
   Name: __________________________ Signature: __________________________

I confirm that I have received the security card and the people above are authorized to order spare parts for master key systems of the system number "IHT".

Name Customer: __________________________ Signature: __________________________

Name Ref., Sales: __________________________ Signature: __________________________
Häfele will help you to plan your locking system
ให้เราช่วยคุณวางแผนการออกแบบระบบล็อค

Please collect all important information for your locking system by using the following overview:
กรุณาเตรียมข้อมูลสำคัญทุกอย่างสำหรับการออกแบบระบบล็อคของคุณดังนี้

Size of the system
ขนาดของโครงสร้าง

Number of doors?
It is advisable to draw up a list of doors by noting all doors of the building. Make a note of all special, such as emergency exit doors, multiple locking devices etc. You can also use the list to note the cylinder length of each door. This makes a subsequent ordering easier.
จำนวนประตู?
ควรทำรายการถึงจำนวนประตูในอาคารทั้งหมด และบันทึกไว้ทุกอย่างที่เป็นพิเศษ เช่น ประตูทางออกฉุกเฉิน ตัวล็อคหลายๆชิ้น ช่วยให้การสั่งซื้อลำดับถัดไปง่ายขึ้น

Layout of system
รูปแบบของโครงสร้าง

How are the doors structured?
Determine the user groups of the building together with your customer. Use this information to draw up a hierarchy that shows which user group should be get an access to which door.
การ结构ของประตู
กำหนดกลุ่มผู้ใช้แต่ละกลุ่มในอาคารด้วยคู่รวมกัน ใช้ข้อมูลนี้เพื่อสร้างต้นตระกูลที่บ่งบอกว่ากลุ่มผู้ใช้แต่ละกลุ่มควรได้รับการเข้าถึงได้ในทางใด

Requirement of the function
ความต้องการของระบบการทำงาน

What type of keying function should be used GMK, MK?
Determine the keying function together with customer. Define the level and the authorization of all key levels on a chart.
การเปิดใช้งาน
กำหนดการใช้งานกุญแจตามระดับที่เป็นไปได้ตามขั้นตอนที่กำหนดให้ในแผนที่

Selection of master key system
การเลือกระบบดัชนีกุญแจ

What type of master key system EM, SD or PSM?
Now you can make a decision about the quality and security of the master key system according to your pre-defined points and which system would be most suitable for your structure.
การเลือกระบบดัชนีกุญแจ
ตัดสินใจว่าระบบดัชนีกุญแจแบบใดเหมาะสมกับโครงสร้างของคุณ

Order reference
After clarifying all this points you should contact our Häfele sales department to check your locking plan and proceed your order.
ขอแนะนำในการสั่งซื้อ
หลังจากการตรวจสอบเรียบร้อยเรียบร้อยแล้ว ติดต่อฝ่ายขายของเราเพื่อขอรับการช่วยเหลือในการสั่งซื้อ
How to read Master key article number
วิธีการอ่านรหัสสินค้าเคัฟิลล์

Generally Häfele Master key article numbers consist of 10 digits which can easily separated into two parts as shown as following:
โดยทั่วไปเลขเดือนแสดงแยกได้เป็นสองส่วนตามลำดับดังนี้:

- First 8 digits are details of the product, e.g. profile cylinder or knob lockset etc.
- Last 2 digits are specification of the Master key system, e.g. EM, SD or PSM

• First 8 digits are details of the product, e.g. profile cylinder or knob lockset etc.
• Last 2 digits are specification of the Master key system, e.g. EM, SD or PSM

916.08.67221

Details of the product
รายละเอียดของผลิตภัณฑ์
- Profile cylinder
- Knoblock set
- Deadbolt
- Padlock
- Panic lever

Specification of the master key system
คุณสมบัติของระบบเคัฟิลล์
- EM
- SD
- PSM

Master key system number overview
สําหรับระบบหมดสินสิทธิ์

<table>
<thead>
<tr>
<th>Add on numbers for MK articles</th>
<th>รายละเอียดของตัวชุดแต่ง</th>
<th>Cat. No. for MK keys</th>
<th>รหัสสินค้าสําหรับระบบหมดสินสิทธิ์</th>
</tr>
</thead>
<tbody>
<tr>
<td>EM-System ระบบ-EM</td>
<td>85 = Master key (MK)</td>
<td>916.95.90041</td>
<td>EM-Master key/ระบบเคัฟิลล์-EM</td>
</tr>
<tr>
<td>SD-System ระบบ-SD</td>
<td>81 = Master key (MK)</td>
<td>916.09.91541</td>
<td>SD-Master key/ระบบเคัฟิลล์-SD</td>
</tr>
<tr>
<td></td>
<td>82 = Grand master key (GMK)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSM-System ระบบ-PSM</td>
<td>01 = Master key (MK)</td>
<td>916.95.90541</td>
<td>PSM-Master key/ระบบเคัฟิลล์-PSM</td>
</tr>
<tr>
<td></td>
<td>21 = Grand master key (GMK)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Keys</td>
<td>11 = Individual key/Construction key (CK)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>31 = Submaster key (SMK)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>41 = Master key (MK)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>51 = Grand master key (GMK)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>หมายเหตุ: การประมวลผลของข้อมูลนี้ไม่สามารถมีผลต่อการตัดสินใจในการซื้อหรือใช้สินค้าได้</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
How to order Master key system EM

Features
- With 5 pin tumblers
- One side lock function
- One side thumbturn

Supplied with
1 Double profile cylinder
3 keys
1 Fastening screw

Details
- Profile cylinder
- Knob lockset
- EM Key

How to order...

<table>
<thead>
<tr>
<th>Length A mm</th>
<th>Length B mm</th>
<th>Length C mm</th>
<th>Nickel plated</th>
<th>Brass polished</th>
<th>Antique brass</th>
<th>Brass copper</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>30</td>
<td>60</td>
<td>916.95.306</td>
<td>916.95.308</td>
<td>916.95.301</td>
<td>916.95.305</td>
</tr>
<tr>
<td>32.5</td>
<td>32.5</td>
<td>65</td>
<td>916.95.316</td>
<td>916.95.318</td>
<td>916.95.311</td>
<td>916.95.315</td>
</tr>
<tr>
<td>35.5</td>
<td>35.5</td>
<td>71</td>
<td>916.95.326</td>
<td>916.95.328</td>
<td>916.95.321</td>
<td>916.95.325</td>
</tr>
</tbody>
</table>
How to order Master key systems SD

Features
- With 5 pin tumblers
- One side lock function
- One side thumbturn

Supplied with
- 1 Double profile cylinder
- 3 keys
- 1 Fastening screw

Specifications
- Brass nickel plated, thumbturn aluminium
- 1 Double profile cylinder
- 3 keys
- 1 Fastening screw

How to order
SD-Master Key
- Profile cylinder
- Knob lockset
- Deadbolt lock
- Panic lever handle
- Pad lock
- SD Key

SD-Grand Master Key
- Profile cylinder
- Knob lockset
- Deadbolt lock
- Panic lever handle
- Pad lock
- SD Key

Length A mm  | Length B mm  | Length C mm  | Brass nickel plated, thumbturn aluminium | Brass nickel plated, thumbturn stainless steel | Brass polished
---|---|---|---|---|---
27.5 | 27.5 | 55 | 916.01.001 | 916.08.661 | 916.08.916
27.5 | 31.5 | 59 | 916.01.022 | 916.08.662 | 916.08.917
27.5 | 31.5 | 63 | 916.01.027 | 916.08.672 | 916.08.918
31.5 | 35.5 | 67 | 916.01.028 | 916.08.673 | 916.08.919
35.5 | 35.5 | 71 | 916.01.013 | 916.08.683 | 916.08.920
40.5 | 40.5 | 81 | 916.01.018 | 916.08.684 | 916.08.921
45.5 | 45.5 | 91 | 916.08.505 | 916.08.705 | 916.08.922
50.5 | 50.5 | 101 | 916.08.516 | 916.08.716 | 916.09.916

MK-System
- Catalogue No. profile cylinder
- Individual key/Construction key
- Master key
- Catalogue No. key

GMK-System
- Catalogue No. profile cylinder
- Individual key/Construction key
- Sub. master key
- Catalogue No. key
- Master key
- Catalogue No. key
- Grand master key
- Catalogue No. key

Individual key/Construction key
- Catalogue No. key
- Sub. master key
- Catalogue No. key
- Master key
- Catalogue No. key
- Grand master key
- Catalogue No. key

13.03.2015

New products and systems: www.hafele.com
ML PRODUCTS AND SERVICES
www.hafele.com
How to order Master key system PSM

Features
• With 5 pin tumblers
• One side lock function
• One side thumbturn

Supplied with
1 Double profile cylinder
3 keys
1 Fastening screw

Notes:
• supplied with lock cylinder 15 mm, lock plug 15 mm, lock case 20 mm.

Length A mm  

Length B mm  

Length C mm  

Brass nickel plated, thumbturn aluminium  

Brass nickel plated, thumbturn stainless steel  

Brass polished  

Length A mm  ความยาว A มม.  

Length B mm  ความยาว B มม.  

Length C mm  ความยาว C มม.  

Brass nickel plated, thumbturn aluminium  ทองเหลืองสีน้ำเงิน  

Brass nickel plated, thumbturn stainless steel  ทองเหลืองสีน้ำเงิน  

Brass polished  ทองเหลือง)

27.5  27.5  55  916.01.001  916.08.661  916.01.051
27.5  31.5  59  916.01.022  916.08.662  916.01.072
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40.5  40.5  81  916.01.018  916.08.694  916.01.068
45.5  45.5  91  916.08.505  916.08.705  916.08.905
50.5  50.5  101  916.08.516  916.08.716  916.08.916

How to order PSM-Master Key

How to order PSM-Grand Master Key

PATENTED

New products and systems: www.hafele.com
ผลิตภัณฑ์และวัสดุอุปกรณ์ใหม่: www.hafele.com

We reserve the right to alter specifications without notice. (HTH Architectural Hardware 2015.شحن ของ Ôi, รายงาน{v*:Îvj'!568y.�v,\)3iy,~h

AH 2.100
The ABUS reputation and tradition is firmly based on international business. Historically based on strong European activity, we were quick to orient towards global sales and manufacturing. Today ABUS is active in many significant countries via its own subsidiaries and partners with approximately 2,500 employees. This continually adds synergy to the mutual strength of the ABUS Group continually enabling us to create: Powerful solutions for mechanical and electronic security.

Security is a matter of trust!
More security with ABUS is based on:
• More than 85 years of experience
• Intensive exchange of professional experiences and information with police forces, insurance companies and independent test institutes
• Innovation in research, development and design
• Permanent quality control
• Made in Germany

The broad range of ABUS products offers the right solution to meet all purposes and security requirements.

The most modern production facilities at three sites in Germany and the use of high-grade materials guarantee the recognized level of quality of ABUS products.

ABUS security products are tested and acknowledged by independent, neutral test institutes in several European countries.

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TITALIUM™ Padlock
ตัวล็อคสายยิปซูม รุ่น TITALIUM™

Powerful
ประสิทธิภาพ

The TITALIUM™ padlocks provide maximum safety at an excellent price-performance ratio - in purchasing as well as in sales.
ตัวล็อคสายยิปซูม รุ่น TITALIUM™ ที่มี ความปลอดภัยสูง พร้อมกับประสิทธิภาพ ในการซื้อ-ขายที่ดี

Lightweight
น้ำหนักเบา

All locks of the TITALIUM™ series are due to the special aluminum alloy real lightweights - without compromising on security.
ตัวล็อคสายยิปซูม รุ่น TITALIUM™ ที่มีน้ำหนักเบา โดยไม่มีผลกระทบต่อความปลอดภัย

Innovative
นวัตกรรมที่ทันสมัย

On the basis of intensive materials research TITALIUM™ was developed - an innovative material for a new generation of padlocks.
จากรายงานของการวิจัยสังคม ตัวล็อคสายยิปซูม ที่มีนวัตกรรมที่ทันสมัย สำหรับการใช้งานที่ดีขึ้น

Strong
ความแข็งแรง

Through the use of innovative TITALIUM™ material, the products are extremely robust and are characterized by a strong and tough lock body.
จากวัสดุที่มีความยืดหยุ่น ตัวล็อคสายยิปซูม ซึ่งทำให้ผลิตภัณฑ์มีความแข็งแรงและทนทาน

Varied
ความหลากหลาย

Many TITALIUM™ locks have shackles with NANO-Protect - enabling a wide range of applications in outdoor areas.
ตัวล็อคสายยิปซูม รุ่น TITALIUM™ มีนักออกแบบชั้นนำ ที่มีความสามารถในทุกอุปกรณ์

Mature
คุณภาพที่มั่นคง

Years of research ensure an optimum product and production quality of each TITALIUM™ padlock.
จากวิจัยที่จัดการได้สำเร็จความมั่นใจ ที่นำมา列为พัฒนาและคุณภาพ ในการผลิตสู่การตลาดในด้านสายยิปซูม รุ่น TITALIUM™

TITALIUM™ Padlock
ตัวล็อคสายยิปซูม รุ่น TITALIUM™

New products and systems: www.hafele.com
## Locking and Security

### Security & Safety Locking

#### PICTOGRAM

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="100% Rust-free" /></td>
<td>All elements of the lock are made from non-corrosive materials</td>
</tr>
<tr>
<td><img src="image2" alt="Highly corrosion resistant" /></td>
<td>Highly corrosion resistant due to surface protection</td>
</tr>
<tr>
<td><img src="image3" alt="Shackle made from hardened steel" /></td>
<td>Shackle made from hardened steel</td>
</tr>
<tr>
<td><img src="image4" alt="Paracentric keyway" /></td>
<td>Paracentric keyway: resists professional picking by special key profile</td>
</tr>
<tr>
<td><img src="image5" alt="Drill protection" /></td>
<td>Drill protection: cylinder is protected against drilling and leverage</td>
</tr>
<tr>
<td><img src="image6" alt="Shackle guard" /></td>
<td>Shackle guard: shackle access restricted, protecting shackle from attack</td>
</tr>
<tr>
<td><img src="image7" alt="ABUS-Plus" /></td>
<td>ABUS-Plus: original ABUS-Plus disc cylinder – highest precision, highest security</td>
</tr>
<tr>
<td><img src="image8" alt="Resettable code" /></td>
<td>Resettable code</td>
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<tr>
<td><img src="image9" alt="Double bolted" /></td>
<td>Double bolted: both sides of the shackle are secured by bolts or balls – increased protection against attacks and manipulation</td>
</tr>
<tr>
<td><img src="image10" alt="RK" /></td>
<td>RK: cylinder can be taken out and can be rekeyed to match an existing key</td>
</tr>
<tr>
<td><img src="image11" alt="Lock body" /></td>
<td>Lock body made from special aluminum alloy - light but secure</td>
</tr>
<tr>
<td><img src="image12" alt="LED key" /></td>
<td>LED keya</td>
</tr>
<tr>
<td><img src="image13" alt="Self-locking" /></td>
<td>Self-locking: the lock is locked automatically by pushing down the shackle – no key needed for locking</td>
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<tr>
<td><img src="image14" alt="Key-retaining" /></td>
<td>Key-retaining: a key is needed for locking, lock retains key until locked</td>
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<tr>
<td><img src="image15" alt="KA" /></td>
<td>KA: available keyed alike (several locks with the same key)</td>
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<tr>
<td><img src="image16" alt="MK" /></td>
<td>MK: available master keyed (one key opens many different locks)</td>
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<td><img src="image17" alt="Spare keys" /></td>
<td>Spare keys are made only upon presentation of code card</td>
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<tr>
<td><img src="image18" alt="New sophisticated plating" /></td>
<td>New sophisticated plating for extreme corrosion resistance</td>
</tr>
<tr>
<td><img src="image19" alt="Development and production in Germany" /></td>
<td>Development and production in Germany</td>
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New products and systems: [www.hafele.com](http://www.hafele.com)

We reserve the right to alter specifications without notice (HTH Architectural Hardware 2015).
PICTOGRAM
ธุรกิจสัญลักษณ์

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<td>Packaging made from Eco-friendly Recycled materials</td>
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<td><img src="image2.png" alt="PVC" /></td>
<td>Product and packaging made of recyclable materials without PVC</td>
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<td><img src="image3.png" alt="Zero waste" /></td>
<td>Zero waste production policy at ABUS Factories</td>
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<tr>
<td><img src="image4.png" alt="Special lubricant" /></td>
<td>Special lubricant suitable for use in food production</td>
</tr>
<tr>
<td><img src="image5.png" alt="Special materials" /></td>
<td>Special materials and coating for ultimate corrosion resistance and long life</td>
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</table>

ABUS GLOBAL PROTECTION STANDARD®
ABUS มาตรฐานความปลอดภัยระดับหลัก

1 2 3 4 5 6 7 8 9 10

A higher level means more security - The ABUS Global Protection Standard makes it easier to find the qualified products
ระดับสูงขึ้นหมายถึงการรักษาความปลอดภัยที่สูงขึ้น - ด้วยมาตรฐานสัญลักษณ์ ABUS GLOBAL PROTECTION STANDARD® ทำให้คุณสามารถเลือกผลิตภัณฑ์ที่มีคุณภาพได้ง่ายยิ่งขึ้น

ABUS Mobile Security Levels
ระดับการรักษาความปลอดภัยสำหรับอุปกรณ์เคลื่อนที่จาก ABUS

Standard Levels – Basic comfort and Modern Design (Range 1-4)
อุปกรณ์การรักษาความปลอดภัยระดับมาตรฐาน (ระดับ 1-4)

Extra Levels - Allround Comfort and Creative Design (Range 5-7)
อุปกรณ์การรักษาความปลอดภัยระดับพิเศษ (ระดับ 5-7)

Maximum Levels - Multi Comfort and Innovative Design (Range 8-25)
อุปกรณ์การรักษาความปลอดภัยระดับเอกฉันท์ (ระดับ 8-25)
TITALIUM™ Padlock ABUS
ตัวล็อกติดอยู่ รุ่น TITALIUM™ ABUS

**Feature**
- Paracentric keyway for increased protection against manipulation
- Special steel shackle with new sophisticated plating for extreme corrosion resistance
- High precision 3-5 pins cylinder
- Double bolted shackle
- Tulip-shaped keyhead

**Material/Finish**
- Chrome-plated cylinder plug
- Lock body made of TITALIUM™ special aluminium-high security with low weight
- Hardened steel shackle
- Stainless steel finish

**Specifications**

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Packing: 1 pc.

**Order reference**
Hasp ................................................................. page 2.116

ข้อมูลนี้ไม่ใช่การจัดเรียง
gล่องประจุ ............................................................... หน้า 2.116
**TITALIUM™ Padlock ABUS**

**Feature**
- Paracentric keyway for increased protection against manipulation
- Special steel shackle with new sophisticated plating for extreme corrosion resistance
- High precision 6 pins cylinder
- Double bolted
- Tulip-shaped keyhead

**Material/Finish**
- Chrome plated cylinder plug
- Lock body made of TITALIUM™ special aluminium-high security with low weight
- Hardened steel shackle
- Stainless steel finish

**Configuration**
- Chrome plated cylinder plug
- Lock body made of TITALIUM™ special aluminium-high security with low weight
- Hardened steel shackle
- Stainless steel finish

**Version**

<table>
<thead>
<tr>
<th>Version</th>
<th>Size mm</th>
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<th>Security level</th>
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Packing: 1 pc.

**Order reference**

HASP ................................................................. page 2.116

ข้อแนะนำในการเลือกชั้น
กล่องบรรจุ ............................................................. หน้า 2.116
**TITALIUM™ Padlock in masterkey sets ABUS**

**Feature**
- Paracentric keyway for increased protection against manipulation
- Special steel shackle with new sophisticated plating for extreme corrosion resistance
- Precision cylinder, double bolted
- Master keyed (one key can open several locks)

**Material/Finish**
- Chrome-plated cylinder plug
- Lock body made from TITALIUM™ special aluminium-high security with low weight
- Stainless steel finish

**Order reference**
Hasp ....................................................................... page 2.116

**New products and systems:** www.hafele.com
มีผลิตภัณฑ์และวัสดุระบบใหม่: www.hafele.com
GRANIT™ Padlock ABUS ตัวล็อคชายู่ รุ่น GRANIT™ ABUS

Feature
- New black GRANIT™ coating for even more corrosion resistance
- Plus Disc cylinder provides highest protection against manipulation
- Shackle guard protects against attacks with tools
- RK: cylinder can be re-keyed to match the existing key
- Available with 3 keys: 2 keys and 1 LED key

Material/Finish
- Body and shackle made of hardened alloy steel
- Black finish

คุณสมบัติ
- เคสใหม่ที่มีการปกป้องจากความเป็นกรดด่าง
- ปอร์ทกุญแจสามารถถูก skeptical และระบบ Plus Disc
- เหล็กที่แข็งแรงเพื่อป้องกันการโจมตี
- รุ่น RK: สามารถถูกตัดกุญแจได้
- มาพร้อมกุญแจ 3 ตัว: 2 ตัว และ 1 ตัว LED

วัสดุ/สี
- ตัวถูกบุกเบิกและสายลวดจากเหล็กที่แข็งแรง
- สีดำ

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Packing: 1 pack ชั้นบรรจุ 1 เลข

Order reference
Hasp ............................................................... page 2.116

ข้อมูลเบื้องต้นในการสั่งซื้อ
กรองประจำ ............................................................หน้า 2.116
GRANIT™ Padlock ABUS
ตัวล็อกสายยุ่ง GRANIT™ ABUS

**Feature**
- New black GRANIT™ coating for even more corrosion resistance
- Plus Disc cylinder provides highest protection against manipulation
- Available with 3 keys: 2 keys and 1 LED key

**Material/Finish**
- Body and shackle are made of hardened alloy steel
- Black finish

**Specifications**

<table>
<thead>
<tr>
<th>Version</th>
<th>Size mm</th>
<th>Security level</th>
<th>Cat. No.</th>
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**Order reference**
Hasp ............................................................... page 2.116

ข้อมูลมุมมองในการเลือก
กล่องบรรจุ ............................................................. หน้า 2.116
DISKUS™ Padlock ABUS
ตัวล็อคลูกจิก รุ่น DISKUS™ ABUS

Feature
- ECOLUTION™: Environmental compatible products
- Design for 360° protection
- DISKUS™ deep-welding technology for maximum strength
- Shrouded shackle preventing from attack by force
- Key retaining: Locking only with the key
- Anti-cut plate
- Cylinder cover

Material
- Stainless steel body and stainless steel inner mechanism provide excellent corrosion resistance
- Stainless steel shackle

คุณสมบัติ
- ECOLUTION™ ถือเป็นผู้ผลิตพร้อมกับกันมิตรภาพและมิตรภาพเพื่อส่งเสริม
- ออกแบบมาเพื่อการป้องกันความเสี่ยงด้านการโจมตี ABUS™
- ศาลีดลูกชิ้นล้มล้างแผนที่เพื่อป้องกันการโจมตี
- ป้องกันการขัดขวาง
- ผนังการตัน
- ผนังลูกจิก
- ผนังการตันกันการโจมตี
- ผนังอุปกรณ์กันการโจมตี
- ละลายลูกจิกจากแผนที่
- ศาลีดลูกชิ้นล้มล้างแผนที่

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</thead>
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<td>70x70x31</td>
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<td>8</td>
<td>482.01.848</td>
</tr>
</tbody>
</table>

Order reference
Hasp ........................................................................ page 2.116
## My Lock Padlock ABUS

**Feature**
- ECOLUTION™: Environmental compatible products
- 40 mm aluminium body with light weight
- Precision brass pin tumbler mechanism
- Sophisticated key way ensures only the correct key way will operate the padlock
- Writable on the vinyl body with any permanent marker for identification

**Material**
- Aluminium body
- Hardened steel shackle
- Vinyl casing available

### Cósomorph
- ECOLUTION™: Products that are environmentally compatible
- 40 mm aluminium body
- Hardened steel shackle
- Sophisticated key way ensures only the correct key way will operate the padlock
- Writable on the vinyl body with any permanent marker for identification

### Feature
- ECOLUTION™: Environmental compatible products
- 40 mm aluminium body with light weight
- Precision brass pin tumbler mechanism
- Sophisticated key way ensures only the correct key way will operate the padlock
- Writable on the vinyl body with any permanent marker for identification

### Material
- Aluminium body
- Hardened steel shackle
- Vinyl casing available

<table>
<thead>
<tr>
<th>Version</th>
<th>Size mm</th>
<th>Pinning system</th>
<th>Security level</th>
<th>Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>กูน</td>
<td>ระบุพัน</td>
<td>ระดับความปลอดภัย</td>
<td>สี</td>
<td>รหัสสินค้า</td>
</tr>
<tr>
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<td>ระบุพัน</td>
<td>ระดับความปลอดภัย</td>
<td>สี</td>
<td>รหัสสินค้า</td>
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Packing: 1 pc.

Order reference

Hasp .......................................................... page 2.116

ข้อแนะนำในการเลือก

กลอนประจำ ..........................................................หน้า 2.116

New products and systems: www.hafele.com

ผลิตภัณฑ์และวัสดุให้ใหม่: www.hafele.com
Sealed padlock ABUS

<table>
<thead>
<tr>
<th>Version</th>
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<th>Size mm Width x Height x Depth</th>
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</tr>
</thead>
<tbody>
<tr>
<td>70IB</td>
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<td>41</td>
<td>53x75x29</td>
<td>23x25x9</td>
<td>482.01.854</td>
</tr>
</tbody>
</table>

Feature
- ECOLUTION™: Environmental compatible products
- Sealed lock body with cover seal and drainage channels to protect the cylinder against water and dirt
- Shock absorbing vinyl casing
- Precision pin tumbler cylinder
- Suitable for outdoor usage
- Pinning system 5
- Security level 5

Material/Finish
- Body made of solid brass
- Stainless steel shackle
- Inner components made of non-corrosive material
- Blue finish

Note: The images of the padlocks are not directly translatable into a plain text representation. The table and features are described in the text.
## Combination padlock ABUS

<table>
<thead>
<tr>
<th>Version</th>
<th>Size mm</th>
<th>Size mm</th>
<th>Colour</th>
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</thead>
<tbody>
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<td>23x53x14</td>
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<tr>
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<td></td>
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<tr>
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<td>Yellow</td>
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<tr>
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<td></td>
<td>Yellow</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Silver</td>
<td>482.01.862</td>
</tr>
</tbody>
</table>

_Packing: 1 pc._

**Feature**
- Ideal choice on bags or tool boxes
- Strong and light weight
- 3 digit re-settable combination
- Better for laser engraving
- Security level 3

**Material**
- Anodized aluminium lock body
- Solid steel shackle

**คุณสมบัติ**
- เหมาะสำหรับกระเป๋าหรือกล่องเครื่องมือ
- เจาะแต่งและน่าทันท่วง
- รหัส 3 หลัก สามารถเปลี่ยนรหัสได้
- ตัวล็อกแนวโน้มการล็อกคีย์แพร่กระจาย
- ระดับความปลอดภัย 3

**รุ่น**
- ตัวแม่ญัจญ์จะลื่นจากอุปกรณ์ในมัน
- ลักษณะโดยหลัก
Combination padlock ABUS
ตัวล็อกสายอยู่ รุ่นเบอร์หมุน ABUS

**Feature**
- Ideal complement with luggages and bags
- 3 digits re-settable code
- Security level 3

**Material**
- Aluminium body
- Steel shackle

---

**Combination padlock**

<table>
<thead>
<tr>
<th>Feature</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ideal complement with luggages and bags</td>
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<tr>
<td>3 digits re-settable code</td>
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</tr>
<tr>
<td>Security level 3</td>
<td></td>
</tr>
</tbody>
</table>

**Material**
- Aluminium body
- Steel shackle

<table>
<thead>
<tr>
<th>Feature</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ideal complement with luggages and bags</td>
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**Version**

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<tbody>
<tr>
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<td>14x19x5</td>
<td>Black silver</td>
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<td>2</td>
<td>151</td>
<td>24x64x9</td>
<td>10x15x3</td>
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<tr>
<td></td>
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</tr>
<tr>
<td></td>
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<td>Yellow</td>
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</table>

**Packing:** 1 pc.

---

We reserve the right to alter specifications without notice (HTH Architectural Hardware 2015).
Combination padlock ABUS
ตัวล็อคสาย-hard ABUS

**Feature**
- Precision locking mechanism with special protection against manipulation
- 4 digits re-settable code
- Shackles are double bolted for higher pulling resistance
- Security level 5

**Material/Finish**
- Body made of solid forged brass
- Stainless steel shackles
- Inner components made of non-corrosive materials
- Brass finish

**Specifications**

<table>
<thead>
<tr>
<th>Version</th>
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<tbody>
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</tbody>
</table>

Packing: 1 pc.

**Notes**
- We reserve the right to alter specifications without notice (HTH Architectural Hardware 2015).
Locking and Security
Security & Safety Locking

General purposes hasp ABUS
กอนประตู รูปใช้งานทั่วไป  ABUS

**Feature**
- Concealed hinge pin
- Hardened staple
- Hidden screw
- Corrosion protected

**Material/Finish**
- Hasp and hinge pins are made of 100% stainless steel for maximum rust resistance
- Stainless steel finish

**Specifications**

<table>
<thead>
<tr>
<th>Version</th>
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</tbody>
</table>

**Notes**
- Packing: 1 pc.
- Made in Germany
- Hinge pins are made of 100% stainless steel for maximum rust resistance.

**Material/Finish**
- Hasp and hinge pins are made of 100% stainless steel for maximum rust resistance
- Stainless steel finish

**Versions**
- ABUS

**Packing:**
- 1 pc.

New products and systems: [www.hafele.com](http://www.hafele.com)
### GRANIT™ Hasp ABUS  
**กลอนประตู รุ่น GRANIT™ ABUS**

**Feature**
- Hardened staple
- Two hardened hinge pins
- Ideal combination with Granit™ padlock
- Including coach bolt and back plate
- Security level 10

**Material/Finish**
- Tough white heart hardened malleable iron
- Black finish

### Steel security hasp ABUS  
**กลอนประตู ABUS**

**Feature**
- Hardened staple
- Ideal combination with DISKUS™ padlock
- Hinge pins protected against attack
- Complete with all mounting hardware
- Security level 8

**Material/Finish**
- Hasp and hinge pins are made of 100% stainless steel for maximum rust resistance
- Stainless steel finish

### Specifications

<table>
<thead>
<tr>
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<tbody>
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**Packing:** 1 pc.

---

New products and systems: [www.hafele.com](http://www.hafele.com)

ผลิตภัณฑ์และนวัตกรรมใหม่: [www.hafele.com](http://www.hafele.com)
**Wall & floor anchor ABUS**

**Features**
- Can be used indoors and outdoors as wall or floor anchor
- Extra wide shackle for easy locking
- Due to its flat shape and the use of high quality plastic, it is possible to drive over the anchor in the fixed position
- Includes fixing accessories

**Material/Finish**
- 16 mm shackle made of hardened special steel for extreme resistance against the most aggressive attacks
- Black finish

**Specifications**

<table>
<thead>
<tr>
<th>Version</th>
<th>Size mm (width, depth)</th>
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</table>

Packing: 1 pc.

**Chains with loop ABUS**

**Features**
- Top security against all types of aggressive attacks
- Corrosion protected hexagonal link chain with black sleeve cover
- Suitable for both outdoor and indoor usage
- Available in 6, 8, 10 and 12 mm diameters

**Material/Finish**
- Chain made of hardened special chain steel
- Fabric sleeve prevents paints work and dirt
- Black finish

**Specifications**

<table>
<thead>
<tr>
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<td>8KS 85</td>
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Packing: 1 pc.
### TRESOR Bike lock ABUS

**Feature**
- Corrosion protected link chain with black sleeve cover
- 4-digits re-settable code
- Special picking protection for enhanced security against unauthorized acquire the number code through manipulation of mechanism
- Suitable for motor bike
- Code wheels 4

**Material**
- 7 mm thick chain made of hardened special chain steel
- Fabric sleeve prevents paints work and dirt

**Code Protection**
- 9 mm thick chain made of hardened special chain steel
- Fabric sleeve prevents paints work and dirt

<table>
<thead>
<tr>
<th>Version</th>
<th>Size mm/cm</th>
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<td>482.97.010</td>
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</tbody>
</table>

**Packing:** 1 pc.

---

### CITY CHAIN Bike lock ABUS

**Feature**
- 9 mm hexagonal chain with fabric sleeve to prevent damage of bicycle’s paint work
- Plus cylinder for high protection against manipulation
- Two keys are supplied with the lock
- Automatic cover for key holes against dirt and corrosion
- Available with code card for additional and replacement key

**Material**
- The chain, the case as well as supporting elements of the locking mechanism made of special hardened steel

**Code Protection**
- 9 mm thick chain made of hardened special chain steel
- Fabric sleeve prevents paints work and dirt

- The chain, the case as well as supporting elements of the locking mechanism made of special hardened steel

<table>
<thead>
<tr>
<th>Version</th>
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<th>Weight kg</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
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</table>

**Packing:** 1 pc.

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New products and systems: www.hafele.com

More information: www.hafele.com
BORDO LITE Bike lock ABUS
ห่วงโซ่ล็อคจักรยานยนต์ รุ่น BORDO LITE ABUS

**Feature**
- 5 mm steel bar with extra soft 2 components coating to prevent damage to the bicycle’s paint work
- Colour matching silicone cover for the lock body with soft touch properties
- Link construction offers compact folding
- Link protection shield offers high saw protection of the link

**Material**
- The bars, the link, the case as well as supporting elements of the locking system made of special hardened steel

**Specifications**

<table>
<thead>
<tr>
<th>Version</th>
<th>Size cm</th>
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</table>

*Packing: 1 pc.*

We reserve the right to alter specifications without notice (HTH Architectural Hardware 2015).
SINUS Bicycle lock ABUS
ห่วงล็อกจักรยาน รุ่น SINUS ABUS

Feature
- 12 mm parabolic shackle
- Shackle double bolted in the lock body
- Extra classe cylinder with encoded reversible key
- Two keys are supplied with the lock

Material/Finish
- The shackle, the case as well as the supporting elements of locking mechanism made of special hardened steel
- Black finish

Specifications

<table>
<thead>
<tr>
<th>Version</th>
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<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

Packing: 1 pc.

MILLENIO PHANTOM Bike lock ABUS
ห่วงโซ่จักรยาน รุ่น MILLENIO PHANTOM ABUS

Feature
- 14 mm strong, high quality and very flexible coil cable
- PVC coating in matt black lock to prevent damage of the bicycle’s paint work
- Special cylinder with encoded reversible key
- Two keys are supplied with the lock

Finish
- Black finish

Specifications

<table>
<thead>
<tr>
<th>Version</th>
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<th>Weight kg</th>
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Packing: 1 pc.
COBRA Cables for bicycle, equipment, hardware ABUS
สายเคเบิลสำหรับล็อกจักรยานหรืออุปกรณ์ทั่วไป รุ่น COBRA ABUS

Feature
- Ideal to secure bicycles or household accessories etc.
- Cables protect like front and rear wheel/frame and seat as the ideal complement to the U-shackle locks or padlock
- Suitable for both outdoor and indoor usage
- Available in 3 thickness sizes of: 8, 10 and 12 mm

Material
- Flexible steel cable

COBRA Cables for bicycle, equipment, hardware ABUS
สายเคเบิลสำหรับล็อกจักรยานหรืออุปกรณ์ทั่วไป รุ่น COBRA ABUS

<table>
<thead>
<tr>
<th>Version</th>
<th>Size mm/cm</th>
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</tr>
</thead>
<tbody>
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<td>10/500</td>
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<td>12/120</td>
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Packing: 1 pc.

GRANIT™ Motorbike lock ABUS
ตัวล็อกสำหรับรถจักรยานยนต์ รุ่น GRANIT™ ABUS

Feature
- Top protection against wrongful use of the bike
- Drill protected
- Shackle double bolted
- Plus cylinder system offers extremely high secure against intelligent breaking methods

Material
- Lock body and shackle are made of special hardened steel

GRANIT™ Motorbike lock ABUS
ตัวล็อกสำหรับรถจักรยานยนต์ รุ่น GRANIT™ ABUS

<table>
<thead>
<tr>
<th>Version</th>
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<td></td>
</tr>
</tbody>
</table>

Packing: 1 pc.

We reserve the right to alter specifications without notice (HTH Architectural Hardware 2015).
GRANIT™ Sledg Motorbike lock ABUS

Feature
- 13 mm steel bolt
- The sliding mechanism permits compact measurements and also flexible easy mounting
- Soft plastic cover for better handling and to prevent paint work damages on the rim
- X-plus special cylinder for highest protection against manipulation
- Two keys are supplied with the lock 1 is LED key
- Code card for additional or replacement keys
- A memory cable as reminder to prevent an unintended ride off with the bike still locked is included

Material
- The bolt lock body as well as locking elements of the locking mechanism made of special hardened steel

<table>
<thead>
<tr>
<th>Version</th>
<th>Size mm</th>
<th>Weight kg</th>
<th>Colour</th>
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<td>Red</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Yellow</td>
<td>482.97.311</td>
</tr>
</tbody>
</table>

Packing: 1 pc.

New products and systems: www.hafele.com

Ravi Print, 2015.10.01.05, 30150 011.11.16.C.30150 011.16.16.C.
ConLock GRANIT™ Container lock ABUS

**Feature**
- Fits the most common transport and storage containers
- Also applicable for sliding doors, gates, truck wing doors etc.
- For additional security e.g., container
- Use suitable padlock as locking device
- Manufactured with special welding technology for enhanced security
- All parts corrosion resistant

**Material**
- Extremely resistant steel

**Feature**
- Fits the most common transport and storage containers
- Also applicable for sliding doors, gates, truck wing doors etc.
- For additional security e.g., container
- Use suitable padlock as locking device
- Manufactured with special welding technology for enhanced security
- All parts corrosion resistant

<table>
<thead>
<tr>
<th>Version</th>
<th>Size mm</th>
<th>Weight kg</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>215/100</td>
<td>220x120x85</td>
<td>6.534</td>
<td>482.97.800</td>
</tr>
</tbody>
</table>

Packing: 1 pc.

Dimensions 1 pc.
**Key Garage™ ABUS**

เก็บเกี่ยวกับกลุ่มของ ABUS

**Feature**
- Large solid metal housing offers more capacity than conventional key safes
- Protective keyboard panel cover
- Large hinged front door for maximum convenience
- 10 push button re-settable combination
- Push buttons for commercial use
- 767: for wall fixing with screws
- 777: for fixing with shackle E.g, on door knob
- Hold up to 8 cards or 20 keys

**Finish**
- Black silver finish

**คุณสมบัติ**
- ตัวกล่องล็อคจากเหล็กมีความทนทานและใช้งานได้ดีกว่าตู้เก็บกลุ่มกุญแจ
- ฝาปิดหน้าปัดเพื่อป้องกันภัย
- ประตูหลังที่เปิดเพื่อความสะดวกในการเปิดปิด
- บุกันลายตามแบบเปลี่ยนรหัสล็อกได้
- กลุ่มล็อกแม่แบบใช้ได้:
  - รุ่น 767: ใช้ติดตั้งกับประตู
  - รุ่น 777: ใช้ติดตั้งกับบันไดประตู
  - สามารถเก็บบัตรได้มากถึง 8 ใบหรือเก็บกุญแจได้ถึง 20 ตัว
  
  - สีดำเงิน

<table>
<thead>
<tr>
<th>Version</th>
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<th>Size mm</th>
<th>Weight kg</th>
<th>Cat. No.</th>
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<tbody>
<tr>
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<td>84x175x46</td>
<td>36x48x9.5</td>
<td>0.750</td>
<td>482.97.900</td>
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<tr>
<td>ชุด 767</td>
<td>82x120x46</td>
<td></td>
<td>0.650</td>
<td>482.97.901</td>
</tr>
</tbody>
</table>

Packing: 1 pc.

ข้อมูลเพิ่มเติม 1 ชิ้น

---

New products and systems: [www.hafele.com](http://www.hafele.com)

ผลิตภัณฑ์และวัสดุประกอบใหม่: [www.hafele.com](http://www.hafele.com)
Key Garage™ ABUS  กล่องเก็บตู้กุญแจแบบล็อค ABUS

**Feature**
- Ideal protected storage for keys and other valuables for authorized persons
- Quick and easy access for frequently changing groups of persons
- 4 digits individually re-settable code
- Protective cover with sliding mechanism
- Shackle version: housing and shackle rubber coated (protect door from scratching)
- 787: for wall fixing with screws
- 797: for fixing with shackle e.g., on door knob
- Hold up to 8 cards or 20 keys

**Material/Finish**
- Solid metal housing
- Black silver finish
- Locking cover made of zinc alloy

**Specifications**

<table>
<thead>
<tr>
<th>Version</th>
<th>Size mm (ขนาด มม.)</th>
<th>Weight kg (น้ำหนัก กก.)</th>
<th>Cat. No. (รหัสสินค้า)</th>
</tr>
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<tbody>
<tr>
<td>797</td>
<td>85x180x46</td>
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<tr>
<td>787</td>
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<td>0.660</td>
<td>482.97.903</td>
</tr>
</tbody>
</table>

Packing: 1 pc.

We reserve the right to alter specifications without notice.
Mini Key Garage™ ABUS
กล้องเก็บดอกกุญแจแบบพกพา ABUS

**Feature**
- Compact portable key garage
- Holds 6 keys
- Vinyl coated shackle and back protect surface
- 4 digits re-settable combination

**Material/Finish**
- Solid metal housing provides excellent security
- Silver finish

**Specifications**

<table>
<thead>
<tr>
<th>Version</th>
<th>Size mm</th>
<th>Weight kg</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>737</td>
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</tbody>
</table>

Packing: 1 pc

We reserve the right to alter specifications without notice. (HTH Architectural Hardware 2015)
Customer benefits when using Dialock electronic identification and locking system

The Dialock electronic identification and locking system has some decisive advantages compared to mechanical locking systems:

- More flexible locking systems
- Wide range of applications
- New organisation solutions
- Additional convenience
- High security standards
- Low maintenance costs
- Optimum functionality in buildings and institutions
- Effective investment protection

A wide range of organisational tasks can be performed using the Dialock system. Dialock introduces functionality to banks, offices, hotels, industrial buildings, jewellers, hospitals, laboratories, resorts, retirement homes and administration buildings:

- Suitable for any kind of door or gate and also for furniture doors
- Central administration of the access authorisations for guests, patients, employees, suppliers and visitors

Dialock is based on touchless passive transponder technology:

- No independent power supply
- Low-cost, fail-safe and maintenance-free
- Does not wear

Available in different designs

Dialock ใช้เทคโนโลยีจูบชนิด Active แบบไร้สัญญาณ

- ไม่ใช้แม่เหล็ก
- สนับสนุนไม่มีการลื่นหลุด และไม่จำเป็นต้องป้องกันรั่วซึม
- ไม่มีการเสียบแบต

มีรูปแบบที่หลากหลายที่มี

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- ไม่มีการเสียบแบต

มีรูปแบบที่หลากหลายที่มี
Areas of application for Dialock

Dialock in hotels and resorts
Dialock ในโรงแรมและรีสอร์ท

Dialock in stores and store fixtures
Dialock ในร้านค้าและชั้นวางสินค้า

Dialock in hospitals and retirement homes
Dialock ในโรงพยาบาลและบ้านพักผู้สูงอายุ

Dialock in wellness areas and changing rooms
Dialock ในพื้นที่สุขภาพและห้องเปลี่ยนชุด

Dialock in office
Dialock ในสำนักงาน

Dialock in private residential and living areas
Dialock ในบ้านพักอาศัยและพื้นที่ที่อยู่อาศัยส่วนตัว
Door terminal DT Lite Dialock

Features

- Touchless activation with Tag-it™ key
- Door can be opened without a key at any time from inside
- Blue/red LEDs for indication of locking and unlocking
- After unlocking with Dialock key in standard setting, the door is locked again after 3 seconds, alternate locking/unlocking can be set
- Service life of battery: Approx. 2 years or 22,000 locking/unlocking processes using alkaline-manganese batteries 1.5V AA
- For door thickness: 38–80 mm
- 5 level handles selection
- With real-time clock and logging of all processes
- Degree of protection: IP20
- Infrared interface for programming
- For service personnel, Indication of programming status and when battery change is required

DT Lite stainless steel matt: Please order A–E for one door.

DT Lite brass plated polished PVD: Please order A–G for one door. (Use F and G to change the finish of B from stainless steel matt to brass plated polished PVD)

Blackplate external module

backplate internal module
chu kan sud dakan in

A 1 Module DT Lite
B 1 Mortise lock DT Lite
C 4 Batteries AA
D 1 Round cylinder DT Lite
E 1 Striking plate
F 1 Forend plate
G 1 Threaded screw M5(2pcs)
H 1 Striking plate
I 1 Module DT Lite
J 1 Mortise lock DT Lite
K 4 Batteries AA
L 1 Round cylinder DT Lite
M 1 Striking plate
N 1 Forend plate
O 1 Striking plate
P 1 Threaded screw M5(2pcs)
Q 1 Striking plate
R 1 Module DT Lite
S 1 Mortise lock DT Lite
T 4 Batteries AA
U 1 Round cylinder DT Lite
V 1 Striking plate
W 1 Forend plate
X 1 Striking plate
Y 1 Threaded screw M5(2pcs)
Z 1 Striking plate
## Locking and Security
### Electronic Locking System

**Module DT Lite**

**Determine lever handle and opening direction**

The opening direction inwards or outwards must be selected with the mortise lock.

**Supplied with**

1. Backplate external module with processor
2. Backplate internal module
3. Lever handle aperture parts
4. Square spindle 8 mm
5. Square spindle DND

**Door handle design**

<table>
<thead>
<tr>
<th>Door handle design</th>
<th>Door thickness mm</th>
<th>Stainless steel matt</th>
<th>Brass plated polished PVD</th>
<th>Stainless steel matt</th>
<th>Brass plated polished PVD</th>
</tr>
</thead>
<tbody>
<tr>
<td>135</td>
<td>38-65</td>
<td>917.56.000</td>
<td>917.56.008</td>
<td>917.56.010</td>
<td>917.56.018</td>
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<tr>
<td></td>
<td>66-80</td>
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<td>917.56.028</td>
<td>917.56.030</td>
<td>917.56.038</td>
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<td>917.56.208</td>
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<td>917.56.218</td>
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<td>917.56.228</td>
<td>917.56.230</td>
<td>917.56.238</td>
</tr>
</tbody>
</table>

**Order reference**

Please order maintenance tools, programming tools and Tag-it™ cards additionally.

**New products and systems: www.hafele.com**

**We reserve the right to alter specifications without notice (HTH Architectural Hardware 2015).**
Features
• For flush interior doors
• With comfort function (panic function)
• With closing spring latch and feedback
• Aperture: Prepared for round cylinder

Technical data
• Deadbolt: 1-turn, forend square
• Lever follower: 8 mm
• Backset A: 70 mm
• Distance B: 99 mm

Material/Finish
• Forend, latchbolt and deadbolt stainless steel matt, lock case and lever follower steel matt

Supplied with
1 Mortise lock and 2 fixing screws
1 Forend plate
1 Flanged striking plate with deadbolt pocket (width 46 mm)
1 Battery box (without batteries)

Mounting
<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Mounting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>917.81.470</td>
<td>External module</td>
<td>With lever handle pointing to the left, outwards opening</td>
</tr>
<tr>
<td>917.81.450</td>
<td>External module</td>
<td>With lever handle pointing to the left, inwards opening</td>
</tr>
<tr>
<td>917.81.480</td>
<td>External module</td>
<td>With lever handle pointing to the right, outwards opening</td>
</tr>
<tr>
<td>917.81.460</td>
<td>External module</td>
<td>With lever handle pointing to the right, inwards opening</td>
</tr>
</tbody>
</table>
Battery AA
แบบดีเซล AA

Note
A lithium battery has a service life of up to 7 times longer as an alkaline-manganese battery.

Order reference
For one door terminal set 4 pieces required.

Battery AA
ประเภท ชิ้น
Alkaline-manganese battery 1.5V AA แบบเดินรีลลิ่ง 1.5V AA 910.54.980
Lithium battery 1.5V AA แบบเดินรีลลิ่ง 1.5V AA 910.54.940

Round cylinder DT Lite
โซลี่คิลเลอร์ ดีที เลิฟ

Features
- Keyed different or keyed alike

Material/Finish
- Cylinder housing brass nickel plated matt

Order reference
Please order for key alike version the key separately.

Supplied with
1 Round cylinder, keyed different
3 Nickel plated steel keys

Supplied with
1 Round cylinder, keyed alike

Features
- Keyed different or keyed alike

Material/Finish
- Cylinder housing brass nickel plated matt

Order reference
Please order for key alike version the key separately.

Supplied with
1 Round cylinder, keyed alike

With different key changes

นิสิตลูกกุญแจไม่ซ้ำกัน

ลูกกุญแจที่มีลักษณะต่างกัน 1 ชิ้น
ลูกกุญแจเพื่อใช้วิธีซักลิ้นลง

With key alike

นิสิตลูกกุญแจเขากัน

ลูกกุญแจที่มีลักษณะต่างกัน 1 ชิ้น

Order reference
ยินดีขอให้คุณสั่งซื้อ ชุดล็อคคิลเลอร์ที่มีลักษณะต่างกัน 1 ชิ้น ใช้กับ 4 ก้าน
Threaded screw M5

<table>
<thead>
<tr>
<th>Length mm (ความยาว มม.)</th>
<th>For door thickness mm (สำหรับความหนาประตู มม.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>38–43</td>
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<td>60</td>
<td>44–53</td>
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<tr>
<td>70</td>
<td>54–63</td>
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<tr>
<td>80</td>
<td>64–73</td>
</tr>
<tr>
<td>90</td>
<td>74–83</td>
</tr>
</tbody>
</table>

Material

- Steel

Supplied with

- 2 Threaded screws M5

Forend plate

<table>
<thead>
<tr>
<th>Length mm (ความยาว มม.)</th>
<th>Chrome plated matt (ที่โครเมี่ยม)</th>
<th>Brass plated polished PVD (ที่บรอนซ์พอลิช)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
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<td>917.80.968</td>
</tr>
<tr>
<td>90</td>
<td>917.80.984</td>
<td>917.80.988</td>
</tr>
</tbody>
</table>

Material

- Stainless steel

Supplied with

- 1 Forend plate
- 3 Fixing screws

Version

<table>
<thead>
<tr>
<th>Version</th>
<th>Matt (สีด้าน)</th>
<th>Brass plated polished PVD (ที่บรอนซ์พอลิช)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Square</td>
<td>–</td>
<td>917.81.098</td>
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<tr>
<td>Round</td>
<td>917.81.080</td>
<td>917.81.088</td>
</tr>
</tbody>
</table>
### Locking and Security

#### Electronic Locking System

### Striking plate

- **Material**
  - Striking plate stainless steel, deadbolt pocket plastic

- **Supplied with**
  - 1 Striking plate
  - 1 Deadbolt pocket
  - 2 Fixing screws

### Cylinder cover opener

- **Supplied with**
  - 1 Cylinder cover opener

### Cylinder cover

- **Material/Finish**
  - Steel black

---

**New products and systems:** [www.hafele.com](http://www.hafele.com)

[www.hafele.com](http://www.hafele.com)
Battery box
กล่องแบตเตอรี่

Order reference
Please order 1.5 V AA batteries separately

Supplied with
1 Square spindle DND
1 Spring

Length A mm  Door thickness mm  Cat. No.
40 38–56  917.81.801
50 57–63  917.81.802
60 64–77  917.81.803

Drilling template DT Lite
เหล็กทะลุเจาะ DT Lite

Feature
• For work preparation of mounting DT door terminal sets on wooden doors

Drilling template DT Lite
เหล็กทะลุเจาะ DT Lite

Supplied with
1 Square spindle DND
1 Spring

Length A mm  Door thickness mm  Cat. No.
40 38–56  917.81.801
50 57–63  917.81.802
60 64–77  917.81.803
Door terminal DT 210 Dialock
ระบบล็อคประตูแบบดิจิตอลแบบประตูประจำบ้าน DT 210 Dialock

Features
- Touchless activation with Tag-it™ key
- Door can be opened without a key at any time from the inside
- Blue/red LEDs for indication of locking and unlocking
- With internal thumbturn with which "Do not disturb" can be indicated on the reader module by a flashing signal
- Service life of battery: approx. 2 years, generally 10 locking cycles/day when use alkaline-manganese batteries 1.5V AA
- For door thickness: 33–108 mm

How to order door terminal DT 210
Following components are required for one door:

• 1 Door module DT 210
• 1 Mortise lock
• 2 Door handles
• 1 Striking plastic box
• 1 Single profile cylinder
• 4 Batteries
• 1 Striking plate
• 1 Mounting material

Order reference
Please order maintenance tools, programming tools and Tag-it™ cards additionally.

ESD protection up to 20,000 V (ESD = electro-static discharge)
Front foil with customised design
Suitable for use with macro programming
Logging function of opening and emergency opening processes in combination with suitable mortise lock

• ติดตั้งปิดประตูแบบดิจิตอล DT 210
• ชุดติดตั้งประตูโดยใช้สัญชี_lot-2™
• เป็นการปิดประตูโดยไม่ต้องใช้กุญแจได้ตลอดเวลา
• มีสีสันแสดงการปิดและเปิดที่ประตู
• สามารถติดตั้งได้ตลอดเวลา
• สำหรับประตูขนาด 33–108 มม.

การสั่งซื้อชุดล็อคประตูแบบดิจิตอลสั่งในแบบบัตรประจำบ้าน DT 210 ประตู 1 ชุดติดตั้งประกอบด้วยชุดประกอบดังนี้:
• ชุดติดตั้งประตูแบบดิจิตอล DT 210
• ชุดติดตั้งประตู
• ชุดจับประตู
• ชุดจับประตูติดตั้ง
• ชุดปัดป้องการปลดปล่อย
• ชุดปัดป้องการปลดปล่อย

คุณสมบัติ
- ทำงานด้วยบัตร Tag-it™ แบบไม่ซ้ำ
- เป็นการปิดประตูโดยไม่ต้องใช้กุญแจได้ตลอดเวลา
- มีสีสันแสดงการปิดและเปิดที่ประตู
- สำหรับประตูขนาด 33–108 มม.

Order reference
Please order maintenance tools, programing tools and Tag-it™ cards additionally.

ชุดอุปกรณ์ต่างๆ
- ชุดติดตั้งประตูแบบดิจิตอล DT 210
- ชุดปัดป้องการปลดปล่อย
- ชุดปัดป้องการปลดปล่อย

New products and systems: www.hafele.com
เครื่องมือและอุปกรณ์ใหม่: www.hafele.com
**Locking and Security**

**Electronic Locking System**

- Backplate external module with processor
- Backplate internal module, with thumbturn

**A Door module DT 210**

- Material:
  - Stainless steel
- Supplied with:
  1. External module with processor
  2. Internal module with thumbturn
  3. Small parts bag
- Features:
  - For single wooden doors,
  - For rebated doors (forend 20 mm) or flush doors (forend 24 mm)
  - With self-locking action and feedback

**B Mortise lock**

- Material:
  - Latchbolt malleable steel, deadbolt and lock case steel, follower malleable cast

- Features:
  - For single wooden doors,
  - For rebated doors (forend 20 mm) or flush doors (forend 24 mm)
  - With self-locking action and feedback

**Technical data**

- Deadbolt: 1-turn, forend round
- Lever follower: 8 mm
- Backset A: 55 mm
- Distance: 72 mm

**Features**

- For single wooden doors,
- For rebated doors (forend 20 mm) or flush doors (forend 24 mm)
- With self-locking action and feedback

**Material**

- Latchbolt malleable steel, deadbolt and lock case steel, follower malleable cast

**Outdoor version**

- Stainless steel
- Matt
- Brass coloured polished PVD

**Outdoor version**

- Stainless steel
- Gold coloured

**Finish**

<table>
<thead>
<tr>
<th>Finish Type</th>
<th>Indoor Version</th>
<th>Outdoor Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matt</td>
<td>917.54.500</td>
<td>917.54.520</td>
</tr>
<tr>
<td>Brass</td>
<td>917.54.508</td>
<td>917.54.528</td>
</tr>
</tbody>
</table>

**Mounting**

- DIN L: 911.17.122
- DIN R: 911.17.123

- DIN L: 911.17.128
- DIN R: 911.17.129

**Specifications**

- Deadbolt: 1-turn, forend round
- Lever follower: 8 mm
- Backset A: 55 mm
- Distance: 72 mm

**Material**

- Latchbolt malleable steel, deadbolt and lock case steel, follower malleable cast

**Features**

- For single wooden doors,
- For rebated doors (forend 20 mm) or flush doors (forend 24 mm)
- With self-locking action and feedback

**Technical data**

- Deadbolt: 1-turn, forend round
- Lever follower: 8 mm
- Backset A: 55 mm
- Distance: 72 mm

**Material**

- Latchbolt malleable steel, deadbolt and lock case steel, follower malleable cast

**Outdoor version**

- Stainless steel
- Matt
- Brass coloured polished PVD

**Outdoor version**

- Stainless steel
- Gold coloured

**Finish**

<table>
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</tr>
<tr>
<td>Brass</td>
<td>917.54.508</td>
<td>917.54.528</td>
</tr>
</tbody>
</table>

**Mounting**

- DIN L: 911.17.122
- DIN R: 911.17.123

- DIN L: 911.17.128
- DIN R: 911.17.129

**Specifications**

- Deadbolt: 1-turn, forend round
- Lever follower: 8 mm
- Backset A: 55 mm
- Distance: 72 mm

**Material**

- Latchbolt malleable steel, deadbolt and lock case steel, follower malleable cast

**Features**

- For single wooden doors,
- For rebated doors (forend 20 mm) or flush doors (forend 24 mm)
- With self-locking action and feedback
### Door handle

**Material**
- Stainless steel

**Supplied with**
- 1 Door handle (for 1 side)
- 1 Adapter C (909.09.742)

**Locking and Security**
**Electronic Locking System**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Model</th>
<th>Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.50 x 120</td>
<td>Sandra</td>
<td>Matt</td>
<td>902.30.222</td>
</tr>
<tr>
<td>0.50 x 120</td>
<td>Sofea</td>
<td>Matt</td>
<td>902.30.232</td>
</tr>
<tr>
<td>0.50 x 120</td>
<td>Saria</td>
<td>Matt</td>
<td>902.30.242</td>
</tr>
<tr>
<td>0.50 x 120</td>
<td>Sissia</td>
<td>Matt</td>
<td>902.30.370</td>
</tr>
<tr>
<td>0.50 x 120</td>
<td>Vennia</td>
<td>Matt</td>
<td>902.30.660</td>
</tr>
<tr>
<td>0.50 x 120</td>
<td>Virginia</td>
<td>Polished/matt</td>
<td>902.30.671</td>
</tr>
<tr>
<td>0.50 x 120</td>
<td>Laura</td>
<td>Polished/matt</td>
<td>902.30.292</td>
</tr>
<tr>
<td>0.50 x 120</td>
<td>Leila</td>
<td>Polished/matt</td>
<td>902.30.372</td>
</tr>
</tbody>
</table>

**Order reference**
Please order 2 pieces for one door terminal set.

**Material**
- Stainless steel

**Supplied with**
- 1 Door handle (for 1 side)
- 1 Adapter C (909.09.742)

**New products and systems:** [www.hafele.com](http://www.hafele.com)
**Electronic Locking System**

**Striking plastic box**
- กล่องพลาสติกแขวนกลอนประตู

**Features**
- Master key on request available
- With 5 pin tumblers, follower adjustable in 8 positions

**Material/Finish**
- Plastic white  911.76.060
- Plastic black  911.76.061

**Single profile cylinder**
- โซลูปญญา 1 ทาง

**Features**
- Master key on request available
- With 5 pin tumblers, follower adjustable in 8 positions

**Material/Finish**
- Plastic white  911.76.060
- Plastic black  911.76.061

**Battery AA**
- แบตเตอรี่ AA

**Note**
A lithium battery has a service life of up to 7 times longer as an alkaline-manganese battery.

**Material/Finish**
- Alkaline-manganese battery 1.5V AA  910.54.980
- Lithium battery 1.5V AA  910.54.940

**Striking plate**
- แผ่นสวิงม้า

**Material/Finish**
- Stainless steel matt  911.39.747
- Stainless steel satin  911.39.748
Locking and Security
Electronic Locking System

Material/Finish
- Spindle steel yellow galvanized, M4 threaded screw steel galvanized

Supplied with
1 Spindle
4 Threaded screws M4

Cylinder cover

Material/Finish
- Plastic black

Features
- Work preparation of wooden doors for mounting of DT 210/400 door terminal modules

Area of application
- For mounting of lever handle spindle

Drilling jig

Material/Finish
- Plastic black

Features
- Drill used for drilling preparation for mounting of DT 210/400

Locking ring pliers

Material/Finish
- Spindle steel yellow galvanized, M4 threaded screw steel galvanized

Supplied with
1 Spindle
4 Threaded screws M4

Features
- Used for mounting of lever handle spindle

Spindle
- Thread screw M4

Door thickness
Spindle mm
Thread length mm
Cat. No.

33–40
100
25
917.90.441

38–48
110
30
917.90.442

48–58
120
40
917.90.443

58–68
130
50
917.90.444

68–78
140
60
917.90.445

78–88
150
70
917.90.446

88–98
160
80
917.90.447
Door terminal DT 400 Dialock
ระบบล็อคเดล็คทอร์นิคส์แบบติดตั้งบนประตู DT 400 Dialock

Features
- Touchless activation with Tag-it™ key
- Door can be opened without a key at any time from the inside
- White/red LEDs for indication of locking and unlocking
- With internal thumbturn with which "Do not disturb" can be indicated on the reader module by a flashing signal
- Service life of battery: Approx. 55,000 locking and unlocking processes when use alkaline-manganese battery 1.5V AA
- For door thickness: 33–108 mm
- 6 level handles selection
- With real-time clock and logging of all processes
- Degree of protection: IP54
- Infrared interface for programming
- For service personnel, Indication of programming status and when battery change is required

Elegant and modern design of rose and escutcheon, no backplate set outside
Self-locking mortise lock with comfort function
Escutcheon foil for reader module with customised design, if required

How to order door terminal DT 400
Following components are required for one door:

A 1 Door module DT 400
B 1 Spindle set
C 1 Spacer plate (Necessary for slim door only.)
D 1 Mounting screw set
E 1 Rosette foil
F 1 Door handle set
G 1 Mortise lock
H 1 Profile cylinder
I 1 Striking plastic box
J 1 Striking plate
K 4 Batteries

Order reference
Please order maintenance tools, programing tools and Tag-it™ cards additionally.
Locking and Security
Electronic Locking System

A Door module DT 400

B Spindle set

Features
- For mounting of handles and mortise lock
- Version: Split 9 mm

Material/Finish
- Steel galvanized

Supplied with
1 Spindle, split, 9 mm, with threaded pin and sleeve nut
2 Grub screws for securing the aperture parts
2 Chipboard screws 4.5 x 40 mm for fixing the mortise lock

Finish
<table>
<thead>
<tr>
<th>Finish Type</th>
<th>Indoor version</th>
<th>Outdoor version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matt</td>
<td>917.46.500</td>
<td>917.46.520</td>
</tr>
<tr>
<td>Polished</td>
<td>917.46.501</td>
<td>917.46.521</td>
</tr>
<tr>
<td>Brass polished</td>
<td>917.46.508</td>
<td>917.46.528</td>
</tr>
</tbody>
</table>

Note
Only rose and escutcheon have a protection degree of IP 54 and suitable for outdoor use. Please check the installation specifications for outdoor version.

Material
- Stainless steel

Supplied with
1 Internal module as backplate
1 Reader module as escutcheon

Features
- For mounting of handles and mortise lock
- Version: Split 9 mm

Material/Finish
- Steel galvanized

Supplied with
1 Spindle, split, 9 mm, with threaded pin and sleeve nut
2 Grub screws for securing the aperture parts
2 Chipboard screws 4.5 x 40 mm for fixing the mortise lock

Cone inserted
- Screwed into the tail of the cylinder
- Screw in the cylinder housing

Features
- Screwed in the cylinder body
- Screw in the cylinder housing

Specifications
- External length of profile cylinder: 240 mm
- Internal length of profile cylinder: 180 mm
- External thickness of door: 10 mm
- Internal thickness of door: 8 mm
- Door thickness: 10 mm

<table>
<thead>
<tr>
<th>Dimension (mm)</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>15–30</td>
<td>917.90.560</td>
</tr>
<tr>
<td>23–28</td>
<td>917.90.561</td>
</tr>
<tr>
<td>38–63</td>
<td>917.90.562</td>
</tr>
<tr>
<td>45–60</td>
<td>917.90.565</td>
</tr>
</tbody>
</table>

New products and systems: www.hafele.com

We reserve the right to alter specifications and design without notice.
**Electronic Locking System**

### Spacer plate for reader module

**Feature**
- For compensation with thin door panels
- Thickness: 3 mm

**Material**
- Stainless steel

**Technical data**

If using a single profile cylinder 916.00.601 (Dim. A = 27.5 mm):
- Spacer plate for reader module with blank escutcheon foil:
  - Dim. C = 4–9 mm for inwards opening doors
  - Dim. C = 6–11 mm for outwards opening doors
- Spacer plate for reader module with PC escutcheon foil:
  - Dim. C = 10–15 mm for inwards opening doors
  - Dim. C = 12–17 mm for outwards opening doors

**Finish**

<table>
<thead>
<tr>
<th>Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matt</td>
<td>917.90.497</td>
</tr>
<tr>
<td>Polished</td>
<td>917.90.498</td>
</tr>
<tr>
<td>Brass coloured polished (PVD)</td>
<td>917.90.499</td>
</tr>
</tbody>
</table>

**Order reference**

Necessary for slim doors only.

**Apertures**

- Without PC aperture
  - Blank: 48 mm

**Material/Colour**

<table>
<thead>
<tr>
<th>Material/Colour</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC</td>
<td>917.90.070</td>
</tr>
<tr>
<td>Plastic grey</td>
<td>917.90.071</td>
</tr>
<tr>
<td>Plastic white</td>
<td>917.90.074</td>
</tr>
<tr>
<td>Blank</td>
<td>917.90.075</td>
</tr>
</tbody>
</table>

---

### Mounting screw set

**Feature**
- For mounting of modules to the door

**Material/Finish**
- Stainless steel galvanized

**Supplied with**

- 2 Screws M4 with threadlocker for level handle aperture part and internal module
- 2 Screws M4 for internal module and reader module

**Order reference**

Necessary for slim doors only.

**Apertures**

- With PC aperture
  - Blank: 48 mm

**Material/Colour**

<table>
<thead>
<tr>
<th>Material/Colour</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC</td>
<td>917.90.070</td>
</tr>
<tr>
<td>Plastic grey</td>
<td>917.90.071</td>
</tr>
<tr>
<td>Plastic white</td>
<td>917.90.074</td>
</tr>
<tr>
<td>Blank</td>
<td>917.90.075</td>
</tr>
</tbody>
</table>

---

**Rosette foil**

**Feature**
- For compensation with thin door panels
- Thickness: 3 mm

**Material/Finish**
- Stainless steel galvanized

**Supplied with**

- 2 Screws M4 with threadlocker for level handle aperture part and internal module
- 2 Screws M4 for internal module and reader module

**Order reference**

Necessary for slim doors only.

**Apertures**

- Without PC aperture
  - Blank: 48 mm

**Material/Colour**

<table>
<thead>
<tr>
<th>Material/Colour</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC</td>
<td>917.90.070</td>
</tr>
<tr>
<td>Plastic grey</td>
<td>917.90.071</td>
</tr>
<tr>
<td>Plastic white</td>
<td>917.90.074</td>
</tr>
<tr>
<td>Blank</td>
<td>917.90.075</td>
</tr>
</tbody>
</table>

---

We reserve the right to alter specifications without notice (HTH Architectural Hardware 2015).

![Image]
### Door handle set

#### Material
- Stainless steel

#### Supplied with
- 1 Door handle for internal module
- 1 Door handle with rosette

### Note
Shape and dimensions are similar as shown in illustration.

#### Material
- Stainless steel

#### Supplied with
- 1 Door handle for internal module
- 1 Door handle with rosette

### Table

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Model</th>
<th>Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L</td>
<td>Matt</td>
<td>Stainless steel</td>
<td>902.22.300</td>
</tr>
<tr>
<td></td>
<td>Polished</td>
<td>Stainless steel</td>
<td>902.22.301</td>
</tr>
<tr>
<td></td>
<td>Brass coloured polished PVD</td>
<td>Stainless steel</td>
<td>902.22.308</td>
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<tr>
<td>C</td>
<td>Matt</td>
<td>Stainless steel</td>
<td>902.22.310</td>
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<td></td>
<td>Polished</td>
<td>Stainless steel</td>
<td>902.22.311</td>
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<td></td>
<td>Brass coloured polished PVD</td>
<td>Stainless steel</td>
<td>902.22.318</td>
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<tr>
<td>U</td>
<td>Matt</td>
<td>Stainless steel</td>
<td>902.22.320</td>
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<tr>
<td></td>
<td>Polished</td>
<td>Stainless steel</td>
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<td></td>
<td>Brass coloured polished PVD</td>
<td>Stainless steel</td>
<td>902.22.328</td>
</tr>
<tr>
<td>H</td>
<td>Matt</td>
<td>Stainless steel</td>
<td>902.22.330</td>
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<td></td>
<td>Polished</td>
<td>Stainless steel</td>
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<td></td>
<td>Brass coloured polished PVD</td>
<td>Stainless steel</td>
<td>902.22.338</td>
</tr>
<tr>
<td>J</td>
<td>Matt</td>
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<td></td>
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<td>Stainless steel</td>
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<td></td>
<td>Brass coloured polished PVD</td>
<td>Stainless steel</td>
<td>902.22.348</td>
</tr>
<tr>
<td>G</td>
<td>Matt</td>
<td>Stainless steel</td>
<td>902.22.350</td>
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<td></td>
<td>Polished</td>
<td>Stainless steel</td>
<td>902.22.351</td>
</tr>
<tr>
<td></td>
<td>Brass coloured polished PVD</td>
<td>Stainless steel</td>
<td>902.22.358</td>
</tr>
</tbody>
</table>
Locking and Security
Electronic Locking System

Mortise lock

don't change to English

Door opening direction

<table>
<thead>
<tr>
<th>DIN L</th>
<th>DIN R</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inwards opening</td>
<td>Outwards opening</td>
</tr>
<tr>
<td>Guest room</td>
<td>Public area</td>
</tr>
<tr>
<td>Public area</td>
<td>Guest room</td>
</tr>
<tr>
<td>DIN L</td>
<td>DIN R</td>
</tr>
<tr>
<td>Inwards opening</td>
<td>Outwards opening</td>
</tr>
<tr>
<td>Guest room</td>
<td>Public area</td>
</tr>
<tr>
<td>Public area</td>
<td>Guest room</td>
</tr>
</tbody>
</table>

Function

Door is always locked. Opening of door from inside: The latchbolt is retracted by activating the lever handle. Opening of door from outside: Turn the key in the single profile cylinder in opening direction as far as it will go, hold and simultaneously activate lever handle.

Installation

Rebate gap 2–7 mm. Space requirement for latchbolt throw min. 20 mm.

Features

- Area of application: For single wooden doors, for rebated doors (forend 20 mm) or flush doors (forend 24 mm)
- Version: With self-locking action and feedback and certified in compliance with EN 12209

Technical data

- Deadbolt: 1-turn, forend round
- Lever follower: 9 mm
- Backset: 55 mm
- Distance: 72 mm

Material

- Forend stainless steel, latchbolt and lock case steel, lever follower malleable cast

<table>
<thead>
<tr>
<th>Forend width mm</th>
<th>Mounting</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>DIN L, outwards opening</td>
<td>911.17.501</td>
</tr>
<tr>
<td></td>
<td>DIN L, inwards opening</td>
<td>911.17.500</td>
</tr>
<tr>
<td></td>
<td>DIN R, outwards opening</td>
<td>911.17.503</td>
</tr>
<tr>
<td></td>
<td>DIN R, inwards opening</td>
<td>911.17.502</td>
</tr>
<tr>
<td>24</td>
<td>DIN L, outwards opening</td>
<td>911.17.513</td>
</tr>
<tr>
<td></td>
<td>DIN L, inwards opening</td>
<td>911.17.512</td>
</tr>
<tr>
<td></td>
<td>DIN R, outwards opening</td>
<td>911.17.515</td>
</tr>
<tr>
<td></td>
<td>DIN R, inwards opening</td>
<td>911.17.514</td>
</tr>
</tbody>
</table>

Routing height lock case min 175 mm
(height feedback 8 mm)

We reserve the right to alter specifications without notice (HTH Architectural Hardware 2015).
**Single profile cylinder for reader module**

ให้กุญแจทางเดียวสำหรับหัวอ่านมั่น

**Features**
- Master key on request available
- With 5 pin tumblers
- Follower adjustable in 8 positions

**Installation options for profile cylinder**

รูปแบบการติดตั้งให้กุญแจ

**For reader module with blank escutcheon foil**

สำหรับหัวอ่านที่ใช้แผ่นฟอยล์แบบไม่เจาะรู

<table>
<thead>
<tr>
<th>Dim. C mm</th>
<th>Mounting</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 mm spacer plate required for: Reader module with blank escutcheon foil: Dim. C = Max. 26 mm Reader module with PC escutcheon foil: Dim. C = Max. 17 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12–17</td>
<td>Inwards opening</td>
<td>916.00.601</td>
</tr>
<tr>
<td>14–18</td>
<td>Outwards opening</td>
<td>916.00.602</td>
</tr>
<tr>
<td>16–20</td>
<td>Inwards opening</td>
<td>916.00.603</td>
</tr>
<tr>
<td>18–22</td>
<td>Outwards opening</td>
<td>916.00.604</td>
</tr>
</tbody>
</table>

**Special solution for thin doors**

วิธีแก้ปัญหาสำหรับประตูที่บางมาก ๆ

**Reader module with PC escutcheon foil**

หัวอ่านที่ใช้แผ่นฟอยล์แบบเจาะรูสำหรับใส่กุญแจ PC

<table>
<thead>
<tr>
<th>Dim. C mm</th>
<th>Mounting</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10–15</td>
<td>Inwards opening</td>
<td>916.00.601</td>
</tr>
<tr>
<td>12–17</td>
<td>Outwards opening</td>
<td>916.00.602</td>
</tr>
<tr>
<td>13–18</td>
<td>Inwards opening</td>
<td>916.00.603</td>
</tr>
<tr>
<td>15–20</td>
<td>Outwards opening</td>
<td>916.00.604</td>
</tr>
<tr>
<td>17–22</td>
<td>Inwards opening</td>
<td>916.00.603</td>
</tr>
<tr>
<td>19–24</td>
<td>Outwards opening</td>
<td>916.00.604</td>
</tr>
<tr>
<td>21–26</td>
<td>Inwards opening</td>
<td>916.00.603</td>
</tr>
<tr>
<td>23–28</td>
<td>Outwards opening</td>
<td>916.00.604</td>
</tr>
</tbody>
</table>
**Locking and Security**

**Electronic Locking System**

### Striking plastic box

- **Preparation**
  1. Cut as below
  2. Keep only the deeper plastic box

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plastic white</td>
<td>911.76.060</td>
</tr>
<tr>
<td>Plastic black</td>
<td>911.76.061</td>
</tr>
</tbody>
</table>

### Striking plate

<table>
<thead>
<tr>
<th>Material Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel matt</td>
<td>911.39.322</td>
</tr>
<tr>
<td>Brass plated polished</td>
<td>911.39.323</td>
</tr>
</tbody>
</table>

### Battery AA

- **Note**
  A lithium battery has a service life of up to 7 times longer as an alkaline-manganese battery.

<table>
<thead>
<tr>
<th>Type</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkaline-manganese battery 1.5V AA</td>
<td>910.54.980</td>
</tr>
<tr>
<td>Lithium battery 1.5V AA</td>
<td>910.54.940</td>
</tr>
</tbody>
</table>

- **Order reference**
  For one door terminal set 4 pieces required.

### Drilling jig

- **Features**
  - Work preparation of wooden doors for mounting of DT 210/400 door terminal modules.

- **Type**
  - Drilling jig

<table>
<thead>
<tr>
<th>Type</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drilling jig</td>
<td>917.90.006</td>
</tr>
</tbody>
</table>
Electronic profile cylinder DT 500 Dialock

Features
• Battery operated Duracell Ultra CR2
• Intelligent locking cylinder for indoor and outdoor use, for use with Euro profile locks in compliance with DIN 18251
• Cylinder has a modular design and can be equipped with access control on one or both sides
• Touchless activation with Dialock key
• Acoustic feedback when presenting the key
• Illuminated ring for status indication:
  Green = opening, red = locking, white = idle state
• With real-time clock and logging of all processes
• Infrared interface in electronic profile cylinder for programming
• Suitable for DIN left and right

Technical data
• Suitable for door thickness: 40–90 mm

Material/Finish
• Cylinder and knob housing brass nickel plated
• Front hard plastic

Note
For changing the DT 500 reader knob the disassembly card is required. For changing the battery the battery replacement tool and battery card are required. Use batterie type Duracell Ultra CR2.

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Note
For changing the DT 500 reader knob the disassembly card is required. For changing the battery the battery replacement tool and battery card are required. Use batterie type Duracell Ultra CR2.
**A) Reader knob DT 500**

**Technical data**
- Battery life: Approx. 2 years with average frequency
- Relative humidity: 0 - 95% (non-condensation)
- Ambient temperature: -25°C - +65°C
- Degree of protection: IP 64
- Profile cylinder lengths: 25/35-40/50
- Number of possible Dialock keys: 1,000
- Log entries: 500

**Supplied with**
1 Reader knob module DT 500
2 Batteries Duracell Ultra CR2

**Order reference**
Please order internal knob and PC cylinder adapter separately.

**Note**
Disassembly is not possible.

---

**B) Internal knob**

**Material/Finish**
- Brass stainless steel polished

**Technical data**
- Diameter mm: 29, 34

**Supplied with**
1 Reader knob module DT 500
2 Batteries Duracell Ultra CR2
Locking and Security
Electronic Locking System
HÄFELE

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New products and systems: www.hafele.com

Locking and Security
Electronic Locking System

PC Cylinder adapter

Material/Finish
- Brass nickel plated

Note
If dimension C is less than 60 mm, only 1 electronic set can be used with double cylinder adapter.

Calculation for determining the cylinder adapter

Length
External side: Dim. A = X1 + 6.5 mm
Internal side: Dim. B = X2 + 8.0 mm

Table:

<table>
<thead>
<tr>
<th>Dim. A mm</th>
<th>Dim. B mm</th>
<th>Dim. C mm</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>35</td>
<td>60</td>
<td>917.93.203</td>
</tr>
<tr>
<td>30</td>
<td>30</td>
<td>60</td>
<td>917.93.207</td>
</tr>
<tr>
<td>35</td>
<td>35</td>
<td>65</td>
<td>917.93.208</td>
</tr>
<tr>
<td>45</td>
<td>40</td>
<td>70</td>
<td>917.93.209</td>
</tr>
<tr>
<td>50</td>
<td>40</td>
<td>80</td>
<td>917.93.211</td>
</tr>
<tr>
<td>35</td>
<td>35</td>
<td>70</td>
<td>917.93.213</td>
</tr>
<tr>
<td>40</td>
<td>40</td>
<td>75</td>
<td>917.93.214</td>
</tr>
<tr>
<td>45</td>
<td>40</td>
<td>80</td>
<td>917.93.215</td>
</tr>
<tr>
<td>40</td>
<td>40</td>
<td>80</td>
<td>917.93.218</td>
</tr>
<tr>
<td>45</td>
<td>40</td>
<td>85</td>
<td>917.93.219</td>
</tr>
<tr>
<td>50</td>
<td>40</td>
<td>90</td>
<td>917.93.220</td>
</tr>
</tbody>
</table>

Single cylinder adapter

Material/Finish
- Stainless steel matt

Supplied with
1 Escutcheon outside DT 500
2 Threaded screws M5 x 50

Order reference
Please order for other door thicknesses different screws (2 pcs.).

Counter sunk screw M5 for PC cylinder
in compliance with ISO 7046

Material/Finish
- Stainless steel matt

Supplied with
1 Escutcheon outside DT 500
1 Escutcheon inside

Order reference
Please order for other door thicknesses different screws (2 pcs.).

Security escutcheon DT 500

Material/Finish
- Stainless steel matt

For door thickness mm
40-45 917.93.380
45-50 909.75.101
50-55 909.75.102
55-60 909.75.103
60-65 909.75.104
65-70 909.75.105
70-75 909.75.106
75-80 909.75.107
80-85 909.75.108
85-90 909.75.109
90-95 909.75.110
95-100 909.75.111

Accessories for processing and installation

Security escutcheon DT 500

Material/Finish
- Stainless steel matt

Supplied with
1 Escutcheon outside DT 500
1 Escutcheon inside

Order reference
Please order for other door thicknesses different screws (2 pcs.).

Counter sunk screw M5 for PC cylinder
in compliance with ISO 7046

Material/Finish
- Stainless steel matt

Supplied with
1 Escutcheon outside DT 500
1 Escutcheon inside

Order reference
Please order for other door thicknesses different screws (2 pcs.).

Counter sunk screw M5 for PC cylinder
in compliance with ISO 7046

Material/Finish
- Stainless steel matt

Supplied with
1 Escutcheon outside DT 500
1 Escutcheon inside

Order reference
Please order for other door thicknesses different screws (2 pcs.).

Counter sunk screw M5 for PC cylinder
in compliance with ISO 7046

Material/Finish
- Stainless steel matt

Supplied with
1 Escutcheon outside DT 500
1 Escutcheon inside

Order reference
Please order for other door thicknesses different screws (2 pcs.).

Counter sunk screw M5 for PC cylinder
in compliance with ISO 7046

Material/Finish
- Stainless steel matt

Supplied with
1 Escutcheon outside DT 500
1 Escutcheon inside

Order reference
Please order for other door thicknesses different screws (2 pcs.).

Counter sunk screw M5 for PC cylinder
in compliance with ISO 7046

Material/Finish
- Stainless steel matt

Supplied with
1 Escutcheon outside DT 500
1 Escutcheon inside

Order reference
Please order for other door thicknesses different screws (2 pcs.).

Counter sunk screw M5 for PC cylinder
in compliance with ISO 7046

Material/Finish
- Stainless steel matt

Supplied with
1 Escutcheon outside DT 500
1 Escutcheon inside

Order reference
Please order for other door thicknesses different screws (2 pcs.).

Counter sunk screw M5 for PC cylinder
in compliance with ISO 7046

Material/Finish
- Stainless steel matt

Supplied with
1 Escutcheon outside DT 500
1 Escutcheon inside

Order reference
Please order for other door thicknesses different screws (2 pcs.).
Maintenance tools and batteries

Battery CR2 3V lithium (2 pcs.)
Cat. No. 910.54.960

For removing the knob housing when battery change is required

Battery replacement tool
Cat. No. 917.93.390

External power supply for profile cylinder DT 500

Emergency power supply tool
Cat. No. 917.93.391

Order reference
Please order the 9V battery block (910.54.981) separately.

Supplied with

Repair kit:
5 Couplings, right
5 Couplings, left
5 Sealing rings
5 Stop slides
10 Springs for stop slides
5 Nuts

Repair tool:
1 Mounting rod

Repair kit
Cat. No. 917.93.392

Repair tool
Cat. No. 917.93.393
Battery card

Features
- For changing battery
- After pressing the battery card, the locking lugs on the knob housing can be pushed in with the battery replacement tool

Material
- Plastic

Supplied with
1 Battery card

Features
- For removing reader knob DT 500
- After pressing the disassembly card the reader knob DT 500 can be removed from the cylinder

Material
- Plastic

Supplied with
1 Disassembly card
Locking and Security
Electronic Locking System
อุปกรณ์ล็อกและอุปกรณ์เสริม
ระบบกุญแจอิเลคทรอนิกส์

Door terminal DT 600 Dialock
ระบบล็อกอิเล็กทรอนิกส์แบบได้กุญแจบ้านประหลาด DT 600 Dialock

Features
- Suitable for interior doors
- Touchless activation with Tag-it™ key
- Door can be opened without a key at any time from inside
- Blue/red LEDs for indication of locking and unlocking
- Service life of battery: Approx. 30,000 locking and unlocking processes when using alkaline-manganese batteries 1.5V AA
- With real-time clock and logging of all processes
- Infrared interface for programming
- For service personnel, indication of programming status and when battery change is required
- Mechanical emergency opening is possible

Technical data
- For spindle: 8 mm
- Distance: 72 mm
- For door thickness: 41–91 mm
- Degree of protection: IP40

Material/Finish
- Housing stainless steel matt, reader plastic black

Technical data

A External length of profile cylinder (A1 + A2)
ความยาวigkeitล็อกวงปร่งตัว (A1 + A2)

A1 External thickness of door frame
ความหนาแน่นของประตูแผนกตัวเครื่อง

A2 Thickness of external module = 23 mm
ความหนาแน่นของถอดชุดภายนอก = 23 มม.

B Internal length of profile cylinder (B1 + B2)
ความยาวigkeitล็อกวงปร่งตัว (B1 + B2)

B1 Internal thickness of door frame
ความหนาแน่นของประตูแผนกตัวเครื่อง

B2 Thickness of internal module = 10 mm
ความหนาแน่นของถอดชุดภายนอก = 10 มม.

A = A1 + 23 mm
B = B1 + 10 mm

Selection of profile cylinder depends on thickness A1 and B1
การเลือกให้กุญแจวงปร่งตัวให้เหมาะสมกับ A1 และ B1

Slim design
Macros for function extension on request available
รูปทรงข้างใน
สามารถใช้กุญแจวงปร่งตัวตามความต้องการได้
Module DT Lite

Чуллоо дүүрэг DT Lite

Note

The module is suitable with lever handle Sandra only.

Determining lever handle and opening direction

The opening direction inwards or outwards must be selected with the mortise lock.

Mounting material

Technical data

Material/Finish:
- Spindle: 8 mm
- Spindle steel yellow galvanized, screw steel galvanized

Supplied with
- 1 Spindle
- 3 Threaded screws, M4
- 2 grup screws for door handle

Spindle mm: 100, 110, 120, 130, 140, 150
Cat. No.: 917.90.500, 917.90.501, 917.90.502, 917.90.503, 917.90.504, 917.90.505
Locking and Security
Electronic Locking System

© Mortise cylinder lock
คลังปุกุญแจระบบโมร์ทิตล็อค

Features
• For flush or rebated timber doors
• Latch operated with lever handle or key action
• Deadbolt operated with profile cylinder
• Reversible latch
• Tested to EN 12209
• Tested according to CE

Technical data
• Deadbolt: 2-turn
• Lever follower: 8 mm
• Distance (b): 72 mm, backset (a): 56 mm

Material/Finish
• Forend stainless steel matt (304), latch, dead bolt and follower solid stainless steel alloy, lock case steel galvanized

Description
• Suitable for flush or rebated timber doors
• Latch operated with lever handle or key action
• Deadbolt operated with profile cylinder
• Reversible latch
• Tested to EN 12209
• Tested according to CE

Version

<table>
<thead>
<tr>
<th>Version</th>
<th>Cat. No.</th>
<th>Forend 20 mm</th>
<th>Forend 24 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forend 20 mm</td>
<td>911.02.151</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Forend 24 mm</td>
<td>911.02.153</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Mortise cylinder lock

Features
- For rebated or flush wooden doors
- Latch operated with lever handle or key action
- Deadbolt operated with profile cylinder
- With closing spring preventing the latchbolt of pushing back, e.g. by a credit card
- With Quiet-Comfort equipment for quiet closing of the door

Technical data
- Deadbolt: 2-turn
- Lever follower: 8 mm
- Distance (b): 72 mm, backset (a): 56 mm

Material
- Forend stainless steel, latch and dead bolt zinc alloy, closing spring latchbolt and lock case steel, follower brass

Specifications
- Forend width 20 mm for rebated doors
- Forend width 24 mm for rebated doors
- Striking plate

Material/Finish
- Stainless steel matt

New products and systems: www.hafele.com

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### Door handle

#### Material
- Stainless steel

#### Supplied with
1 Door handle (for 1 side)
1 Adapter (909.09.742)

### Material
- Stainless steel

#### Supplied with
- 1 Door handle (for 1 side)
- 1 Adapter (909.09.742)

### Locking and Security

#### Electronic Locking System

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Model</th>
<th>Finish</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><a href="#">Sandra</a></td>
<td>Matt</td>
<td>902.30.222</td>
</tr>
<tr>
<td></td>
<td><a href="#">Sofea</a></td>
<td>Matt</td>
<td>902.30.232</td>
</tr>
<tr>
<td></td>
<td><a href="#">Saria</a></td>
<td>Matt</td>
<td>902.30.242</td>
</tr>
<tr>
<td></td>
<td><a href="#">Sissia</a></td>
<td>Matt</td>
<td>902.30.370</td>
</tr>
<tr>
<td></td>
<td><a href="#">Vennia</a></td>
<td>Matt</td>
<td>902.30.660</td>
</tr>
<tr>
<td></td>
<td><a href="#">Virginia</a></td>
<td>Polished/matt</td>
<td>902.30.671</td>
</tr>
<tr>
<td></td>
<td><a href="#">Laura</a></td>
<td>Polished/matt</td>
<td>902.30.292</td>
</tr>
<tr>
<td></td>
<td><a href="#">Leila</a></td>
<td>Polished/matt</td>
<td>902.30.372</td>
</tr>
</tbody>
</table>

**Order reference**

Please order 2 pieces for one door terminal set.

กรุณาสั่งซื้อ 2 ชิ้น สำหรับชุดติดต่อกลไกทางนินท์ 1 ชุด

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*We reserve the right to alter specifications without notice (HTH Architectural Hardware 2015).*
### Double profile cylinder StarTec

#### Features
- Master key on request available
- With 5 pin tumblers
- Brass nickel plated

#### Supplied with
- 1 Double profile cylinder
- 3 Keys
- 1 Fastening screw

#### Specifications

<table>
<thead>
<tr>
<th>Length A mm</th>
<th>Length B mm</th>
<th>Length C mm</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>27.5</td>
<td>27.5</td>
<td>55</td>
<td>916.00.001</td>
</tr>
<tr>
<td>31.5</td>
<td>35.5</td>
<td>59</td>
<td>916.00.002</td>
</tr>
<tr>
<td>35.5</td>
<td>40.5</td>
<td>63</td>
<td>916.00.003</td>
</tr>
<tr>
<td>40.5</td>
<td>45.5</td>
<td>68</td>
<td>916.00.004</td>
</tr>
<tr>
<td>45.5</td>
<td></td>
<td>73</td>
<td>916.00.005</td>
</tr>
</tbody>
</table>

### Battery AA

#### Note
A lithium battery has a service life of up to 7 times longer as an alkaline-manganese battery.

#### Order reference
For one door terminal set 2 pieces required.

<table>
<thead>
<tr>
<th>Type</th>
<th>Cat. No.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkaline-manganese battery 1.5V AA</td>
<td>910.54.980</td>
<td></td>
</tr>
<tr>
<td>Lithium battery 1.5V AA</td>
<td>910.54.940</td>
<td></td>
</tr>
</tbody>
</table>

#### Features
- 1 Double profile cylinder
- 3 Keys
- 1 Fastening screw

#### Order reference
For one door terminal set 2 pieces required.

<table>
<thead>
<tr>
<th>Type</th>
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</tr>
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<td>Lithium battery 1.5V AA</td>
<td>910.54.940</td>
<td></td>
</tr>
</tbody>
</table>

**New products and systems:** [www.hafele.com](http://www.hafele.com)
Wall terminal set WT 100 Dialock

Features
- For outdoor and indoor use, e.g. car park barriers, gates and any type of door equipment and furniture, lighting, alarm systems, video surveillance
- Red/green LEDs for indication of the activation status.
- Infrared interface in wall reader for programming
- With integrated real-time clock for programming time restricted locking authorisations (setting of time zones)
- Logging of all processes.
- With RS232 for optional networking via online sets
- With 4 input ports for analysing input signals (e.g. reed contact for door monitoring)
- Optional extension of functions by means of additional macro software Version

Material/Finish
- Wall reader housing plastic anthracite/silver coloured
- Electronic control unit housing plastic light grey

Supplied with
1 Wall reader in standard design with frame
1 Electronic control with housing for hat rail installation

Specifications
- Wall terminal set WT 100 Dialock

Required space for flush mounted box

Electronic control unit

Technology

<table>
<thead>
<tr>
<th>Technology</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tag-it™ ISO</td>
<td>917.41.004</td>
</tr>
</tbody>
</table>
## Technical data

<table>
<thead>
<tr>
<th>Protection class</th>
<th>Wall reader</th>
<th>Ambient temperature (operation)</th>
<th>-20 – +70°C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Electronic control unit</td>
<td>Ambient temperature (operation)</td>
<td>-20 – +70°C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Power supply</td>
<td>Via electronic control unit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Connection screw terminals mm²</td>
<td>1.0</td>
</tr>
</tbody>
</table>

### Electronic Locking System

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>J-Y (St) Y 2 x 2 x 0.8 mm (twisted pair, shielded), max. length 35 m (Tag-it™ ISO)</td>
</tr>
<tr>
<td>Current input</td>
<td>Max. continuous current intake mA 150</td>
</tr>
<tr>
<td></td>
<td>Max. peak current use mA 300</td>
</tr>
<tr>
<td>Contact rating of relays</td>
<td>Max. voltage 60 V DC or 125 V AC</td>
</tr>
<tr>
<td></td>
<td>Max. switching current (short-term) A 2.0</td>
</tr>
<tr>
<td></td>
<td>Max. switching capacity (chassis) 30 W or 60 VA</td>
</tr>
<tr>
<td>Min. data storage in the event of a power failure years</td>
<td>10</td>
</tr>
<tr>
<td>Relative humidity non-condensating</td>
<td>0-95%</td>
</tr>
<tr>
<td>Connection screw terminals mm²</td>
<td>2.5</td>
</tr>
</tbody>
</table>

### Technical reference

- Connection between wall reader and electronic control unit with four core installation cable in compliance with VDE 0815: Type J-Y (St) Y 2 x 2 x 0.8 mm (twisted pair, shielded), max. length 35 m (Tag-it™ ISO).
- Please contact Dialock specialist for other lengths.
- Installation of wall readers in flush mounted box with 2 device fastening screws with 15 mm distance (60 mm in compliance with DIN).
- Make sure the fastening points on the flush box are horizontal.
- Minimum distance between 2 wall readers 250 mm.
- Installation of wall reader in metal surrounds must be planned.
Additional wall reader on opposite side

Technical reference

- When using an additional wall reader the total cable length of two wall readers should not exceed 35 m, (please contact our Dialock specialist for other lengths).
- Installation of wall readers in flush mounted box with 2 device fastening screws with 15 mm distance (60 mm in compliance with DIN)
- Make sure that the fastening points on the flush box are horizontal
- Minimum distance between 2 wall readers 250 mm
- Installation of wall reader in metal surroundings must be planned

Features

- Using with WT Wall terminal set WT 100
- Protection of door on both sides (inside and outside), with identical access authorisations.

Supplied with

1 Wall reader WT 100
1 Parameter card no.20 (for addressing the wall reader)

Technical reference

- When using an additional wall reader the total cable length of two wall readers should not exceed 35 m, (please contact our Dialock specialist for other lengths).
- Installation of wall readers in flush mounted box with 2 device fastening screws with 15 mm distance (60 mm in compliance with DIN)
- Make sure that the fastening points on the flush box are horizontal
- Minimum distance between 2 wall readers 250 mm
- Installation of wall reader in metal surroundings must be planned

Features

- Using with WT Wall terminal set WT 100
- Protection of door on both sides (inside and outside), with identical access authorisations.

Supplied with

1 Wall reader WT 100
1 Parameter card no.20 (for addressing the wall reader)
Locking and Security
Electronic Locking System

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New products and systems: www.hafele.com
ณสินค้าใหม่และระบบใหม่: www.hafele.com
Wall terminal set WT 100 MOT Dialock

Features
- For outdoor and indoor use:
  - Wall terminal set WT 100 MOT for controlling lifts and lighting
  - Wall terminal set WT 100 MOT for MLA 8 for controlling locker systems, equipment and furniture
- Tag-it™ ISO processor
- Red/green LEDs for indication of the activation status.
- Infrared interface in wall reader for programming
- With integrated real-time clock for programming time restricted locking authorisations (setting of time zones)
- Logging of all processes,
- With RS232 for optional networking via online sets
- With 4 input ports for analysing input signals
- Optional extension of functions by means of additional macro software

Material/Finish
- Wall reader housing plastic anthracite/silver coloured
- Electronic control unit housing plastic light grey

Supplied with
1 Wall reader in standard design with frame
1 Electronic control with housing for hat rail installation

Order reference
When using wall terminal set WT 100 MOT for MLA 8 a parameter card No. 89 (917.42.122) will be required.

Wall reader
Wall terminal set WT 100 MOT for MLA 8

Electronic control unit

Required space for flush mounted box

Wall terminal set WT 100 MOT for MLA 8

Order reference
When using wall terminal set WT 100 MOT for MLA 8 a parameter card No. 89 (917.42.122) will be required.

Wall terminal set WT 100 MOT for MLA 8

Features
- For outdoor and indoor use:
  - Wall terminal set WT 100 MOT for controlling lifts and lighting
  - Wall terminal set WT 100 MOT for MLA 8 for controlling locker systems, equipment and furniture
- Tag-it™ ISO processor
- Red/green LEDs for indication of the activation status.
- Infrared interface in wall reader for programming
- With integrated real-time clock for programming time restricted locking authorisations (setting of time zones)
- Logging of all processes,
- With RS232 for optional networking via online sets
- With 4 input ports for analysing input signals
- Optional extension of functions by means of additional macro software

Material/Finish
- Wall reader housing plastic anthracite/silver coloured
- Electronic control unit housing plastic light grey

Supplied with
1 Wall reader in standard design with frame
1 Electronic control with housing for hat rail installation

Order reference
When using wall terminal set WT 100 MOT for MLA 8 a parameter card No. 89 (917.42.122) will be required.

Wall reader
Wall terminal set WT 100 MOT for MLA 8

Electronic control unit

Required space for flush mounted box

Wall terminal set WT 100 MOT for MLA 8

Order reference
When using wall terminal set WT 100 MOT for MLA 8 a parameter card No. 89 (917.42.122) will be required.
**Technical data**

### Wall reader

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protection class</td>
<td>IP65</td>
</tr>
<tr>
<td>Ambient temperature (operation)</td>
<td>-20 – +70°C</td>
</tr>
<tr>
<td>Power supply</td>
<td>Via electronic control unit</td>
</tr>
<tr>
<td>Connection screw terminals mm²</td>
<td>1.0</td>
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</tbody>
</table>

### Electronic control unit

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protection class</td>
<td>IP20</td>
</tr>
<tr>
<td>Ambient temperature (operation)</td>
<td>-20 – +70°C</td>
</tr>
<tr>
<td>Power supply</td>
<td>9–40 V DC or 8–36 V AC</td>
</tr>
<tr>
<td>Current input</td>
<td>150 mA</td>
</tr>
<tr>
<td>Max. continuous current intake mA</td>
<td>150</td>
</tr>
<tr>
<td>Max. peak current use mA</td>
<td>300</td>
</tr>
<tr>
<td>Contact rating of relays</td>
<td></td>
</tr>
<tr>
<td>Max. voltage</td>
<td>60 V DC or 125 V AC</td>
</tr>
<tr>
<td>Max. switching current (short-term) A</td>
<td>2.0</td>
</tr>
<tr>
<td>Max. switching capacity</td>
<td>30 W or 60 VA</td>
</tr>
<tr>
<td>Max. current input</td>
<td></td>
</tr>
<tr>
<td>Min. data storage in the event of a powerfailure years</td>
<td>10</td>
</tr>
<tr>
<td>Relative humidity non-condensating</td>
<td>0–95%</td>
</tr>
<tr>
<td>Connection screw terminals mm²</td>
<td>2.5</td>
</tr>
</tbody>
</table>

### Technical reference

- Connection between wall reader and electronic control with four core installation cable in compliance with VDE 0815: Type J-Y (Sil Y2x2x0.8 mm (twisted pair, shielded), max. length 35 m
- Please contact our Dialock specialist for other lengths
- Installation of wall readers in flush mounted box with 2 device fastening screws in 15 mm distance (60 mm in compliance with DIN)
- Make sure the fastening points on the flush box are horizontal
- Minimum distance between 2 wall readers 250 mm
- Installation of wall reader in metal surroundings must be planned
- Programming during standalone operation is not possible
- Planning by Dialock specialist is required
- EFL 3, EFL 6, FLC furniture locks can be connected to the MLA 8
- MLA 8R with relay output ports is usable for any electrical load, e.g. elevator

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New products and systems: [www.hafele.com](http://www.hafele.com)

Locking and Security

Electronic Locking System

HAFELE

Oุปกรณ์สินิคและอุปกรณ์เสริม

ระบบที่มุ่ยเจลล์เทอร์นิค

-we reserve the right to alter specifications without notice (HTH Architectural Hardware 2015).
Locking and Security
Electronic Locking System
(HÄFELE Architectural Hardware 2015)

Wall terminal set WT 140 Gira Dialock
ชุดควบคุมการล็อคเดลกอร์นิชแบบติดตั้งแนวนอน WT 140 Gira Dialock

Features
- For outdoor and indoor use as car park barriers, gates and any type of doors
- Red/green LEDs for indication of the activation status
- Infrared interface in wall reader for programming
- With integrated real-time clock for programming time restricted locking authorisations (setting of time zones)
- Logging of all processes
- With RS232 for optional networking via online sets
- Optional extension of functions by means of additional macrossoftware
- Different combinations of frame with all available colors of Gira System 55
- Macros for function extension on request

Material/Finish
- Wall reader housing plastic anthracite/silver coloured
- Electronic control unit housing plastic light grey

Supplied with
1 Wall reader WT 140 Gira without Gira frame
1 Electronic control with housing for hat rail installation

Design example:
Wall reader with Gira Esprit black glass frame with optional information symbols for hotels

Electronic control unit
ชุดควบคุมอิเล็กทรอนิกส์
Technical data

Wall reader

<table>
<thead>
<tr>
<th>Protection class</th>
<th>1P65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient temperature (operation)</td>
<td>-20 – +70°C</td>
</tr>
<tr>
<td>Power supply</td>
<td>Via electronic control unit</td>
</tr>
<tr>
<td>Connection screw terminals mm²</td>
<td>0.5</td>
</tr>
</tbody>
</table>

Electronic control unit

<table>
<thead>
<tr>
<th>Protection class</th>
<th>1P20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient temperature (operation)</td>
<td>-20 – +70°C</td>
</tr>
<tr>
<td>Power supply</td>
<td>9–40 V DC or 8–36 V AC</td>
</tr>
<tr>
<td>Current input</td>
<td>Max. continuous current intake mA 150</td>
</tr>
<tr>
<td></td>
<td>Max. peak current use mA 300</td>
</tr>
<tr>
<td></td>
<td>Contact rating of relays</td>
</tr>
<tr>
<td></td>
<td>Max. voltage 60 V DC or 125 V AC, 60 V DC or 125 V AC</td>
</tr>
<tr>
<td></td>
<td>Max. switching current (short-term) A 2.0</td>
</tr>
<tr>
<td></td>
<td>Max. switching capacity 30 W or 60 VA</td>
</tr>
<tr>
<td></td>
<td>Max. continuous current A 1.0</td>
</tr>
</tbody>
</table>

Technical reference

- Connection between wall reader and electronic control unit with four core installation cable in compliance with VDE 0815: Type J-Y (St) Y 2 x 2 x 0.8 mm (twisted pair, shielded), max. length 35 m (Tag-it™ ISO).
- Please contact Dialock specialist for other lengths.
- Installation of wall readers in flush mounted box with 2 device fastening screws with 15 mm distance (60 mm in compliance with DIN).
- Make sure the fastening points on the flush box are horizontal.
- Minimum distance between 2 wall readers 250 mm.
- Installation of wall reader in metal surroundings must be planned.

Contact information:

New products and systems: www.hafele.com

Locking and Security System

Electronic Locking System

Protection class

Wall reader

<table>
<thead>
<tr>
<th>Protection class</th>
<th>1P65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient temperature (operation)</td>
<td>-20 – +70°C</td>
</tr>
<tr>
<td>Power supply</td>
<td>Via electronic control unit</td>
</tr>
<tr>
<td>Connection screw terminals mm²</td>
<td>0.5</td>
</tr>
</tbody>
</table>

Electronic control unit

<table>
<thead>
<tr>
<th>Protection class</th>
<th>1P20</th>
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</thead>
<tbody>
<tr>
<td>Ambient temperature (operation)</td>
<td>-20 – +70°C</td>
</tr>
<tr>
<td>Power supply</td>
<td>9–40 V DC or 8–36 V AC</td>
</tr>
<tr>
<td>Current input</td>
<td>Max. continuous current intake mA 150</td>
</tr>
<tr>
<td></td>
<td>Max. peak current use mA 300</td>
</tr>
<tr>
<td></td>
<td>Contact rating of relays</td>
</tr>
<tr>
<td></td>
<td>Max. voltage 60 V DC or 125 V AC, 60 V DC or 125 V AC</td>
</tr>
<tr>
<td></td>
<td>Max. switching current (short-term) A 2.0</td>
</tr>
<tr>
<td></td>
<td>Max. switching capacity 30 W or 60 VA</td>
</tr>
<tr>
<td></td>
<td>Max. continuous current A 1.0</td>
</tr>
</tbody>
</table>

Technical reference

- Connection between wall reader and electronic control unit with four core installation cable in compliance with VDE 0815: Type J-Y (St) Y 2 x 2 x 0.8 mm (twisted pair, shielded), max. length 35 m (Tag-it™ ISO).
- Please contact Dialock specialist for other lengths.
- Installation of wall readers in flush mounted box with 2 device fastening screws with 15 mm distance (60 mm in compliance with DIN).
- Make sure the fastening points on the flush box are horizontal.
- Minimum distance between 2 wall readers 250 mm.
- Installation of wall reader in metal surroundings must be planned.
**Additional wall reader on opposite side**

Haupénamüdsæt særfræðiment sem dæmin til ysti.

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**Technical reference**

- When using an additional wall reader the total cable length of two wall readers should not exceed 35 m.
- Please contact our Dialock specialist with other lengths.
- Installation of wall readers in flush mounted box with 2 device fastening screws with 15 mm distance (60 mm in compliance with DIN).
- Make sure the fastening points on the flush box are horizontal.
- Minimum distance between 2 wall readers 250 mm.
- Installation of wall reader in metal surroundings must be planned.

**Features**

- Using with WT Wall terminal set WT 140 Gira.
- Protection of door on both sides (inside and outside), with identical access authorisations.

**Supplied with**

1 Wall reader WT 140 Gira
1 Parameter card no. 20 (for addressing the wall reader)

---

**Gira frames System 55 – E2**

### Colour

<table>
<thead>
<tr>
<th>Colour</th>
<th>1-gang</th>
<th>2-gang</th>
</tr>
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<tbody>
<tr>
<td>Pure white glossy</td>
<td>985.50.017</td>
<td>985.50.027</td>
</tr>
<tr>
<td>Pure white silk matt</td>
<td>985.50.016</td>
<td>985.50.026</td>
</tr>
<tr>
<td>Aluminium coloured</td>
<td>985.50.019</td>
<td>985.50.029</td>
</tr>
<tr>
<td>Anthracite</td>
<td>985.50.015</td>
<td>985.50.025</td>
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</tbody>
</table>
### Locking and Security
### Electronic Locking System

#### Gira frames System 55 – Event Opaque

<table>
<thead>
<tr>
<th>Colour</th>
<th>1-gang</th>
<th>2-gang</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mint色</td>
<td>912.08.710</td>
<td>912.08.720</td>
</tr>
<tr>
<td>Blue色</td>
<td>912.08.718</td>
<td>912.08.728</td>
</tr>
<tr>
<td>Red色</td>
<td>912.08.719</td>
<td>912.08.729</td>
</tr>
<tr>
<td>Orange色</td>
<td>912.08.716</td>
<td>912.08.726</td>
</tr>
<tr>
<td>White色</td>
<td>912.08.717</td>
<td>912.08.727</td>
</tr>
<tr>
<td>Amber colour色</td>
<td>912.08.712</td>
<td>912.08.722</td>
</tr>
<tr>
<td>Dark brown色</td>
<td>912.08.711</td>
<td>912.08.721</td>
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</table>

#### Anthracite colour色 central inserts

<table>
<thead>
<tr>
<th>Colour</th>
<th>1-gang</th>
<th>2-gang</th>
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</thead>
<tbody>
<tr>
<td>Mint色</td>
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<td>912.08.740</td>
</tr>
<tr>
<td>Blue色</td>
<td>912.08.738</td>
<td>912.08.748</td>
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<tr>
<td>Red色</td>
<td>912.08.739</td>
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<tr>
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<td>912.08.736</td>
<td>912.08.746</td>
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<tr>
<td>White色</td>
<td>912.08.737</td>
<td>912.08.747</td>
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<tr>
<td>Amber colour色</td>
<td>912.08.732</td>
<td>912.08.742</td>
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<tr>
<td>Dark brown色</td>
<td>912.08.731</td>
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#### Aluminium colour色 central inserts

<table>
<thead>
<tr>
<th>Colour</th>
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</thead>
<tbody>
<tr>
<td>Mint色</td>
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<td>912.08.760</td>
</tr>
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<td>Blue色</td>
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<td>912.08.768</td>
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<td>Red色</td>
<td>912.08.759</td>
<td>912.08.769</td>
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<td>Orange色</td>
<td>912.08.756</td>
<td>912.08.766</td>
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<tr>
<td>White色</td>
<td>912.08.757</td>
<td>912.08.767</td>
</tr>
<tr>
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<tr>
<td>Dark brown色</td>
<td>912.08.751</td>
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#### Gira frames System 55 – Event Clear

<table>
<thead>
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<tbody>
<tr>
<td>White色</td>
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<td>Black色</td>
<td>912.08.813</td>
<td>912.08.823</td>
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<tr>
<td>Green色</td>
<td>912.08.810</td>
<td>912.08.820</td>
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<tr>
<td>Brown色</td>
<td>912.08.811</td>
<td>912.08.821</td>
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<tr>
<td>Aubergine色</td>
<td>912.08.819</td>
<td>912.08.829</td>
</tr>
<tr>
<td>Sand colour色</td>
<td>912.08.814</td>
<td>912.08.824</td>
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#### Anthracite colour色 central inserts

<table>
<thead>
<tr>
<th>Colour</th>
<th>1-gang</th>
<th>2-gang</th>
</tr>
</thead>
<tbody>
<tr>
<td>White色</td>
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<td>912.08.847</td>
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<tr>
<td>Black色</td>
<td>912.08.833</td>
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<tr>
<td>Green色</td>
<td>912.08.830</td>
<td>912.08.840</td>
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<tr>
<td>Brown色</td>
<td>912.08.831</td>
<td>912.08.841</td>
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<tr>
<td>Aubergine色</td>
<td>912.08.839</td>
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<tr>
<td>Sand colour色</td>
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#### Aluminium colour色 central inserts

<table>
<thead>
<tr>
<th>Colour</th>
<th>1-gang</th>
<th>2-gang</th>
</tr>
</thead>
<tbody>
<tr>
<td>White色</td>
<td>912.08.857</td>
<td>912.08.867</td>
</tr>
<tr>
<td>Black色</td>
<td>912.08.853</td>
<td>912.08.863</td>
</tr>
<tr>
<td>Green色</td>
<td>912.08.850</td>
<td>912.08.860</td>
</tr>
<tr>
<td>Brown色</td>
<td>912.08.851</td>
<td>912.08.861</td>
</tr>
<tr>
<td>Aubergine色</td>
<td>912.08.859</td>
<td>912.08.869</td>
</tr>
<tr>
<td>Sand colour色</td>
<td>912.08.854</td>
<td>912.08.864</td>
</tr>
</tbody>
</table>
**Gira frames System 55 – Esprit**

- Mint glass คราฟท์ลิก
- White glass กระจกสีขาว
- Black glass กระจกสีดำ
- Aluminium coloured สีอลูมิเนียม
- Brass plated สีทองเหลือง
- Chrome plated สีโครเมี่ยม
- Wenge wood ไม้เวงเก

<table>
<thead>
<tr>
<th>Colour สี</th>
<th>1-gang 1 ช่อง</th>
<th>2-gang 2 ช่อง</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mint glass คราฟท์ลิก</td>
<td>912.08.610</td>
<td>912.08.620</td>
</tr>
<tr>
<td>White glass กระจกสีขาว</td>
<td>912.08.617</td>
<td>912.08.627</td>
</tr>
<tr>
<td>Black glass กระจกสีดำ</td>
<td>912.08.613</td>
<td>912.08.623</td>
</tr>
<tr>
<td>Aluminium coloured สีอลูมิเนียม</td>
<td>912.08.619</td>
<td>912.08.629</td>
</tr>
<tr>
<td>Brass plated สีทองเหลือง</td>
<td>912.08.615</td>
<td>912.08.625</td>
</tr>
<tr>
<td>Chrome plated สีโครเมี่ยม</td>
<td>912.08.614</td>
<td>912.08.624</td>
</tr>
<tr>
<td>Wenge wood ไม้เวงเก</td>
<td>912.08.618</td>
<td>912.08.626</td>
</tr>
</tbody>
</table>

**Gira frames System 55 – E22**

- Pure white ขาว
- Aluminium coloured สีอลูมิเนียม
- Stainless steel coloured สีเหล็ก

<table>
<thead>
<tr>
<th>E22</th>
<th>Colour สี</th>
<th>1-gang 1 ช่อง</th>
<th>2-gang 2 ช่อง</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pure white ขาว</td>
<td>985.52.317</td>
<td>985.52.327</td>
<td></td>
</tr>
<tr>
<td>Aluminium coloured สีอลูมิเนียม</td>
<td>985.52.319</td>
<td>985.52.329</td>
<td></td>
</tr>
<tr>
<td>Stainless steel coloured สีเหล็ก</td>
<td>985.52.310</td>
<td>985.52.320</td>
<td></td>
</tr>
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</table>

**Note**

Gira frames System 55 – E22 สำหรับใช้งานในระบบ Gira energy control terminal ESS 140 Gira. Not suitable for wall terminal sets.

**Gira frames System S-Colour**

- Pure white ขาว
- Grey สีเทา
- Red สีแดง
- Blue สีน้ำเงิน
- Black สีดำ

**Gira frames System TX_44**

- Pure white ขาว
- Anthracite สีเทาดำ
- Aluminium coloured สีอลูมิเนียม

**Note**

Gira frames System TX_44 สำหรับใช้งานในระบบ Gira energy control terminal ESS 140 Gira. Not suitable for wall terminal sets.

**Note**

Only usable in combination with passive Gira energy control terminal ESS 140 Gira. Not suitable for wall terminal sets.
Sealing flange for rocker switches

**Functionality**
- In conjunction with System TX_44 frame and insert, a wide range of rocker switches is suitable for water-protected flush-mounted installation (protection class IP44)

**Plug-in**
- Suitable for Gira with System TX_44.

<table>
<thead>
<tr>
<th>Colour</th>
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</tr>
</thead>
<tbody>
<tr>
<td>White</td>
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<td>917.91.265</td>
</tr>
<tr>
<td>Aluminium</td>
<td>917.91.269</td>
</tr>
</tbody>
</table>

Insert for System TX_44 1-gang cover frame

**Functionality**
- In conjunction with System TX_44 frame and insert, a wide range of rocker switches is suitable for water-protected flush-mounted installation (protection class IP44)

**Plug-in**
- Suitable for System TX_44 1-gang cover frame.

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</tr>
<tr>
<td>Aluminium</td>
<td>917.91.269</td>
</tr>
</tbody>
</table>

Accessories for Gira cover frame

**Functionality**
- Room status indicator "Do not disturb" and "Make up room" with interlock to prevent simultaneous switching

**Plug-in**
- Suitable for Gira with System TX_44.

<table>
<thead>
<tr>
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<tr>
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<td>Aluminium</td>
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</tbody>
</table>

Mounting box Profile 55

**Functionality**
- Suitable for wall terminal set WT 140 Gira.

<table>
<thead>
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<th>Colour</th>
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<tbody>
<tr>
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**Note**
- Suitable for wall terminal set WT 140 Gira.

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</tbody>
</table>

New products and systems: www.hafele.com

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**Accessories for Gira cover frame**

**Room status indicator in hotels**

- **Function**
  - With green and red 230 V LED, marking and pictogram
  - “Do not disturb” (red) and “Make up room” (green) indicators
  - Each half can be controlled separately, e.g. via series switch
  - Installation: In deep flush box in compliance with DIN 49073

- **Supplied with**
  - 1 Room status indicator in hotels
  - 1 Label “Bitte warten”/“Bitte eintreten”
  - 1 Label “Do not disturb”/“Make up room”

<table>
<thead>
<tr>
<th>Colour สี</th>
<th>Cat. No. รหัสสินค้า</th>
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<tbody>
<tr>
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<tr>
<td>Pure white silk matt สีขาวผ้ากำมะหยี่</td>
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<tr>
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**Technical data**

<table>
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<tr>
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<th>230 V AC, 50 Hz 230 โวลท์ เลี่ยม 50 เฮซิลล์</th>
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<td>IP20</td>
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<tr>
<td>Operating temperature อุณหภูมิการทำงาน</td>
<td>-15 – +40°C</td>
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</table>

**Room status indicator in hotels**

- **Function**
  - Simple LED signalling for e.g. treatment rooms, conference or hotel rooms
  - Homogeneously illuminated area, divided into a red (top) and green (bottom) area
  - Each half can be controlled separately, e.g. via series switch

- **Supplied with**
  - 1 Room status indicator in hotels

<table>
<thead>
<tr>
<th>Room status indicator in hotels หน้าจอแสดงสถานะในโรงแรม</th>
<th>Cat. No. รหัสสินค้า</th>
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We reserve the right to alter specifications without notice (HTH Architectural Hardware 2015).
Passive energy control terminal ESS 140 Gira
อุปกรณ์ควบคุมพลังงาน ESS 140 Gira

Features
- For indoor use:
  Particularly suitable for use in hotels to activate electrical loads in guest rooms such as lighting, TV, sockets, air conditioning
- Activation as long as a Dialock card is inserted in the hold of the energy control terminal, authorisations of the card holder are not taken into consideration, that means every card is authorised

Material
- Housing plastic

Features
- Particularly suitable for use in hotels to activate electrical loads in guest rooms such as lighting, TV, sockets, air conditioning
- Activation as long as a Dialock card is inserted in the hold of the energy control terminal, authorisations of the card holder are not taken into consideration, that means every card is authorised

Material
- Housing plastic

Technical data

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<td>Connection screw terminals mm²</td>
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For Gira frames System 55
สำหรับเฟรม System 55

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<td>Pure white silk matt Scharzhäute</td>
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For Gira frames System S-Colour
สำหรับเฟรม System S-Colour

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<td>Black Scharzhäute</td>
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New products and systems: www.hafele.com
ผลิตภัณฑ์และวัสดุการใน: www.hafele.com
Wall terminal set WT 500 Dialock
ชุดควบคุมการล็อกประตูแบบติดตั้งบนผนัง WT 500 Dialock

Entrance wall reader WRU 500 หัวอ่านวิทยุติดตั้งบนผนังหน้าทางเข้า WRU 500
Internal module WRU 501 ในหูลาษฎาในห้อง WRU 501

Wall terminal set
ชุดควบคุมการล็อกประตูแบบติดตั้งบนผนัง

Version 1:
Basic version with entrance wall reader WRU 500
• For opening guest room doors, the touch sensitive push button surface can also be used as door bell or buzzer, for example (optional).
• Consists of: Entrance wall reader WRU 500, electronic control unit WTC 100, front frame (colour can be coordinated) and flush mounted box

Version 2:
Comfort version with entrance wall reader WRU 500 and internal module WRU 501 is the same as version 1 but additional illuminated symbols can be controlled from inside (“Please clean room”, “Do not disturb”), symbols visible from inside and outside, energy control terminal for controlling electric circuits and switching devices in the guest room.
Consists of: Entrance wall reader WRU 500, internal module WRU 501, electronic control unit WTC 500, front frame (colour can be coordinated) and flush mounted boxes

แบบที่ 1:
แบบพื้นฐานโดยใช้หัวอ่านบัตร WRU 500
• เป็นระบบทะลุกรง หรือเลือกใช้ตามแบบติดเอง เช่น หน้าต่างบัง หรือช่อง
• ส่วนประกอบ: หัวอ่านวิทยุติดตั้งบนผนังหน้าทางเข้า WRU 500 อุปกรณ์ควบคุมอิเล็กทรอนิกส์ WTC 100 กรอบที่สวยงาม และกล่องติดบนผนัง

แบบที่ 2:
แบบเพิ่มความสามารถด้วยหัวอ่านมัลติฟังก์ชัน WRU 500 และอุปกรณ์ในห้องพัก WT 501 ซึ่งลักษณะเหมือนแบบที่ 1 ที่แสดงข้างบน คือสามารถเปิดปิดสัญญาณไฟ ควบคุมที่健康发展 ควบคุมอิเล็กทรอนิกส์จากบัตรผ่านหน้าบัตรผ่าน ควบคุมไฟ อุปกรณ์ควบคุมอิเล็กทรอนิกส์ WTC 500 กรอบที่สวยงามและกล่องติดบนผนัง
Entrance wall reader WRU 500

Features
- Intelligent reader for interior guest doors in the corridor, activated by Tag-IT™ card.
- Display of the locking and unlocking with LEDs red / green
- Engage the mortise lock and disengaged after 10 s automatically
- For service personnel, indicate the programming status
- Infrared interface for programming
- In combination with internal module WRU 501: Display of illuminated symbols "Please clean up" and "Do not disturb"
- Customized icons and logos available

Technical data
- Protection class: IP 20
- Power supply: 12–24 V DC
- Spring clip terminal connection: 0.5 mm²

Material/Colour

<table>
<thead>
<tr>
<th>วัสดุ/สี</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing of the reader plastic black</td>
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</table>

Technical reference
- Electronic control unit WTC 100 for wall reader WRU 500, electronic control unit WTC 500 for wall reader WRU 500 and internal module WRU 501
- Connection between wall reader and electronic control unit with four core installation cable in compliance with VDE 0815: Type J-Y (SI) Y 2x2x0.8 mm (twisted pair, shielded), max. length 35 m (Tag-IT™-ISO)
- Please contact Dialock specialist with other lengths
- Installation of wall readers in flush mounted box (134 x 74 mm) with 2 screws.
- Please make sure fastening points on the flush box are horizontal
- Installation of wall reader in metal surroundings must be planned correctly.

Entrance wall reader WRU 500

Features
- Intelligent reader for interior guest doors in the corridor, activated by Tag-IT™ card.
- Display of the locking and unlocking with LEDs red / green
- Engage the mortise lock and disengaged after 10 s automatically
- For service personnel, indicate the programming status
- Infrared interface for programming
- In combination with internal module WRU 501: Display of illuminated symbols "Please clean up" and "Do not disturb"
- Customized icons and logos available

Technical data
- Protection class: IP 20
- Power supply: 12–24 V DC
- Spring clip terminal connection: 0.5 mm²

Material/Colour

<table>
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<tr>
<th>วัสดุ/สี</th>
<th>Cat. No.</th>
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<tbody>
<tr>
<td>Housing of the reader plastic black</td>
<td>917.41.970</td>
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</tbody>
</table>

Technical reference
- Electronic control unit WTC 100 for wall reader WRU 500, electronic control unit WTC 500 for wall reader WRU 500 and internal module WRU 501
- Connection between wall reader and electronic control unit with four core installation cable in compliance with VDE 0815: Type J-Y (SI) Y 2x2x0.8 mm (twisted pair, shielded), max. length 35 m (Tag-IT™-ISO)
- Please contact Dialock specialist with other lengths
- Installation of wall readers in flush mounted box (134 x 74 mm) with 2 screws.
- Please make sure fastening points on the flush box are horizontal
- Installation of wall reader in metal surroundings must be planned correctly.

Entrance wall reader WRU 500

Features
- Intelligent reader for interior guest doors in the corridor, activated by Tag-IT™ card.
- Display of the locking and unlocking with LEDs red / green
- Engage the mortise lock and disengaged after 10 s automatically
- For service personnel, indicate the programming status
- Infrared interface for programming
- In combination with internal module WRU 501: Display of illuminated symbols "Please clean up" and "Do not disturb"
- Customized icons and logos available

Technical data
- Protection class: IP 20
- Power supply: 12–24 V DC
- Spring clip terminal connection: 0.5 mm²

Material/Colour

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<tbody>
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<td>Housing of the reader plastic black</td>
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</table>
Internal module WRU 501

Housing of the reader plastic black
917.41.980

Features
• Intelligent reader for interior guest doors in the corridor, activated by Tag-IT™ card
• Display of the locking and unlocking with LEDs red / green
• Engage the mortise lock and disengaged after 10 s automatically
• For service personnel, indicate the programming status
• Infrared interface for programming
• In combination with internal module WRU 501: Display of illuminated symbols “Please clean up” and “Do not disturb”
• Customized icons and logos available

Technical data
• Protection class: IP 20
• Power supply: 12–24 V DC
• Spring clip terminals connection: 0.5 mm²

Material/Colour
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</table>

Technical reference
• Electronic control unit WTC 100 for wall reader WRU 500, electronic control unit WTC 500 for wall reader WRU 500 and internal module WRU 501

Electronic Locking System
ุปกรณ์เสียบและการปิดประตู
ระบบประตูหลักและประตูเชื้อ

Features
• Intelligent reader for interior guest doors in the corridor, activated by Tag-IT™ card
• Display of the locking and unlocking with LEDs red / green
• Engage the mortise lock and disengaged after 10 s automatically
• For service personnel, indicate the programming status
• Infrared interface for programming
• In combination with internal module WRU 501: Display of illuminated symbols “Please clean up” and “Do not disturb”
• Customized icons and logos available

Technical data
• Protection class: IP 20
• Power supply: 12–24 V DC
• Spring clip terminals connection: 0.5 mm²

Material/Colour
<table>
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<tr>
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

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Electronic control unit WTC 100/500

Features
- Electronic control unit WTC 100: To control the entrance wall reader WRU 500
- Electronic control unit WTC 500: To control the combination of entrance wall reader WRU 500 and internal module WRU 501
- With built-in clock for programming time-limited access rights (division of time zones)
- With logging of all processes
- With 4 inputs for the evaluation of the input signals, e.g. read contact for door monitoring
- With serial interface RS 232 for optional networking via online sets
- Installation: For mounting on DIN rail

Technical data

### Protection class
IP20

### Ambient temperature (operation)
-20 – +70°C

### Power supply
9–40 V DC or 8–36 V AC

### Current input
Max. continuous current intake mA
150

### Contact rating of relays
Max. switching current (short-term) A
2.0

### Min. data storage in the event of a power failure years
10

### Relative humidity (non-condensating)
0–95%

### Connection screw terminals mm²
2.5

#### Material/Colour

**WTC 100**
- Housing plastic light grey
- Cat. No.: 917.91.064

**WTC 500**
- Housing plastic light grey
- Cat. No.: 917.91.069
Biometric fingerprint scanner integra WT 900 Dialog

Features
- Suitable to install finger scanner on door panel
- Stores 99 fingerprints and used for indoor and outdoor
- With 1 output, dry contact up to 42V 2A for door lock or so on.
- Standalone version - No need software and computer
- Convenient and secure - No keys, passwords or cards to be forgotten, stolen or lost
- Power supply 8-24 V AC or 8-30 V DC
- Protection class: Finger scanner IP54 outside/IP40 inside, control panel IP67
- Biometric figures: FAR 1 x 10^-7 at FRR 1.4 x 10^-2
- Recommended fingerprint scanner mounting height from ground to scanner lower edge at least 1,550 mm

Technical reference
- Door cut-out for fingerprint scanner 85 x 39.5 mm (corner radius max. 5 mm), milling depth is 16 mm, for additional control panel and cables are milling required
- Power supply must ensure that the distance between control panel and finger scanner is more than 50 m and a min. cable diameter of 0.5 mm is selected

How to order biometric fingerprint scanner integra WT 900
1. Please kindly order A-E shown on following pages
2. Please order the electronic locking element separately
3. If the electronic locking element doesn’t use 12 V DC or need current more than 2.5 A, please order a suitable power supply for electronic locking element additionally.
4. Please order a push switch to open the door if will be necessary

01.10.2015
**A Fingerprint scanner**  
หัวอ่านลายนิ้วมือ

**Features**  
- Biometric figures: FAR \(1 \times 10^{-7}\) at FRR \(1.4 \times 10^{-2}\)  
- Recommended fingerprint scanner mounting height from ground to scanner lower edge at least 1,550 mm

**Supplied with**  
1 Fingerprint scanner  
1 Cover plate, stainless steel matt

**Dimensions**  
- Biometric figures: FAR \(1 \times 10^{-7}\) at FRR \(1.4 \times 10^{-2}\)  
- Recommended fingerprint scanner mounting height from ground to scanner lower edge at least 1,550 mm

**Mounted components**  
- Fingerprint scanner  
- Cover plate, stainless steel matt

**Lifetime**  
- 10 million swipes under normal conditions  
- 1 year

**Cat. No.**  
912.10.605

**B Control panel with cable transition, concealed installation**  
แบบควบคุมพร้อมท่อร้อยสายไฟฟ้า การติดตั้งแบบชุดไขมัน

**Milling dimension**  
ขนาดรูจับ

**Features**  
- Opening angle: 180°
- Mounting kit for timber doors

**Supplied with**  
- Control panel with cable transition, concealed installation
- Mounting kit for timber doors

**Milling dimension**  
ขนาดรูจับ

**Cat. No.**  
912.10.690

**Opening angle**  
\(180°\)

**Cat. No.**  
912.09.570
Cable type A – RJ45/CP35, 4-pin
สายไฟชนิด A - หัว RJ45/CP35 แบบ 4 ขั้น

Features
• For connection between connected fingerprint scanner and control panel

คุณสมบัติ
• สำหรับต่ออุปกรณ์เส้นสายดิจิตอลของระบบ

<table>
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<tr>
<th>Length mm</th>
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Cable type C – 3-pin No connector/No connector
สายไฟชนิด C - แบบ 3 ขัง ไม่มีขั้นตอน/ไม่มีขั้นตอน

Features
• For connection to electronic locking elements such as motor lock or electric door opener (optional)

คุณสมบัติ
• สำหรับต่ออุปกรณ์เส้นสายดิจิตอลของระบบ เช่น มอเตอร์ ประตู ซักผ้า น้ำมัน ฯลฯ (อุปกรณ์เสริม)

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<th>Cat. No.</th>
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<tr>
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<td>4,000</td>
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Power supply 12 V with standby battery
อุปกรณ์จ่ายไฟฟ้าแบบ 12 โวลต์ พร้อมแบตเตอรี่สำรองใช้ในวันที่

Technical data
• Input voltage: 190–265 V AC/50–60Hz
• Output voltage: 12 V DC (15% tolerance)
• Max. output current: 3 A
• Standby battery: 12 V/7Ah
• Output short-circuit protection
• Output current-limiting and over-voltage protection
• Standby battery voltage shutdown below 10.8 V DC

ขนาดและข้อมูลเทคนิค
• แรงดันไฟฟ้ารับเข้า: 190-265 โวลต์ กระแส 50-60 ฮิซ
• แรงดันไฟฟ้ารับ 출력 12 โวลต์ ดีซี (ค่านัยน์ไม่เกิน 15 %)
• กระแสไฟฟ้ารับเข้า ไม่เกิน 3 แอม卑ร์
• แบบต่อตัวสำรองไฟฟ้า 12 โวลต์/7 แอมเบอร์ - ชั่วโมง
• ระบบป้องกันการสั่น_RATIO จากไฟฟ้ารับ 출력
• ระบบป้องกันการสั่น_RATIO จากไฟฟ้ารับ 출력
• แบบต่อตัวสำรองไฟฟ้ารับ 출력 ไม่เกิน 10.8 โวลต์ ดีซี

Box dimension (W x H x D) mm
ขนาดกล่อง (กว้าง x สูง x ลึก) มม.
163 x 203 x 74

01.10.2015
Locking and Security
Electronic Locking System

Biometric fingerprint scanner outlet E WT 900 Dialock
อุปกรณ์ควบคุมการล็อคด้วยลายมืออินเลกซ์ออก เทีย E WT 900 Dialock

Features
- Suitable to install finger scanner on both, door panel and wall by recess mounting
- Compatible with switch range
- With 1 output, dry contact up to 42V 2A for door lock
- Standalone version – no software and computer necessary
- Convenient and secure – no keys, passwords or cards which could be forgotten, get stolen or lost necessary
- Power supply: 8–24 V AC or 8–30 V DC
- Protection grade: Finger scanner IP31, control panel IP20

Supplied with
1 Finger scanner with white center frame and blue-grey glass frame
1 Control panel
1 Installation and operating instruction

Notes
- Recommended finger scanner mounting height from ground to scanner lower edge at least 1,550 mm
- Recommended finger scanner mounting height from ground to scanner lower edge at least 1,550 mm
- Recommended finger scanner mounting height from ground to scanner lower edge at least 1,550 mm
- Recommended finger scanner mounting height from ground to scanner lower edge at least 1,550 mm
- Recommended finger scanner mounting height from ground to scanner lower edge at least 1,550 mm
- Recommendation finger scanner lower edge height from ground at least 1,550 mm
- Recommended finger scanner mounting height from ground to scanner lower edge at least 1,550 mm

Order reference
Please order flush box, door lock and power supply suitable for door lock seperately.
Biometric finger print scanner outlet I WT 900 Dialock

Features
- Suitable to install finger scanner on both, door panel and wall by recess mounting
- With 1 output, dry contact up to 42V 2A for door lock
- Standalone version – no software and computer necessary
- Convenient and secure – no keys, passwords or cards which could be forgotten, get stolen or lost necessary
- Power supply: 8–24 VAC or 8–30 VDC
- Protection grade: Finger scanner IP64, control panel IP20

Supplied with
1 Finger scanner with stainless steel frame
1 Control panel
1 Installation and operating instruction

Features  
Cat. No.  
Stores 99 fingerprints, for indoor and outdoor use  
912.10.603

Supplied with
1 Finger scanner with stainless steel frame
1 Control panel
1 Installation and operating instruction

Order reference
Please order flush box, door lock and power supply suitable for door lock separately.

Note
Recommended finger scanner mounting height from ground to scanner lower edge at least 1,550 mm

Material thickness 6.5 mm

Material thickness 6.5 mm

Order reference
Please order flush box, door lock and power supply suitable for door lock separately.

Note
Recommended finger scanner mounting height from ground to scanner lower edge at least 1,550 mm
Biometric finger print scanner surface mounting WT 900 Dialock

Features
- Suitable to install finger scanner on wall by surface mounting
- With 1 output, dry contact up to 42V 2A for door lock or so on.
- Standalone version – no software and computer necessary
- Convenient and secure – no keys, passwords or cards which could be forgotten, get stolen or lost necessary
- Power supply: 8024 V AC or 8–30 V DC
- Protection grade: Finger scanner IP44, control panel IP20

Supplied with
1 Finger scanner
1 Control panel
1 Installation and operating instruction

Order reference
Please order door lock and power supply suitable for door lock and ekey wall terminal separately.

Weather shield WM

Order reference
Please order weather shield WM separately when you need a rain protection.

Notes
- Recommended finger scanner mounting height from ground to scanner lower edge at least 1,350 mm
- ความสูงที่แนะนำสำหรับติดตั้งหัวอ่านลายนิ้วมือควรมีความสูงจากพื้นเจดีย์ขึ้นไปอย่างน้อย 1,350 มม.
**Wall terminal ECard**

**ลุ่มกรรมควบคุมการล็อก รุ่นติดตั้งบนผนัง ECard**

**Feature**
- Key cards or/and password identification:
  - Up to 1,024 key cards (Mifare or EM)
  - 4 digits combination password
- Door open wait time adjustable
- Output: For door lock (1 relay, 2A/30VDC, NO/NC/COM) alarm
- Input: For exit switch/door sensor
- Power requirement: 9–16 V DC, max. 3 W
- Dimension (L x W x H): 111 x 77 x 26 mm
- Weight: 100 g

**Material/Finish**
- ABS grey

**Wiring diagram**

*Using with door lock*

*Using with door sensor*

**Card type**

<table>
<thead>
<tr>
<th>Card type</th>
<th>Cat. No.</th>
<th>รหัสสินค้า</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mifare</td>
<td>912.05.050</td>
<td></td>
</tr>
<tr>
<td>EM</td>
<td>912.05.051</td>
<td></td>
</tr>
</tbody>
</table>

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We reserve the right to alter specifications without notice. (HTH Architectural Hardware 2015)
Door terminal EF680
ระบบประตูประตูพิเศษ EF680

Features
• Proximity card or password identification
  Up to 100 proximity card
  1 password (4-12 digits combination)
• English voice guide with volume control
• Digital touch pad design
• Break-in and damage alarm
• Automatic lock
• Anti-panic system on exit
• Free access or privacy mode selectable
• Wrong-try lockout delay
• External 9V battery terminal for emergency use
• Emergency key override and low battery power alert
• Battery lifetime: Approx. 1 year (10 times usage per day)
• Suitable for DIN left and right hand
• For door thickness: 35–50 mm

Supplied with
1 Front and rear module
1 Motise lock and striking plate
1 Set of fixing material
1 User manual and installation template
4 Batteries
3 Emergency keys

Specifications
• Proximity card or password identification
• English voice guide with volume control
• Digital touch pad design
• Break-in and damage alarm
• Automatic lock
• Anti-panic system on exit
• Free access or privacy mode selectable
• Wrong-try lockout delay
• External 9V battery terminal for emergency use
• Emergency key override and low battery power alert
• Battery lifetime: Approx. 1 year (10 times usage per day)
• Suitable for DIN left and right hand
• For door thickness: 35–50 mm

Version
Cat. No.
Black
912.05.350
White
912.05.351
Biometric door terminal EF780
ระบบล็อคประตูบิโอเทคนิค แบบหน้าและหลัง EF780

Features

• Fingerprint or password identification:
  • Up to 100 fingerprints
  • 1 password (4-12 digits combination)

• English voice guide with volume control

• Digital touch pad design

• Break-in and damage alarm

• Automatic lock

• Anti-panic system on exit

• Free access or privacy mode selectable

• Wrong-try lock out delay,

• External 9 V battery terminal for emergency use

• Emergency key override and low battery power alert

• Battery lifetime: Approx. 1 year (10 times usage per day)

• Suitable for DIN left and right hand

• For door thickness: 35–50 mm

Supplied with

1 Front and rear module
1 Motise lock and striking plate
1 Set of fixing material
1 User manual and installation template
4 Batteries
3 Emergency keys

Specifications

• Biometric door terminal EF780

  • Fingerprints or password identification:
    • Up to 100 fingerprints
    • 1 password (4-12 digits combination)

  • English voice guide with volume control

  • Digital touch pad design

  • Break-in and damage alarm

  • Automatic lock

  • Anti-panic system on exit

  • Free access or privacy mode selectable

  • Wrong-try lock out delay,

  • External 9 V battery terminal for emergency use

  • Emergency key override and low battery power alert

  • Battery lifetime: Approx. 1 year (10 times usage per day)

  • Suitable for DIN left and right hand

  • For door thickness: 35–50 mm

Supplied with

1 Front and rear module
1 Motise lock and striking plate
1 Set of fixing material
1 User manual and installation template
4 Batteries
3 Emergency keys

Version

<table>
<thead>
<tr>
<th>Color</th>
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New products and systems: www.hafele.com

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AH 2.186

ผลิตภัณฑ์และระบบที่ใหม่: www.hafele.com

We reserve the right to alter specifications without notice (HTH Architectural Hardware 2015).

AH 2.186
Door terminal EF180
ระบบประตูประตูดี كلمة EF180

Feature
- Proximity card or password identification:
  Up to 50 proximity cards
  1 password (4-12 digits combination)
- English voice guide with volume control
- Digital touch pad design
- Break-in and damage alarm
- Automatic lock
- Free access or privacy mode selectable
- Wrong-try lock out delay.
- External 9 V battery terminal for emergency use
- Low battery power alert
- Battery lifetime: Approx. 1 year (10 times usage per day)
- Suitable for DIN left and right hand
- For door thickness: 32–60 mm

Supplied with
1 Front and rear module
1 Striking plate
1 Set of fixing material
1 User manual and installation template
4 Batteries
4 Cards

Specifications
- Electronic Locking System
- Door terminal EF180
- Front and rear module
- Striking plate
- Fixing material
- User manual
- Installation template
- Batteries
- Cards

Version
- Black/chrome: 912.09.952
- White/chrome: 912.09.956

Dimensions
- Front module: 80 x 160 x 30 mm
- Rear module: 80 x 160 x 30 mm

Compatibility
- Suitable for DIN left and right hand
- For door thickness: 32–60 mm

Notes
- We reserve the right to alter specifications without notice (HTH Architectural Hardware 2015).
- Version, Cat. No. and materials subject to change without prior notice.

New products and systems: www.hafele.com
ดูผลิตภัณฑ์และวัสดุกรุณาระบุ: www.hafele.com
Biometric door terminal EF280
ระบบล็อคประตูนิรภัยด้วยลายนิ้วมือ EF280

Feature
• Fingerprint or password identification:
  Up to 50 fingerprints
  1 password (4-12 digits combination)
• English voice guide with volume control
• Digital touch pad design
• Break-in and damage alarm
• Automatic lock
• Free access or privacy mode selectable
• Wrong-try lock out delay,
• External 9V battery terminal for emergency use
• Low battery power alert
• Battery lifetime: Approx. 1 year (10 times usage per day)
• Suitable for DIN left and right hand
• For door thickness: 32–60 mm

Supplied with
1 Front and rear module
1 Striking plate
1 Set of fixing material
1 User manual and installation template
4 Batteries

Version
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<td>912.09.957</td>
<td>White/Chrome</td>
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</table>
Locking and Security
Electronic Locking System

KC Key card
ศีรษ์การ์ด

Features
- Electronic key for Dialock:
  4 independent locking authorisations per key card (blank card),
  3 independent locking authorisations per key card (two-sided print)
- Tag-IT™ ISO technology wear and tear free (contactless data
  transfer), maintenance free (without batteries), insensitive to
  external influences such as wetness, moisture, magnetic fields,
  mechanical vibrations, dust, reprogrammable at least 100,000
  times, forgery-proof unique number
- Ambient temperature (operation): -35 to +50°C
- Min. data storage: 10 years
- Size: 54 x 85 mm (credit card format)
- Material/colour: Plastic white

Version | Cat.No. |  
--- | --- | ---
Blank card | 917.44.037 |  
Two-side printed card | 917.44.020 |  
Sample card with customer design | 917.44.063 |  
Key card with customer design (Min. order quantity 200 pcs.) | On request |  

New products and systems: www.hafele.com

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HTH Architectural Hardware 2015
Locking and Security
Electronic Locking System

Key tag KT
คีย์แท็ก KT

Features
- Electronic key for Dialock as key tag: 4 Independent locking authorisations per key tag
- Tag-it™ ISO technology, waterproofed
- Ambient temperature (operation): -35 to +50°C
- Min. data storage: 10 years
- Material: Plastic

Features
- Electronic key for Dialock as key fob: 4 Independent locking authorisations per key fob
- Tag-it™ ISO technology, wear and tear free (contactless data transfer), maintenance free (without batteries) insensitive to external influences such as wetness, moisture, magnetic fields, mechanical vibrations, dust, forgery-proof unique number
- Ambient temperature (operation): -35 to +50°C
- Min. data storage: 10 years
- Dimensions: 28 x 56 x 1.7 mm

Features
- Colour: Red 917.44.099
- Colour: Blue 917.44.098

Order reference
Customized imprint available on request.

Handy References
Contact us for more information.

New products and systems: www.hafele.com
ผลิตภัณฑ์และบริการในไทย: www.hafele.com

AH 2.190

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*We reserve the right to alter specifications without notice. (HTH Architectural Hardware 2015.)*
Key tag KT
คีย์แท็ก KT

Features
• Electronic key for Dialock as key tag: 4 independent locking authorisations per key tag
• Tag-it™ ISO technology
• Solid and impact resistant polycarbonate, ultrasound welded and waterproof with stainless steel frame
• Loop can’t break off anymore - unlike as other commercially available key tags.
• Optimal marking: Laser engraved numbers or text/logo possible
• Ambient temperature (operation): -35 to +50°C
• Min. data storage: 10 years
• Dimension: 36 x 7.2 mm

Specifications
• Electronic key for Dialock as key tag: 4 independent locking authorisations per key tag
• Tag-it™ ISO technology
• Solid and impact resistant polycarbonate, ultrasound welded and waterproof with stainless steel frame
• Ambient temperature (operation): -35 to +50°C
• Min. data storage: 10 years
• Dimension: 36 x 5.3 mm

Colour
• White สีขาว 917.44.107
• Black สีดำ 917.44.103
• Light blue สีฟ้าอ่อน 917.44.105
• Red สีแดง 917.44.109
• Blue สีน้ำเงิน 917.44.108
• Orange สีส้ม 917.44.101

Order reference
Printed text or photo/graphic available on request.
(template with min. 300 dpi is required)
## Programming key card Dialock

**Features**
- For granting access authorisations without software and programming station
- For small projects with few Tag-it™ keys

### Material

<table>
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<tr>
<th>Material</th>
<th>Cat. No.</th>
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</thead>
<tbody>
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<td>917.42.001</td>
</tr>
</tbody>
</table>

## Clearing key card Dialock

**Features**
- For deleting access authorisations without software and programming station
- For small projects with few Tag-it™ keys

### Material

<table>
<thead>
<tr>
<th>Material</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plastic</td>
<td>917.42.002</td>
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</tbody>
</table>

## Key card Mifare

**Features**
- Thickness: 0.8 mm

### Material

<table>
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<th>Version</th>
<th>Cat. No.</th>
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<td>917.80.738</td>
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<tr>
<td>Printed card Mifare</td>
<td>917.80.710</td>
</tr>
<tr>
<td>Sample card with customer design Mifare</td>
<td>917.64.063</td>
</tr>
<tr>
<td>Key card with individual customer design Mifare (Min. order quantity 200 pcs.)</td>
<td>On request</td>
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</table>

## Key card EM

**Features**
- Thickness: 0.8 mm (Width x length: 54 x 85 mm)
- Thickness: 1.8 mm (Width x length: 54 x 85 mm)

### Material

<table>
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<tr>
<th>Version</th>
<th>Thickness mm</th>
<th>Cat. No.</th>
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<tr>
<td>Blank card EM</td>
<td>1.8</td>
<td>912.05.062</td>
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</table>
Software Hotel SH+ Dialock

Features
- System requirement: Windows 2000/XP/Vista/Win 7
- 40 MB free hard disk space, CD-ROM drive, 2 x USB
- For hotels, resorts, inns and guest houses
- Easy and clearly arranged administration and allocation of Dialock guest and personnel keys for hotels.
- Defining guest groups, for fast check-in/check-out of guest groups, automatic compilation of room lists.
- Defining group locking authorisations for groups with identical locking authorisations.
- Defining time zones for restriction of locking authorisations to days and times of choice.
- Automatic graphical display of locking authorisations of the actual locking plan including locking authorisations of all keys.
- Search for personnel keys and rooms with convenient search function.
- Printing search results is possible
- Language: English

Software Hotel SH+ Dialock

Features
- System requirement: Windows 2000/XP/Vista/Win 7
- 40 MB free hard disk space, CD-ROM drive, 2 x USB
- For linking the Dialock system to hotel management systems
- Guest keys can be allocated using the application of the hotel management system.

Features
- System requirement: Windows 2000/XP/Vista/Win 7
- 40 MB free hard disk space, CD-ROM drive, 2 x USB
- dusk at 2015.

Features
- Easy and clearly arranged administration and allocation of Dialock guest and personnel keys for hotels.
- Defining guest groups, for fast check-in/check-out of guest groups, automatic compilation of room lists.
- Defining group locking authorisations for groups with identical locking authorisations.
- Defining time zones for restriction of locking authorisations to days and times of choice.
- Automatic graphical display of locking authorisations of the actual locking plan including locking authorisations of all keys.
- Search for personnel keys and rooms with convenient search function.
- Printing search results is possible
- Language: English

Features
- Easy and clearly arranged administration and allocation of Dialock guest and personnel keys for hotels.
- Defining guest groups, for fast check-in/check-out of guest groups, automatic compilation of room lists.
- Defining group locking authorisations for groups with identical locking authorisations.
- Defining time zones for restriction of locking authorisations to days and times of choice.
- Automatic graphical display of locking authorisations of the actual locking plan including locking authorisations of all keys.
- Search for personnel keys and rooms with convenient search function.
- Printing search results is possible
- Language: English

Features
- Easy and clearly arranged administration and allocation of Dialock guest and personnel keys for hotels.
- Defining guest groups, for fast check-in/check-out of guest groups, automatic compilation of room lists.
- Defining group locking authorisations for groups with identical locking authorisations.
- Defining time zones for restriction of locking authorisations to days and times of choice.
- Automatic graphical display of locking authorisations of the actual locking plan including locking authorisations of all keys.
- Search for personnel keys and rooms with convenient search function.
- Printing search results is possible
- Language: English

Software interface universal HMS Dialock

Features
- For linking the Dialock system to hotel management systems
- Guest keys can be allocated using the application of the hotel management system.

Features
- Easy and clearly arranged administration and allocation of Dialock guest and personnel keys for hotels.
- Defining guest groups, for fast check-in/check-out of guest groups, automatic compilation of room lists.
- Defining group locking authorisations for groups with identical locking authorisations.
- Defining time zones for restriction of locking authorisations to days and times of choice.
- Automatic graphical display of locking authorisations of the actual locking plan including locking authorisations of all keys.
- Search for personnel keys and rooms with convenient search function.
- Printing search results is possible
- Language: English

Features
- Easy and clearly arranged administration and allocation of Dialock guest and personnel keys for hotels.
- Defining guest groups, for fast check-in/check-out of guest groups, automatic compilation of room lists.
- Defining group locking authorisations for groups with identical locking authorisations.
- Defining time zones for restriction of locking authorisations to days and times of choice.
- Automatic graphical display of locking authorisations of the actual locking plan including locking authorisations of all keys.
- Search for personnel keys and rooms with convenient search function.
- Printing search results is possible
- Language: English

Software online module TCP/IP Dialock

Features
- For linking the Dialock system to hotel management systems
- Guest keys can be allocated using the application of the hotel management system.

Features
- Easy and clearly arranged administration and allocation of Dialock guest and personnel keys for hotels.
- Defining guest groups, for fast check-in/check-out of guest groups, automatic compilation of room lists.
- Defining group locking authorisations for groups with identical locking authorisations.
- Defining time zones for restriction of locking authorisations to days and times of choice.
- Automatic graphical display of locking authorisations of the actual locking plan including locking authorisations of all keys.
- Search for personnel keys and rooms with convenient search function.
- Printing search results is possible
- Language: English

Software online module TCP/IP Dialock

Features
- For linking the Dialock system to hotel management systems
- Guest keys can be allocated using the application of the hotel management system.

Features
- Easy and clearly arranged administration and allocation of Dialock guest and personnel keys for hotels.
- Defining guest groups, for fast check-in/check-out of guest groups, automatic compilation of room lists.
- Defining group locking authorisations for groups with identical locking authorisations.
- Defining time zones for restriction of locking authorisations to days and times of choice.
- Automatic graphical display of locking authorisations of the actual locking plan including locking authorisations of all keys.
- Search for personnel keys and rooms with convenient search function.
- Printing search results is possible
- Language: English

New products and systems: www.hafele.com

CAT. NO.: 910.52.162

New products and systems: www.hafele.com

CAT. NO.: 917.92.031

New products and systems: www.hafele.com

CAT. NO.: 917.92.034

New products and systems: www.hafele.com

CAT. NO.: 917.92.040

New products and systems: www.hafele.com
Locking and Security

Electronic Locking System

Online monitor software Dialock

Features
- Programme for displaying status and events

Features
- Creation of customized lists such as door lists, alarm lists, door status lists "Please do not disturb"/"Please make up room" lists (hotel application).
- Lists are displayed on the PC screen
- Online macros activates additional functions, e.g. controlling light switches or barriers

Activations of an additional encoding station

Features
- For every additional encoding station used with interface HMS, must be activated if more than one encoding station is used

Activation of an additional encoding station

Features
- For every additional encoding station used with interface HMS, must be activated if more than one encoding station is used

<table>
<thead>
<tr>
<th>Features</th>
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<tbody>
<tr>
<td>Online monitor software Dialock</td>
<td>917.92.041</td>
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<tr>
<td>List generator and online macros</td>
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<tr>
<td>Activation of an additional encoding station</td>
<td>917.92.032</td>
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</tbody>
</table>

We reserve the right to alter specifications without notice (HTH Architectural Hardware 2015).
Encoding station ES 100 Dialock
อุปกรณ์โปรแกรมซักลู ES 100 Dialock

Features
- For encoding Dialock keys in combination with Dialock software or for integration into external software (hotel management systems)
- For indoor use
- Display 4 x 20 characters
- With USB interface for connection with the computer
- Infrared interface for transferring data to the Dialock MDU 100 mobile data unit

Supplied with
1 Encoding station ES 100
1 Master key
1 USB cable A/B, 2 m

Material/Finish
Housing plastic silver coloured/grey
Cat. No. 917.42.015

Encoding station ES 100 Mini Dialock
อุปกรณ์โปรแกรมซักลู ES 100 Mini Dialock

Features
- For encoding Dialock keys in combination with Dialock software or for integration into external software (hotel management systems)
- For indoor use
- With USB interface for connection with the computer

Supplied with
1 Encoding station ES 100 Mini
1 Master key
1 USB cable, 150 mm
1 USB extension cable, 1.80 m

Material/Finish
Housing plastic black
Cat. No. 917.42.017
Mobile data unit MDU 100 Dialock

Features
• Fast and convenient configuration and integration of the individual components into the Dialock locking system
• Transfer of all data and settings which were set with the Dialock software
• Polling access logs at the terminal
• Infrared and wired interface for communication between MDU and components
• Menu: English and German
• Voltage supply: Accu batteries with USB charging cable
• Weight incl. accu batteries: approx. 500 g
• Display: 128 x 64 pixels
• Data transfer in combination with software and encoding station

Supplied with
• 1 Mobile data unit MDU 100
• 1 Transponder (as card)
• 1 USB cable 1.5 m for connection between MDU 100 and PC

Programming cable for MDU 100

Feature
• Cable for connection between MDU 100 and terminals

Supplied with
• Programming cable for MDU 100

Features
• Cable for connection between MDU 100 and terminals

Version

<table>
<thead>
<tr>
<th>Feature</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobile data unit MDU 100</td>
<td>917.42.141</td>
</tr>
<tr>
<td>Programming cable for MDU 100</td>
<td>917.90.265</td>
</tr>
<tr>
<td>Programming cable for LockerLock LL 100</td>
<td>917.90.267</td>
</tr>
<tr>
<td>Programming cable for FT 120</td>
<td></td>
</tr>
</tbody>
</table>
Online adapter ND 100 Dialock
อุปกรณ์เชื่อมต่อระบบออนไลน์ ND 100 Dialock

**Example of calculation**
Network of wall terminal WT 30 sets are required:
1 Online adapter ND 100
4 Online extensions ND 101
30 Wall terminals WT
(consisting of readers WR and electronic control unit WT)

**Features**
- For networking several wall terminal sets over TCP/IP with PC and Encoding station ES for central controllable and efficient online access control system, configuration of all connected wall terminals WT
- Update the access permissions of Dialock keys without time delay
- Reading the event logs (logging all access attempts and closing operations)
- Installation and troubleshooting of the online system via web browser
- Integration of branches or offices, remote over WAN or LAN connection in conjunction with Online module TCP/IP software
- Combination with online extension ND 101 only
- Central operation with Software Hotel SH+ and Online module TCP/IP software additionally

**Protection class**
- IP20

**Ambient temperature (operation)**
- -20 – +65°C

**Power supply V DC**
- 10–28

**Max. current input mA**
- 150

**Connection**
- RS 232: Screw terminals 2.5 mm²
- CAT 5 cable with RJ 45, length up to 100 m
- RS 485 and TTL: Not useable

**Relative humidity (non-condensing)**
- 0–95%

**Mounting**
- On DIN rail EN 50022

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Network of wall terminal WT 30 sets are required:
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30 Wall terminals WT
(consisting of readers WR and electronic control unit WT)
Locking and Security
Electronic Locking System

Online extension ND 101 Dialock
อุปกรณ์ระยะระยะทาง ND 101 Dialock

Example of calculation
Network of wall terminal WT 30 sets are required:
1 Online adapter ND 100
4 Online extensions ND 101
30 Wall terminals WT
(consisting of readers WR and electronic control unit WT)

detail of the calculation
เครื่องคำนวณข้อมูลความคุ้มค่าการติดตั้งระบบอุปกรณ์แบบติดตั้งบนเน็ต
จำนวน 30 ชุด
อุปกรณ์ช่างตระแหน่งของ ND 100 1 ชิ้น
อุปกรณ์กระจายสัญญาณ ND 101 4 ชิ้น
ชุดควบคุมการติดตั้งอุปกรณ์แบบติดตั้งบนเน็ต 30 ชุด
ประกอบด้วยที่อยู่ WR และชุดควบคุมสัญญาณติดตั้งบนเน็ต W7

Features
- For networking several wall terminal sets over TCP/IP with PC and encoding station ES for central controllable and efficient online access control system, configuration of all connected wall terminals WT
- Update the access permissions of Dialock keys without time delay
- Reading the event logs (logging all access attempts and closing operations)
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- Combination with online extension ND 101 only
- Central operation with Software Hotel SH+ and online module TCP/IP software additionally

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- Update the access permissions of Dialock keys without time delay
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- Combination with online extension ND 101 only
- Central operation with Software Hotel SH+ and online module TCP/IP software additionally

Protection class
ระดับการป้องกัน:
IP20

Ambient temperature (operation)
อุณหภูมิที่ใช้งาน:
-20 – +65°C

Power supply V DC
แหล่งจ่ายไฟ:
10–28 V

Max. current input mA
มีการใช้:\n150 mA

Connection
การเชื่อมต่อ:
8 x RS 232 Screw terminals 2.5 mm², for electronic control unit
2 x RS 232 Screw terminals 2.5 mm², for online adapter ND 100 and online extension ND 101

Relative humidity (non-condensing)
ความชื้นในบริเวณ:
0–95%

Mounting
การติดตั้ง:
On DIN rail EN 50022

Cat. No. 910.51.135
Features
- For PO box systems, central pharmacy systems, lift controls
- 1 Electronic output extender OE 200 controls max. 8 electrical devices independently
- 128 electrical devices controls independently by connection max. 16 electronic output extenders OE 200
- Voltage supply: 9.6–14.4 V DC
- Rate of output: 24 V DC max. 1 A/125 V AC max. 500 mA (with 8 relay output ports) 12 V DC max. 500 mA per output port and max. 1,000 mA total (with 8 open collector output ports)
- Material: Plastic housing
- Colour: Housing light grey, power and data cable black

Supplied with
1 Electronic output extender OE 200 with main lead 500 mm
1 Data cable 500 mm
8 MSTB plugs 2.5/2-ST (only for 910.51.086)

Electronic output extender OE 200 Dialock

Output extender with 8 relay output ports
Орган підключення до система контрольованого використання OE 200 з 8 контактами

Output extender with 8 open collector output ports
Орган підключення до система контрольованого використання OE 200 з 8 контактами

Vin (power supply)

Vout (output voltage)

Data (Datain (from Terminals))

Data (Dataout (to OE 200))

Do not connect

Version

Cat. No.

Output extender OE 200 with 8 relay output ports

910.51.086

Output extender OE 200 with 8 open collector output ports

910.51.087

New products and systems: www.hafele.com

สมหมายเบียนและวัสดุการใหม่: www.hafele.com

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Energy control terminal
อุปกรณ์ควบคุมพลังงาน

Features
- **For indoor use:**
  Particularly suitable for use in hotels to activate electrical loads in guest rooms such as lighting, TV, sockets, air conditioning
- **Activation:** as long as a transponder card is inserted in the hold of the energy control terminal
- **Deactivation:** after a key card is taken out 15 seconds
- **With red LED**
- **Output current:** 30 A max. 110/220 V AC 50/60 Hz, (16 A max. if electrical load consists of induction load)
- **Max. total power consumption:** 6,600 W
- **Max. internal power consumption:** 0.2 W
- **Service life:** Min. 100,000 opening cycles
- **Operating temperature:** -10 – +60°C
- **Plastic housing**

**Technologies/types of key card**

<table>
<thead>
<tr>
<th>Technology/types of key card</th>
<th>Colour</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tag-it™ ISO Dialog</td>
<td>White</td>
<td>917.41.082</td>
</tr>
<tr>
<td></td>
<td>Silver coloured</td>
<td>917.41.083</td>
</tr>
<tr>
<td>Mifare</td>
<td>White</td>
<td>917.61.082</td>
</tr>
<tr>
<td></td>
<td>Silver coloured</td>
<td>917.61.083</td>
</tr>
</tbody>
</table>

**Flush mounted box for energy control terminal**

<table>
<thead>
<tr>
<th>Material/Colour</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plastic white</td>
<td>917.91.001</td>
</tr>
</tbody>
</table>

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### Electronic drop bolt

**Features**
- Adjustable delay time 0, 2.5, 5, 9 seconds
- Fail-safe (fail-unlocked)
- Door position monitor (N.O. and N.C.)
- Power voltage: 12 V DC
- Operation current: 900 mA
- Holding current: 360 mA
- Stainless steel

**Installation**

#### Glass bracket

**Features**
- Without glass cutting (rubber/steel plate for strong holding)
- Dimension: 90 x 27 x 40 mm
- Weight: 300 g

**Order reference**
Please order bracket for glass door separately

**Version**

<table>
<thead>
<tr>
<th>For single/ double swing direction</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>912.05.031</td>
<td></td>
</tr>
</tbody>
</table>

**For glass panel, glass thickness mm**

<table>
<thead>
<tr>
<th>For glass panel, glass thickness mm</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>9–12</td>
<td>912.05.039</td>
</tr>
</tbody>
</table>
Electronic Locking System

Electromagnetic lock

Features
- Holding force: 600 lbs (227 kg)
- Dual voltage selectable: 12 V DC or 24 V DC
- Current draw: 12 V DC/500 mA or 24 V DC/250 mA
- Dim. magnet (L x W x T): 250 x 42 x 25 mm
- Dim. armature plate (L x W x T): 180 x 38 x 11 mm
- Green/red LED indication for lock status
- Full range of optional brackets
- Material: Magnet casting aluminium anodized, armature plate steel

Voltage selection method

Installation

<table>
<thead>
<tr>
<th>Version</th>
<th>Cat. No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electromagnetic lock</td>
<td>912.05.035</td>
<td>Electromagnetic lock with LZ bracket</td>
</tr>
<tr>
<td>Electromagnetic lock with LZ bracket</td>
<td>912.05.041</td>
<td></td>
</tr>
</tbody>
</table>
### Locking and Security

#### Electronic Locking System

**Bracket for electromagnetic lock**

Cat. No. 912.05.035

ชุดขั้นตอนล็อคแม่เหล็กไฟฟ้า สำหรับอุปกรณ์ล็อคแม่เหล็กไฟฟ้า รหัสสินค้า 912.05.035

<table>
<thead>
<tr>
<th>Bracket</th>
<th>Dimension</th>
<th>Installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>LZ bracket</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U bracket</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DSU bracket</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Version</th>
<th>Door type</th>
<th>Opening direction</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>รุ่นแบบ</td>
<td>ชั้นประตู</td>
<td>ทิศทางการเปิด</td>
<td>รหัสสินค้า</td>
</tr>
<tr>
<td></td>
<td>บานประตู</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>บานประตู</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**New products and systems:** [www.hafele.com](http://www.hafele.com)

**Unlockable:** [www.hafele.com](http://www.hafele.com)
Electric door operator ECturn GEZE

**Features**
- Able to select operation modes "low energy", "automatic" and "automatic with push and go function"
- Durability 500,000 test cycles
- Accordance with DIN 18650
- In automatic mode operation can be adjustable
- Fully open door position adjustable

**Technical data**
- Power supply: 110–230 V
- Power consumption: 75 W
- Protection class: IP20
- Hold open time (adj.): 0–30 sec.
- Opening/closing speed (adj.): 9–90°/sec.

**Sliding channel application**

<table>
<thead>
<tr>
<th>Version</th>
<th>Installation</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECturn with standard arm</td>
<td>Push and pull side</td>
<td>935.01.165</td>
</tr>
<tr>
<td>ECturn with sliding channel</td>
<td>Push side</td>
<td>935.01.166</td>
</tr>
</tbody>
</table>

**Standard arm application**

**Features**
- Able to select operation modes "low energy", "automatic" and "automatic with push and go function"
- Durability 500,000 test cycles
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**Locking and Security**

**Electronic Locking System**

We reserve the right to alter specifications without notice (HTH Architectural Hardware 2015).
Power supply 12V with standby battery

Technical data
- Input voltage: 190–265 V AC/50–60 Hz
- Output voltage: 12 V DC (15% tolerance)
- Max. output current: 3 A
- Standby battery: 12 V/7Ah
- Output short-circuit protection
- Output current-limiting and over-voltage protection
- Standby battery voltage shutdown below 10.8 V DC

Relay lock with delay function

Technical data
- Supply voltage: 10–16 V DC
- Current Consumption: 40 mA per each triggered relay 12V DC
- Load: 1.5 A/28 V AC/DC
- Input resistance: 15 Ohm
- Triggering level: HIGH min. 5 V
- Triggering level: LOW max. 4 V
- Operating temperature: -25 – +60°C
- Relative humidity: 10–95% (without condensation)
- Weight: 46 g
Locking and Security
Electronic Locking System

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Locking and Security

Electronic Locking System

Slim push switch

Features
• Dimension (W x L x H): 23 x 77 x 20 mm

Material/Colour

<table>
<thead>
<tr>
<th>Feature</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plastic white</td>
<td>912.06.054</td>
</tr>
</tbody>
</table>

Cable transition model 10318

Features
• For power supply from door frame to door panel
• For flexible cable diameter: Up to 7 mm through
• Installation: Visible
• Max. length flexible hose (rust-proof metal): 180 mm

Material/Colour

<table>
<thead>
<tr>
<th>Feature</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plastic light grey</td>
<td>912.02.095</td>
</tr>
</tbody>
</table>

Square push switch

Features
• Dimension (W x L x H): 23 x 77 x 20 mm

Material/Colour

<table>
<thead>
<tr>
<th>Feature</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABS white</td>
<td>985.55.003</td>
</tr>
</tbody>
</table>

Cable transition model KUE 480

Features
• For power supply from door frame to door panel
• For flexible cable diameter: Up to 8 mm through
• Installation: Concealed
• Opening angle: Up to 180°

Material/Finish

<table>
<thead>
<tr>
<th>Feature</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel matt</td>
<td>912.02.010</td>
</tr>
</tbody>
</table>

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New products and systems: www.hafele.com

ผลิตภัณฑ์และระบบใหม่: www.hafele.com

13.02.2015
Locking and Security
Electronic Locking System

Reader box
กล้องมัลนิสสำหรับหัวอ่านบัตร

Features
• For drill hole diameter: 68 mm
• For plate thickness: 7–35 mm

Material/Colour วัสดุ/สี  Cat. No. รหัสสินค้า
Plastic orange โพลิเมอร์สีส้ม 917.91.012

Hat rail
รางยึดอุปกรณ์

Features
• Standard: In compliance with EN 50 022
• Length: 2,000 mm

Material/Finish วัสดุ/สี  Cat. No. รหัสสินค้า
Steel yellow chromatized เหล็กเหลืองแตกผิว 917.91.024

Spindle 8 mm, split in center
แกนม้อช่วงแยกครึ่งแกนม้าต 8 มม.

Features
• For drill hole diameter: 68 mm
• For plate thickness: 7–35 mm

Material/Finish วัสดุ/สี  Cat. No. รหัสสินค้า
Steel yellow chromatized เหล็กเหลืองแตกผิว 917.91.024

Bolt switching contact 875-10
สวิชชิ่งตัวติดกอนกระแส 875-10

Features
• Switches when the lock bolt is extending
• Version: Change-over contact, waterproof
• Installation: With M 4 screws, installation behind existing striking plate, min. dimension for bolt throw = response distance of bolt switching contact + air gap.
• Max. contact voltage: 25 V
• Max. switching current: 1.5 A
• Connecting cable length: 4 m
• Max. contact travel: 18 mm
• Response distance: Approx. 4 mm

Material/Finish วัสดุ/สี  Cat. No. รหัสสินค้า
Housing zinc alloy ตัวถังอลูมิเนียมซิงค์ 912.02.093