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DOCUMENTATION A1 SERIES

Table of content

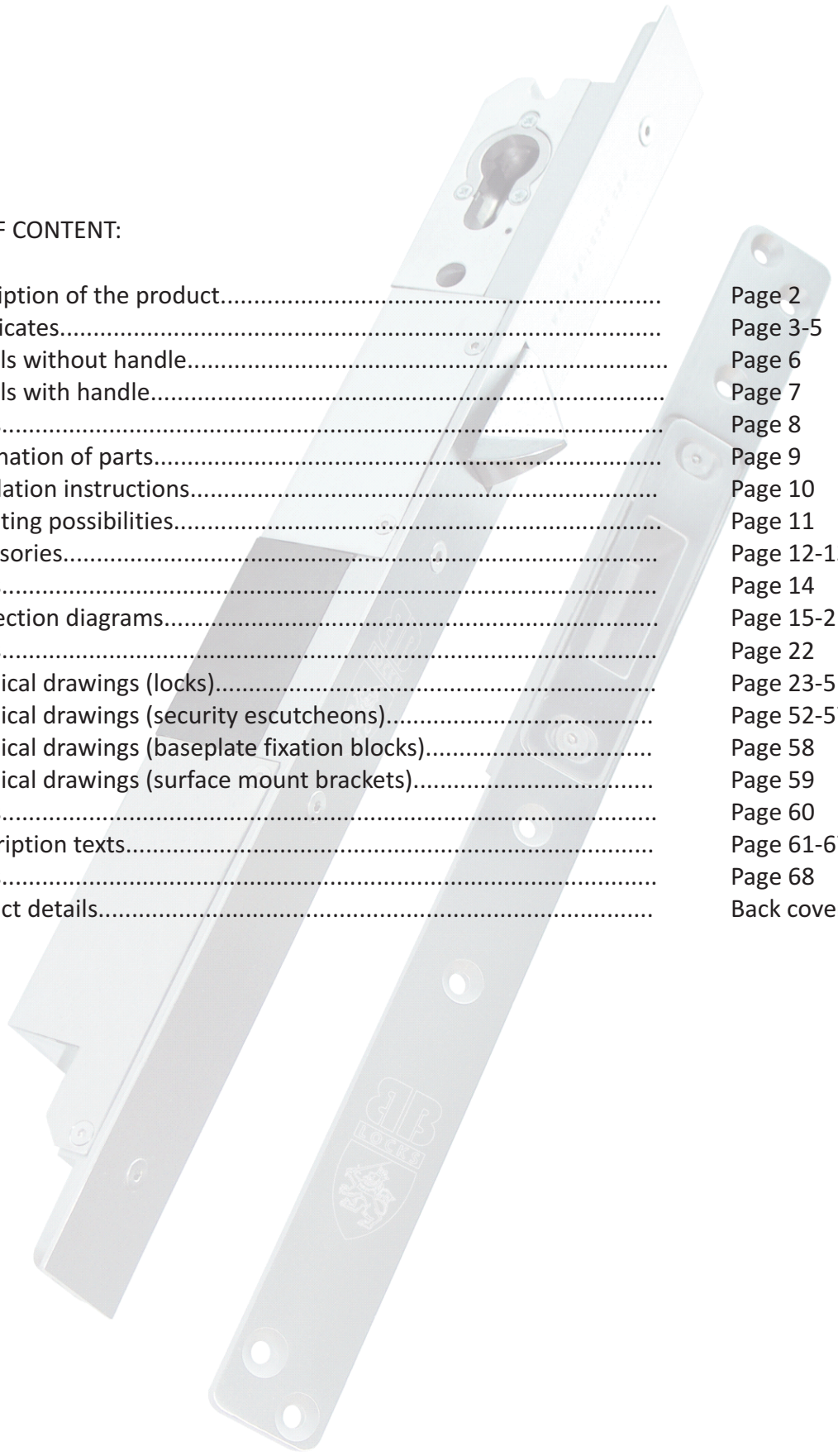


TABLE OF CONTENT:

DESCRIPTION:

The B&B Locks A1-series are electrical security locks of superior quality. Because of their very solid construction, these locks offer an extreme high resistance against all forms of agression and burglary attempts and are suitable for intensif use. To ensure a fast and precise action, the hardened locking components are driven by a powerful solenoid. This solenoid was especially designed to have the best possible balance between activation and holding current. A low power consumption and very little heating are additional advantages thereof. Unlocking is done by giving an impulse with a push button, card reader, code, fingerprint or any other type of impulse generator. Mechanical unlocking is always possible using a key. The automatic locking mechanism guarantees that the door will be locked as soon as it closes, which makes a closed door automatically a secured door.

CHARACTERISTICS:

- 24V DC stabilized (+/- 5%)consumption:
  2,2 A activation current (<0,2sec)
  130 mA holding current
- controlled and manageable access
- immediately locked (on the main bolt with a throw of 20mm) when the door closes
- mechanical opening with the cylinder is always possible
- from the inside the lock (HX and HE) can always be opened mechanically using the handle or panic bar (emergency exit)
- integrated signalisation of the bolt position (unlocked / locked)
- integrated signalisation of the door position (open / closed)
- integrated signalisation of the use of the cylinder
- integrated signalisation of the use of the handle
- stainless steel locking components, cylinder block, baseplate and striker plate
- the locking components are mounted on the solid baseplate using 6mm axes, which improves the free movement of the components and the lifespan of the lock
- integrated microprocessor controlled intelligence
- anti-saw pin in the bolt
- striker plates (standard or adjustable) with cast on striker cup
- PCB protected in a polyurethane casted resin
- door detection by 3 Hall-sensors
- tested to achieve 1.000.000 cycles
- tested to a frequency of 600 cycles a day
- bolt resistance up to 40.000 N lateral force
- unlocking under considerable lateral pressure is possible
- specially designed security escutcheons (SE-17, SE-22, SEK-17, SEH-17, SEH-22 and SEHK-17) are available (optional)
- available for both 17mm and 22mm cylinders
- available in backsets of 25, 30, 35, 50 & 60mm (SA, SX & SE models)
- available in backsets of 35 & 60mm (HX & HE models)
- available with 2 cylinder openings (PSX, PSE & PME models)
- distance from handle to cylinder is 72mm (HX & HE models)
- tumbler 9 mm (complete bolt retraction at 30° tumbler rotation) - (HX & HE models)

Certificates:

- EN14846:2008

CERTIFICATE: 0960-CPR-SKGIKOB.009752.01.EN
SKG-IKOB - ITT (report nr.): 13.00921
Declaration of Performance (doc. nr.): DoP1011 (available on our website)

PRODUCT AND DESCRIPTION: A1 fail secure series:
A1B__SX, A1B__SE, A1B__PSX, A1B__PSE
A1B__HX, A1B__HE
A1SRC__SX, A1SRC__SE, A1SRC__PSX, A1SRC__PSE
A1SRC__HX, A1SRC__HE

Category of use	**3**	High frequency of use in public buildings
Durability and load on latchbolt	**M**	200'000 cycles with 25N sideload
Door mass and closing force	**9**	Above 200 Kg, closing force max. 15N
Suitebility for use on fire/smoke doors	**C**	Suitable for use on smoke/fire doors (30 min.)
Safety	**0**	-
Corrosion resistance, temperature and humidity	**L**	High resistance (96h), -25°C to +70°C, level 2
Security	**7**	Very high security with drill resistance
Security - electrical function	**1**	Status indication
Security - electrical manipulation	**1**	Electrostatic discharge EN 61000-4-2 level 2

CERTIFICATE: SKGIKOB.009753.01.EN
SKG-IKOB - ITT (report nr.): 13.00921

PRODUCT AND DESCRIPTION: A1 fail safe series:
A1B__SANOCYL, A1B__SA, A1B__PSA
A1SRC__SANOCYL, A1SRC__SA, A1SRC__PSA

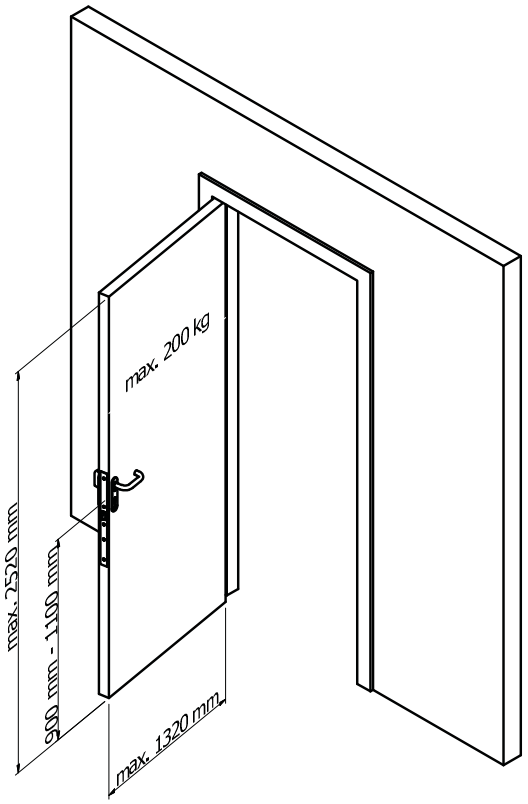
Category of use	**3**	High frequency of use in public buildings
Durability and load on latchbolt	**M**	200'000 cycles with 25N sideload
Door mass and closing force	**9**	Above 200 Kg, closing force max. 15N
Suitebility for use on fire/smoke doors	**0**	Not intended for use on smoke/fire doors
Safety	**0**	-
Corrosion resistance, temperature and humidity	**L**	High resistance (96h), -25°C to +70°C, level 2
Security	**7**	Very high security with drill resistance
Security - electrical function	**1**	Status indication
Security - electrical manipulation	**1**	Electrostatic discharge EN 61000-4-2 level 2

Certificates:

- EN179:2008

CERTIFICATE:	0960-CPR-SKGIKOB.009758.01.EN
IFT - ITT (report nr.):	13-000057-PR05
Declaration of Performance (doc. nr.):	DoP1013 (available on our website)
PRODUCT AND DESCRIPTION:	*A1 lock series with handle:* A1B__HX, A1B__HE, A1B__HA A1SRC__HX, A1SRC__HE, A1SRC__HA *In combination with one of the following lever handles:* SEH-17 SEH-22

Category of use	**3**	High frequency of use (little care + chance of incidence and misuse)
Durability	**7**	200'000 test cycles
Door mass	**6**	up to 200 Kg
Suitebility for use on fire/smoke doors	**B**	Suitable for use on smoke/fire doors (EN1634-1)
Safety	**1**	Safety function
Corrosion resistance	**4**	240 h (very high resistance)
Security	**5**	5000 N
Projection of operating element	**2**	projection up to 100mm (standard projection)
Type of operation	**A**	Emergency exit device with "lever handle" operation
Field of door application	**B**	Outwardly opening single exit door only

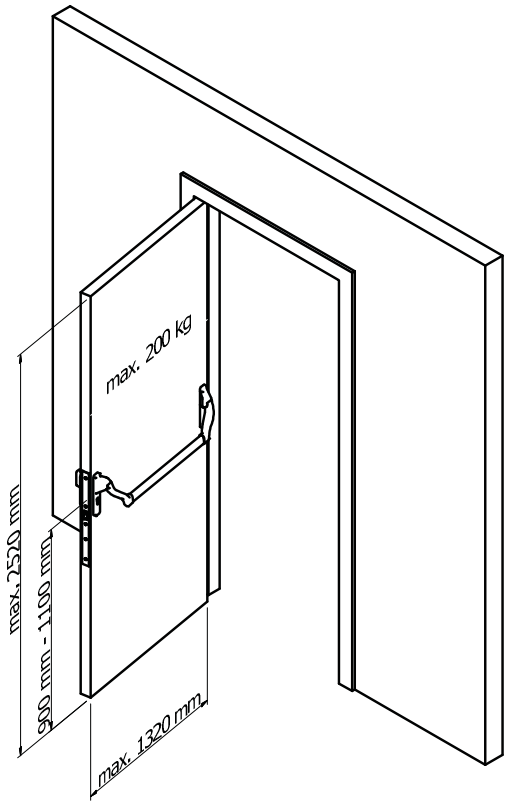


Certificates:

- EN1125:2008

CERTIFICATE:	0960-CPR-SKGIKOB.009760.01.EN
IFT - ITT (report nr.):	13-000057-PR06
Declaration of Performance (doc. nr.):	DoP1014 (available on our website)
PRODUCT AND DESCRIPTION:	*A1 lock series with handle:* A1B__HX, A1B__HE, A1B__HA A1SRC__HX, A1SRC__HE, A1SRC__HA *In combination with Push-bar:* Push-bar ECO EPN 900 II-IV Push-bar ECO EPN 950

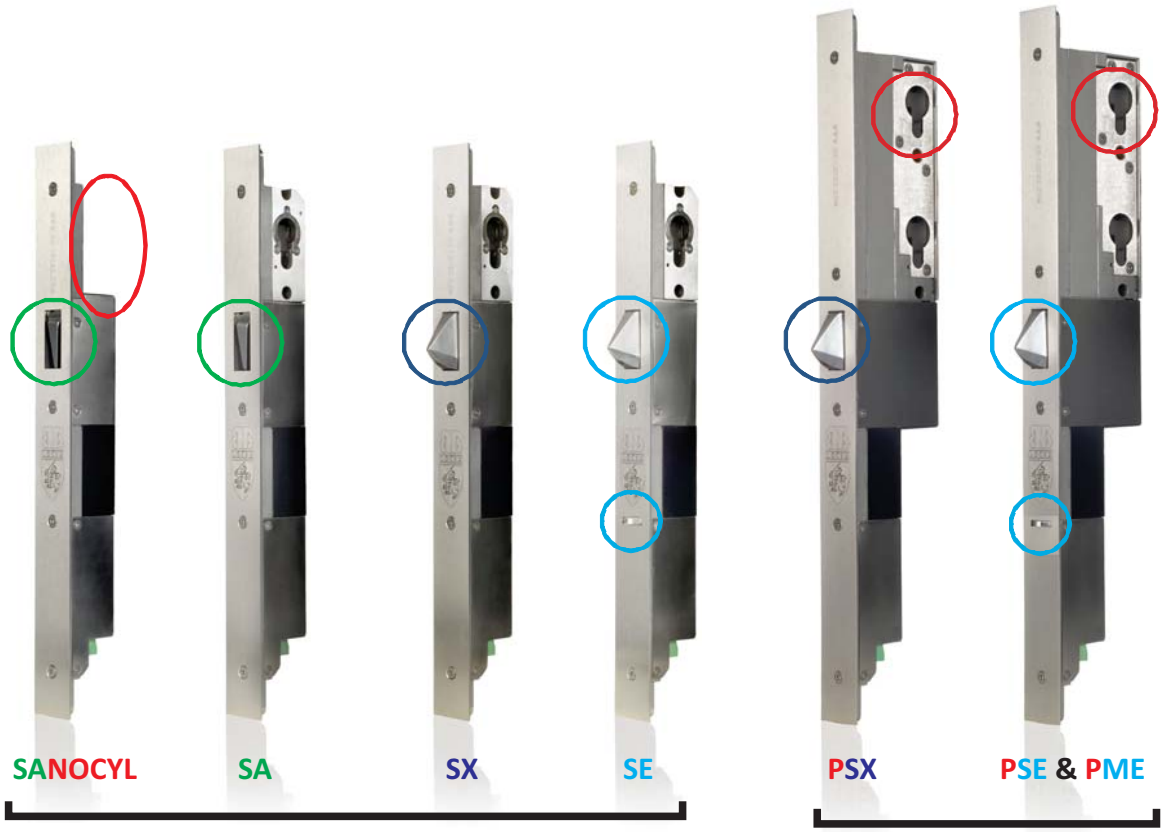
Category of use	**3**	High frequency of use (little care + chance of incidence and misuse)
Durability	**7**	200'000 test cycles
Door mass	**6**	up to 200 Kg
Suitebility for use on fire/smoke doors	**B**	Suitable for use on smoke/fire doors (EN1634-1)
Safety	**1**	Safety function
Corrosion resistance	**4**	240 h (very high resistance)
Security	**2**	Grade 2, only one grade
Projection of operating element	**2**	projection up to 100mm (standard projection)
Type of operation	**A**	Panic exit device with "push-bar" operation
Field of door application	**B**	Single door only



- DIN18251 - part 1

40'000N resistance to lateral force on the bolt.

Models without handle



AVAILABLE BACKSETS : 25, 30, 35, 50 & 60 mm

AVAILABLE BACKSETS : 35 & 60 mm

SANOCYL : unlocked without power - without cylinder block
SA : unlocked without power - with cylinder block (mechanical opening always possible with key)
SX : locked without power - with cylinder block (mechanical opening always possible with key)
SE : locked without power (only when door is closed) - with cylinder block (mechanical opening always possible with key)
PSX : locked without power - with 2 cylinder holes
PSE : locked without power (only when door is closed) - with 2 cylinder holes
PME : mechanical version - unlocking by cylinder; automatic locking when door closes

Standard Striker Plate with striker cup 3mm

Adjustable Striker Plate with striker cup 6mm

Both the standard striker plate (SSP) and the adjustable striker plate (ASP) have a cast on striker cup protecting the bolt. The ASP has the big advantage of being easily adjustable in case the lock and the striker plate need to get aligned better.

Standard Striker Plate with striker cup
3mm

Adjustable Striker Plate with striker cup
6mm

AVAILABLE BACKSETS : 35 & 60 mm

Both the standard striker plate (SSP) and the adjustable striker plate (ASP) have a cast on striker cup protecting the bolt. The ASP has the big advantage of being easily adjustable in case the lock and the striker plate need to get aligned better.

HX : Locked without power. Mechanical opening with key is always possible from both sides. Mechanical opening with the handle is always possible from the secure side.

HE : Locked without power (only when the door is closed). Mechanical opening with key is always possible from both sides. Mechanical opening with the handle is always possible from the secure side.

The handle on the inside mechanically retracts the locking components, always granting you an authorised exit. These HX and HE versions of the A1 locks are therefore suitable for emergency exit doors and are certified for **EN179** and **EN1125** European standards.

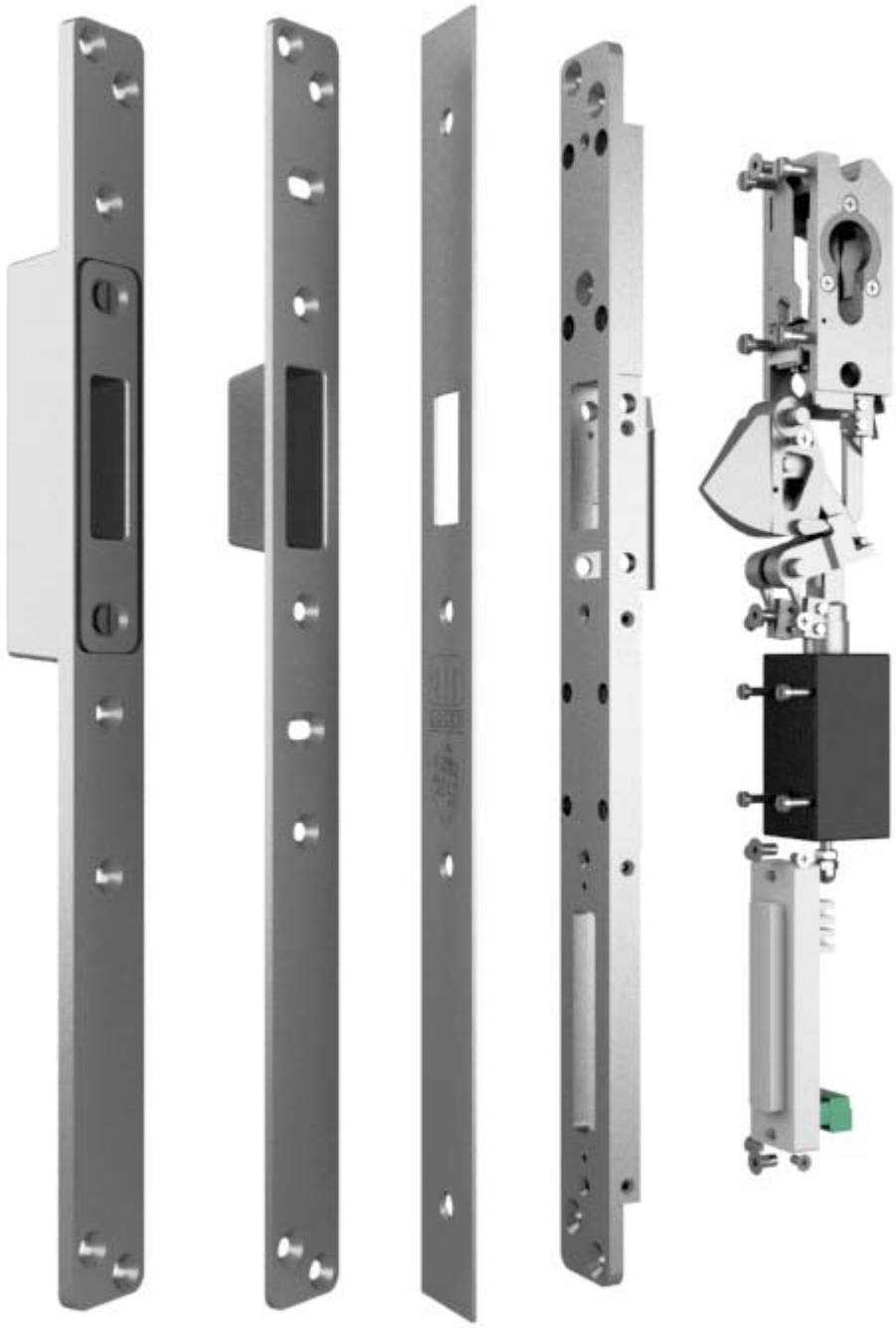
In some cases it might be desirable to prevent people from exiting a building freely. In that case a master-slave combination (of different A1 locks) can be installed. The „slave“ will need an unlock impuls from an authorised person or alarm; the „master-lock“ will be unlucked with the handle. Please contact us for more detailed information regarding possible combinations.

Notes

The **STRIKER PLATES** are strong stainless steel plates with cast on striker cups. The standard version (SSP) is 3mm thick, the adjustable version (ASP) 6mm.
These striker plates have 3 permanent magnets built in, which are detected by 3 hall-sensors on the pcb in the lock for door signalisation purposes.

The strength as well as the reliability of these locks is mainly due to the fixation of locking components on a solid **BASEPLATE** using 6mm axes.

The **CYLINDER BLOCK** is a solid cast part, which makes it possible to use both 17mm europrofile and 22mm round profile cylinders.



The **LOCKING COMPONENTS** are hardened duplex parts. Due to their design they tend to lock more when pressure is applied on them. In combination with a high resistance to lateral force this results in a lock offering you a great solution against burglary and vandalism attemps.

The locking components are driven by a strong SONENOID, which creates a fast locking/unlocking action. It also allows us to return to a desired position in case of a power failure (retracted in the fail safe version and locked in the fail secure version).
This solenoid is custom made for this lock optimizing the balance between activation current and holding current as well as keeping consumption fairly low (resulting in very little heat gereration).

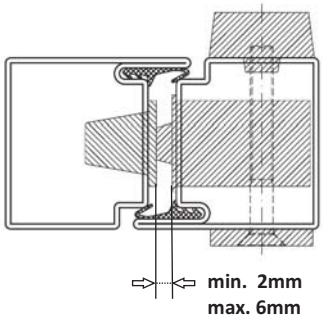
The lock has microprocessor based intelligence built in due to an **INTERNAL PRINTED CIRCUIT BOARD**, which is mounted in a plastic housing in the lock and protected in a polyurethane casted resin in order to better resist humidity, salt, etc.

Both striker plates offer a great protection of the bolt because of their cast on striker cup. The additional advantage of the adjustable stiker plate (ASP) is the fact that the striker cup can be easily adjusted 2mm to the left and 2mm to right if necessary.

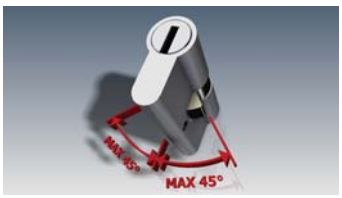
Installing **a SECURITY ESCUTCHEON** greatly improves the protection against agression on the cylinder. These security escutcheons are massive cast parts in stainless steel, fixed through the lock and door with 2 x M8 screws.

Please make sure the following installation requirements are met to ensure the correct functioning of your B&B A1 electro-mechanical lock :

- Use BB25LSZH cable (2 x 1,5mm² + 5 x 0,22mm² - shielded).
- Use 24V DC regulated POWER SUPPLY of minimum 2,5A per lock.
- Make sure the distance between the power supply and the lock is maximum 25m.
- Measure the voltage coming to the lock and make sure that this never drops below 22,8V (24V DC +/- 5%) - important especially when the solenoid is activated! In case of a voltage drop on the line one can increase the TRIM 2 on the PS24D52 power supply (factory setting = 2).
- Make sure the distance between the lock and striker plate is min. 2mm and max. 6mm.



- Make sure the lock and striker plate are installed in a proper matter where the 2 are perfectly aligned (in closed door position they should be straight across from each other, both laterally and in height).
- Make sure that there is no friction on the bolt when being ejected and retracted (this should be tested after installation of the rubbers on the profile).
- Make sure the holes for inserting the cylinder are large enough so the cylinder can be easily installed without being forced.
- Only cylinders with the lever at 5 and 7 (o'clock) can be used:



- **DO NOT FILE with the lock already installed!** Filings that end up in or around the lock will be attracted when the solenoid is activated and will eventually damage the lock. Compressed air can be used to clean out the lock if necessary.
- Do not use grease or oil in the locks. The necessary areas have been libricated during the assembly at the factory.
- A standard revision is recommended aftre 300'000 cycles or 5 years.
- Make sure the door is equipped with adequate hinges (according to door size and weight) to avoid „hanging" of the door.
- Make sure the door is equipped with an adequate door closer (according to door size and weight) !

Please note that in order for the lock to function correctly the above mentioned specifications need to be strictly followed. B&B LOCKS b.v.b.a. can not be held accountable for on-site interventions and reparations under warranty if the installation was not done according to these specific instructions !

Sanocyl
SA
SX
SE

Sanocyl
SA

Sanocyl
SA
SX
SE
HX
HE

BASEPLATE FIXATION BLOCKS (BFB)

A1 locks can of course also be installed in existing doors. Since it is not always easy to make very accurate adaptions to a door when you are on site, we have developed Baseplate Fixation Blocks (**BFB-1**). Using these blocks the A1 lock will end up flush mounted on the profile (when profile used is 2mm).

SURFACE MOUNT BRACKETS (SMB)

In case it is impossible to install the A1 lock in the door or the door frame because of its dimensions, a surface mount apllication may be considered. The Surface Mount Bracket (SMB) consists of 2 mounting blocks and 1 stainless steel cover (these need to be ordered seperately for the lock AND for the striker plate). Installation is on the secure side!

B&B 24V DC STABILIZED POWER SUPPLY - PS24D52

- 24V Power Supply for 2 locks with back-up battery connexion
  CON1 = INPUT 220V/50Hz 120VA
  CON2 = connection to back-up batteries (3 x 12V)
  CON3 = Extra output 12V/DC maximum 0,2A
  CON4 = Output 24V/DC, 4A peak, 1A continuous (LOCK1)
  CON5 = Output 24V/DC, 4A peak, 1A continuous (LOCK2)
- All outputs have a short-circuit protection, in case of a short circuit on the 24V, LED1 will illuminate.
- In case of overheating because of a surcharge, LED1 will also indicate an error.
- A possible voltage drop (which is possible over a long line) can partially be compensated by adjusting the TRIM2 (current compensation in power supply). The principle is such that the outgoing voltage only increases when a voltage peak is needed (not continuously).

BB25LSZH CABLE

Cable with 2 x ø1,5mm and 5 x ø0,22mm wires + shielding

RED	: power +24V
BLUE	: GND (0V)
BLACK	: unlucking impulse (to GND)
BROWN	: bolt signal
YELLOW	: door signal
GREEN	: key signal
GREY	: handle signal

CB1 - PUSH BUTTON WITH BOLT & DOOR SIGNALIZATION

The CB1 control box has the following functions:

- push button (1 time opening)
- rocker switch (continuous opening)
- bolt status signalization LED's
- door status signalization LED's

REL-1 (POTENTIAL FREE CONTACTS BOLT & DOOR)

Turns the bolt and door signals coming from the A1-BASIC lock into potential free outputs.

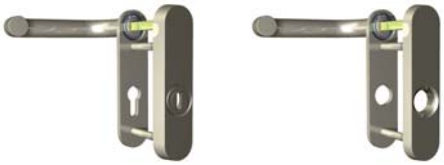
REL-4 (POTENTIAL FREE CONTACTS BOLT, DOOR, KEY & HANDLE)

Turns the bolt, door, key and handle signals coming from the A1-BASIC lock into potential free outputs.

(see page 18-19 for connection diagram)

B&B SE17 (for models SA, SX & SE)
Security escutcheon for 17mm europrofile cylinder.
B&B SE22 (for models SA, SX & SE)
Security escutcheon for 22mm Swiss cylinder.

B&B SEK17 (for models SA, SX, SE, HX & HE)
Security escutcheon for 17mm europrofile cylinder with a fixed knob on both the inside and outside.



B&B SEH17 (for models HX & HE)
Security escutcheon with handle for 17mm europrofile cylinder.
B&B SEH22 (for models HX & HE)
Security escutcheon with handle for 22mm Swiss cylinder.

B&B SEHK17 (for models HX & HE)
Security escutcheon for 17mm europrofile cylinder with a handle on the inside and a fixed knob on the outside.

BFB-1 (BASEPLATE FIXATION BLOCK)
In order to make the installation of the A1 locks in existing doors easier. Using these blocks the A1 lock will end up flush mounted on the profile (when the profile used is 2mm).

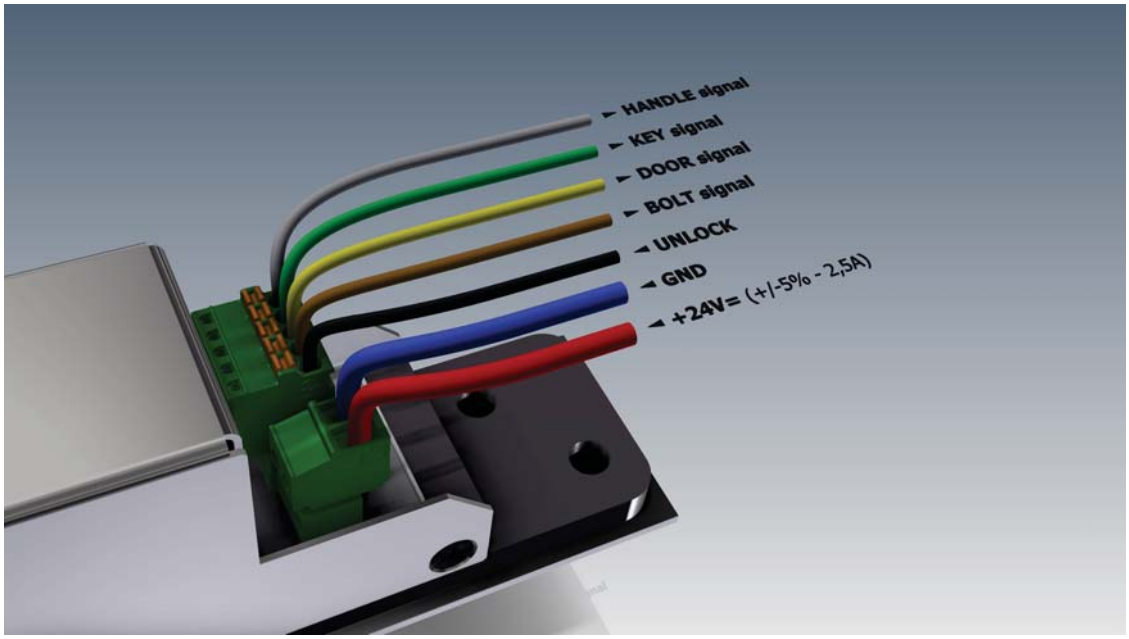
SMB (SURFACE MOUNT BRACKET)
The surface mount bracket (**SMB**) consists of 2 fixation blocks and 1 stainless steel cover. The installation needs to be done on the secure side of the door and can be vertical as well as horizontal.
Available models:

- **SMB-SN**: for the A1 Sanocyl and the striker plate - this cover has no cylinder opening
- **SMB-L**: for the A1 with backset 30mm and 17 or 22mm cylinder, when the lock is installed to the Left of the striker plate; fixation holes are made for mounting the security escutcheons (SE-17 or SE-22). In case the security escutcheon is not used cylinder cover plates are available (CC-17 and CC-22 for 17 and 22mm cylinders respectively)
- **SMB-R**: idem, but used when the lock is installed to the Right of the striker plate
- **SMBH-L**: for the A1 with backset 35mm and 17 or 22mm cylinder, when the lock is installed to the Left of the striker plate; fixation holes are made for mounting the security escutcheons with handle (SEH-17 or SEH-22).
- **SMBH-R**: idem, but used when the lock is installed to the Right of the striker plate

Notes

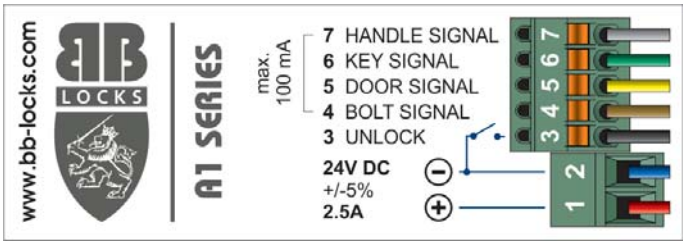
CONNECTION DIAGRAMS

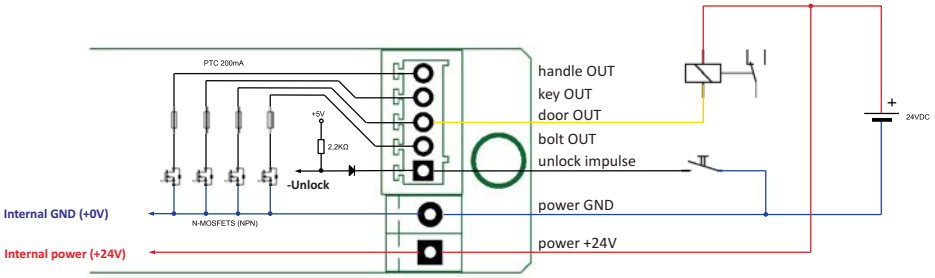
Notes



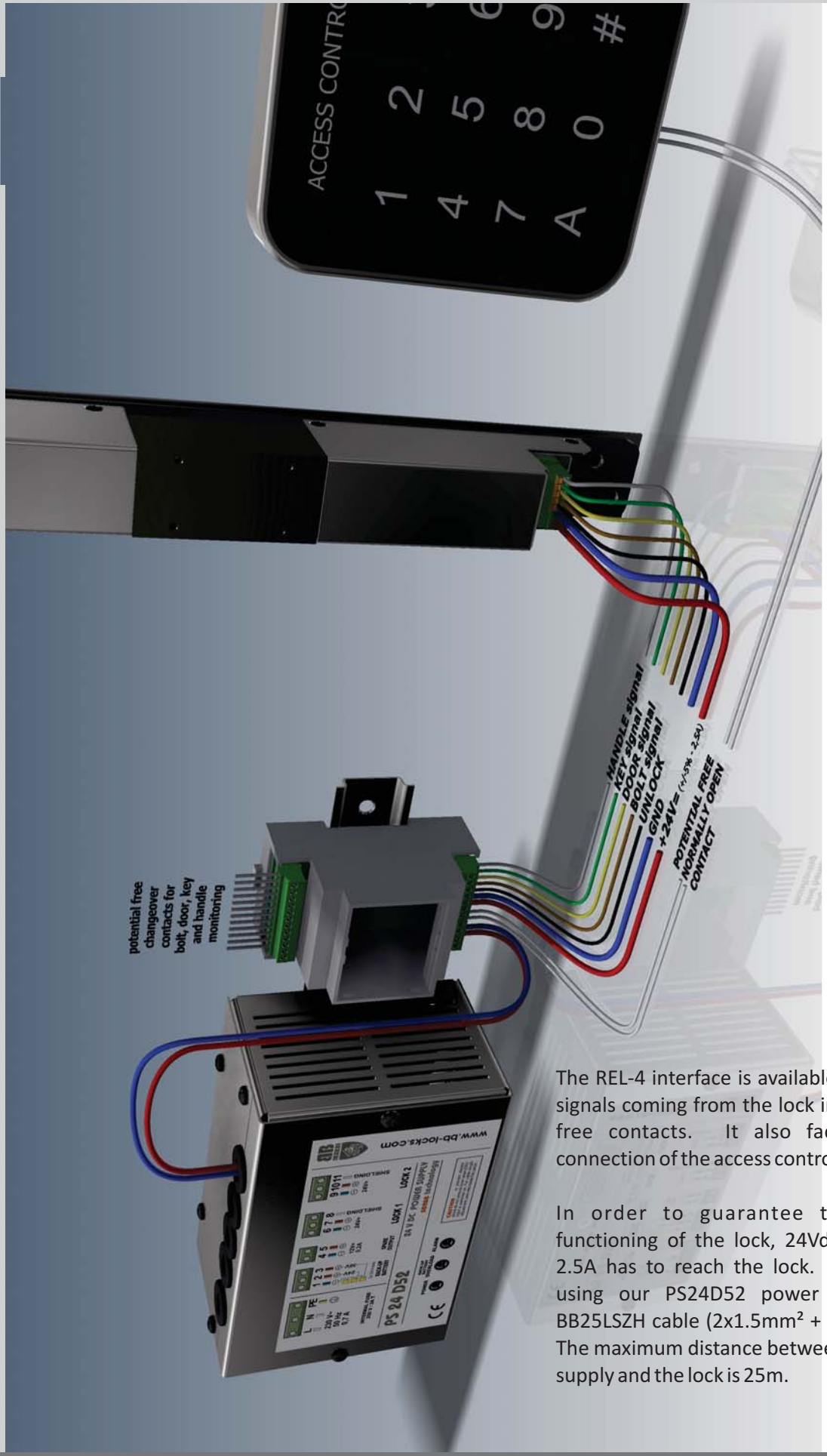
CONNECTOR 1 (2-pole):
pin 1 = +24Vdc +/- 5%, 2.5A (red, 1.5 mm²)
pin 2 = GND (blue, 1.5 mm²)

CONNECTOR 2 (5-pole):
pin 3 = UNLOCK - opening impulse - NO contact connects pin 2 (GND) and pin 3 to unlock (black, 0.22 mm²)
pin 4 = BOLT SIGNAL - transistorswitch to GND when bolt is locked - max. charge 100mA (brown, 0.22 mm²)
pin 5 = DOOR SIGNAL - transistorswitch to GND when door is closed - max. charge 100mA (yellow, 0.22 mm²)
pin 6 = KEY SIGNAL - transistorswitch to GND when key is used - max. charge 100mA (green, 0.22 mm²)
pin 7 = HANDLE SIGNAL - transistorswitch to GND when handle is used - max. charge 100mA (grey, 0.22 mm²)



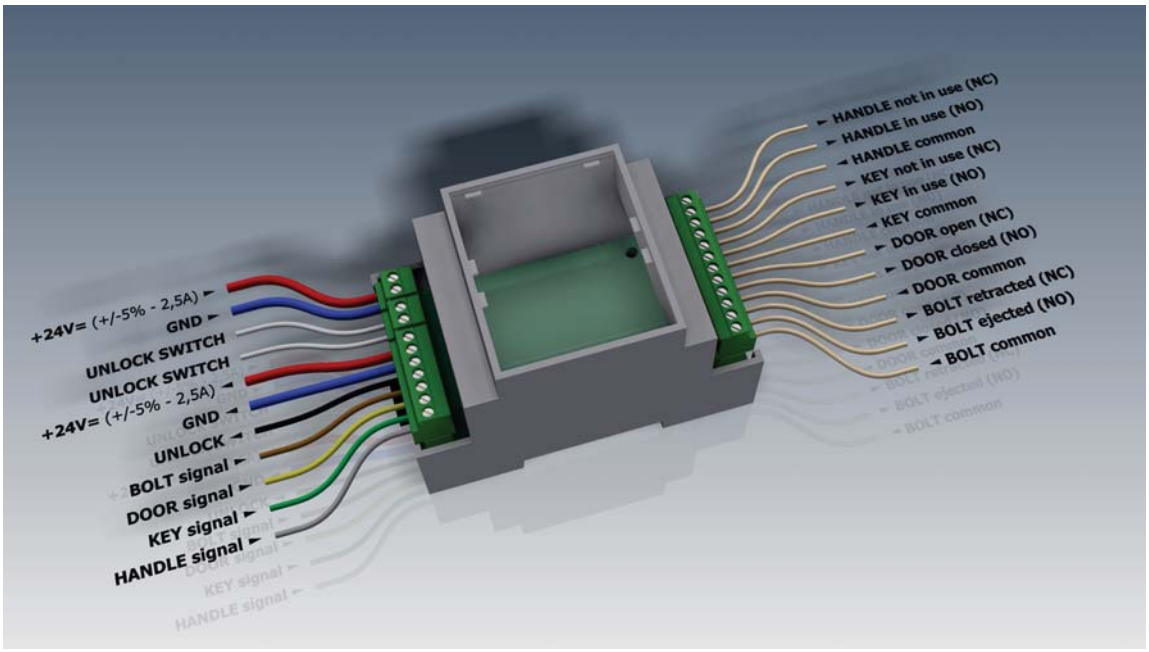


A1 BASIC - connection diagram with REL-4



The REL-4 interface is available to turn the signals coming from the lock into potential free contacts. It also facilitates the connection of the access control.

In order to guarantee the correct functioning of the lock, 24Vdc (+/- 5%) / 2.5A has to reach the lock. We suggest using our PS24D52 power supply and BB25LSZH cable (2x1.5mm² + 5x0.22mm²). The maximum distance between the power supply and the lock is 25m.



REL-4 interface: DIN Rail box with user friendly Phoenix plug-in screwconnectors.

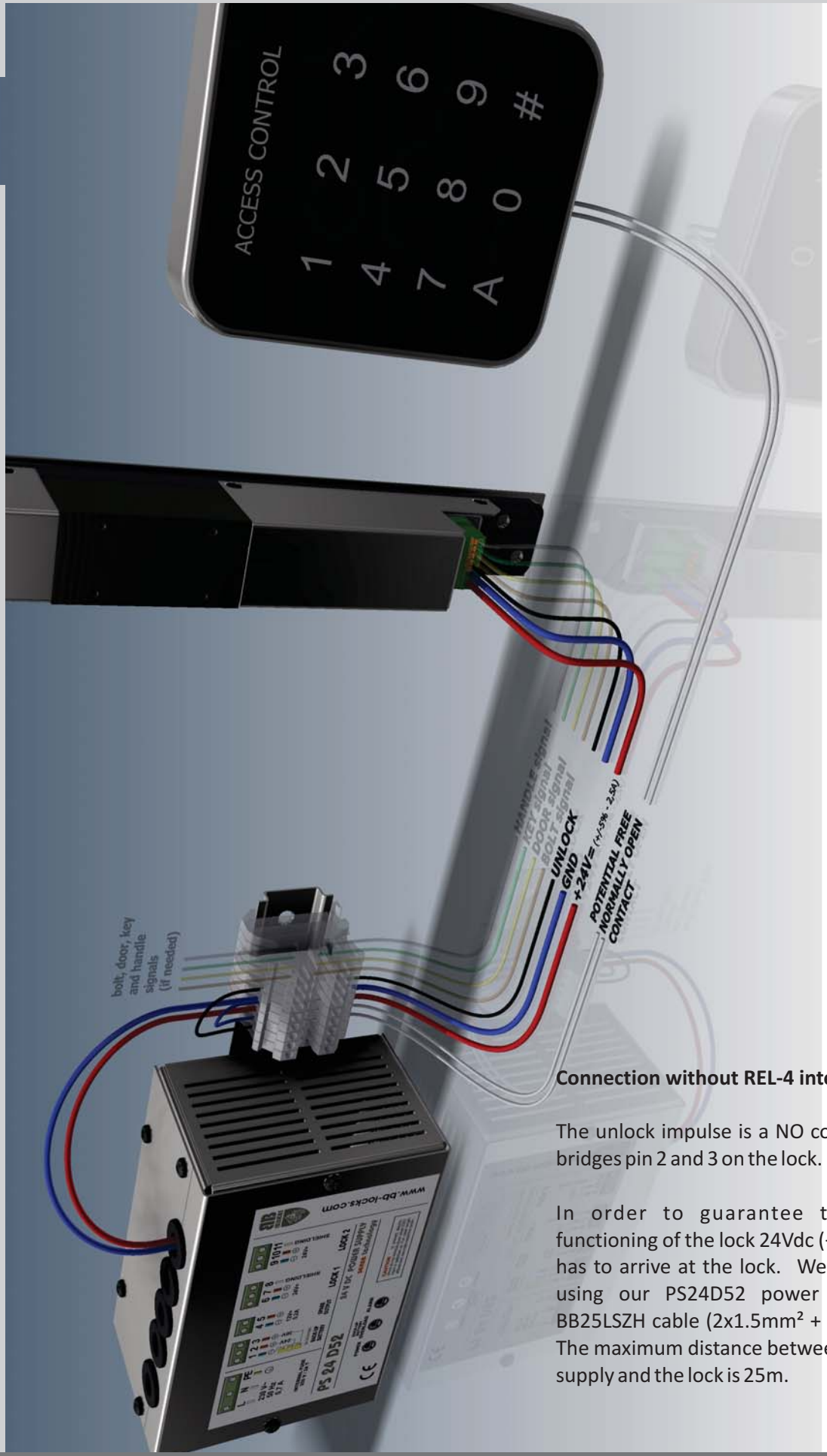
- Inputs:

CONNECTOR 1 (2-pole) - connection to the power supply:
pin 1 = +24Vdc +/- 5%, 2.5A (red, 1.5 mm²)
pin 2 = GND (blue, 1.5 mm²)
CONNECTOR 2 (2-pole) - unlocking impulse:
pin 1
pin 2] UNLOCK - NO contact connecting pin 2 (GND) to pin 3 to unlock
CONNECTOR 3 (7-pole) - connection to the lock:
pin 1 = +24Vdc +/- 5%, 2.5A (red, 1.5 mm²)
pin 2 = GND (blue, 1.5 mm²)
pin 3 = UNLOCK - unlocking impulse (black, 0.22 mm²)
pin 4 = BOLT SIGNAL (brown, 0.22 mm²)
pin 5 = DOOR SIGNAL (yellow, 0.22 mm²)
pin 6 = KEY SIGNAL (green, 0.22 mm²)
pin 7 = HANDLE SIGNAL (grey, 0.22 mm²)

- Outputs:

CONNECTOR 1 (12-pole) - potential free outputs:
pin 1 = BOLT common
pin 2 = BOLT locked (NO)
pin 3 = BOLT unlocked (NC)
pin 4 = DOOR common
pin 5 = DOOR closed (NO)
pin 6 = DOOR open (NC)
pin 7 = KEY common
pin 8 = KEY in use (NO)
pin 9 = KEY not in use (NC)
pin 10 = HANDLE common
pin 11 = HANDLE in use (NO)
pin 12 = HANDLE not in use (NC)

A1 BASIC - connection diagram without REL-4

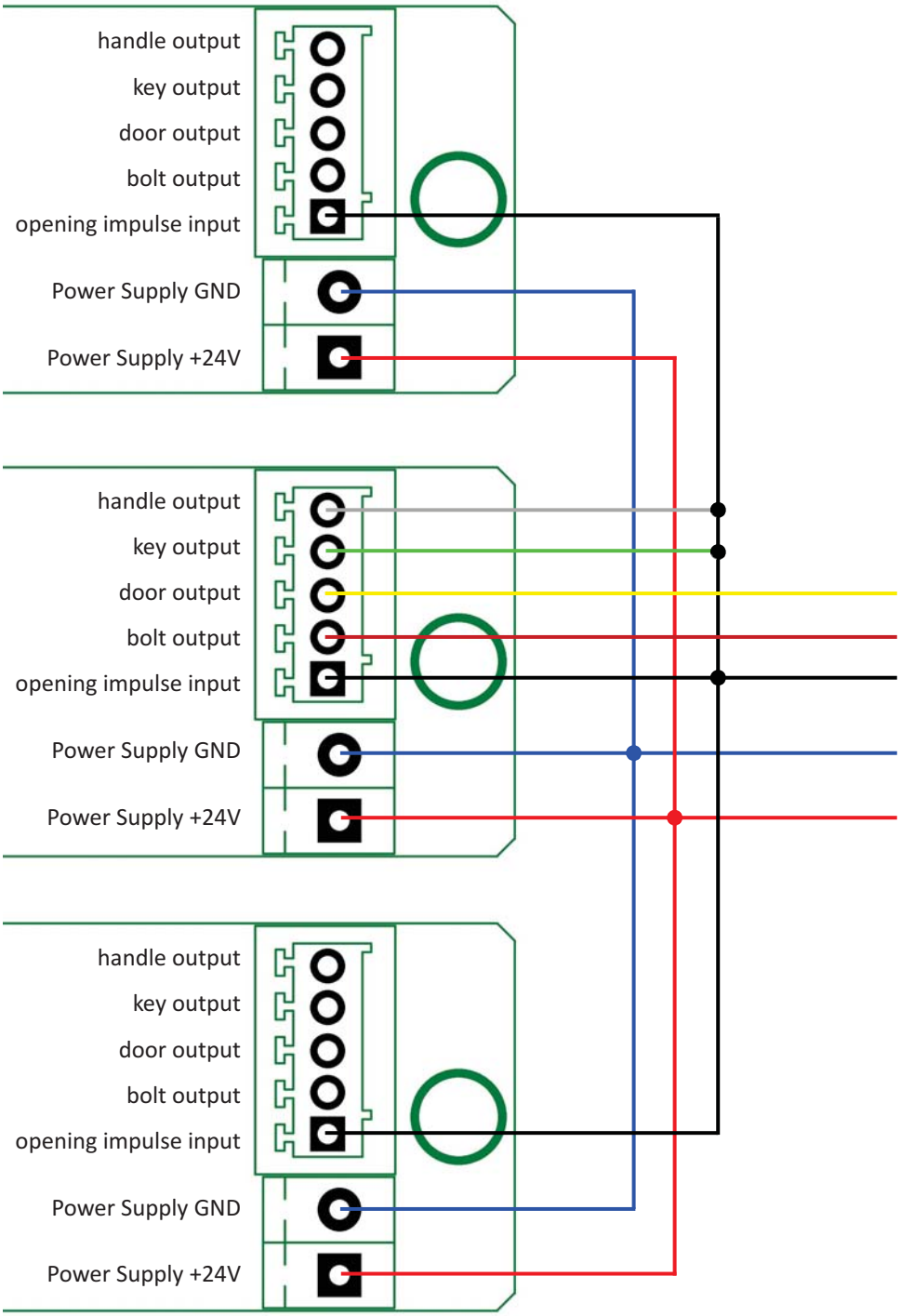


Connection without REL-4 interface:

The unlock impulse is a NO contact, which bridges pin 2 and 3 on the lock.

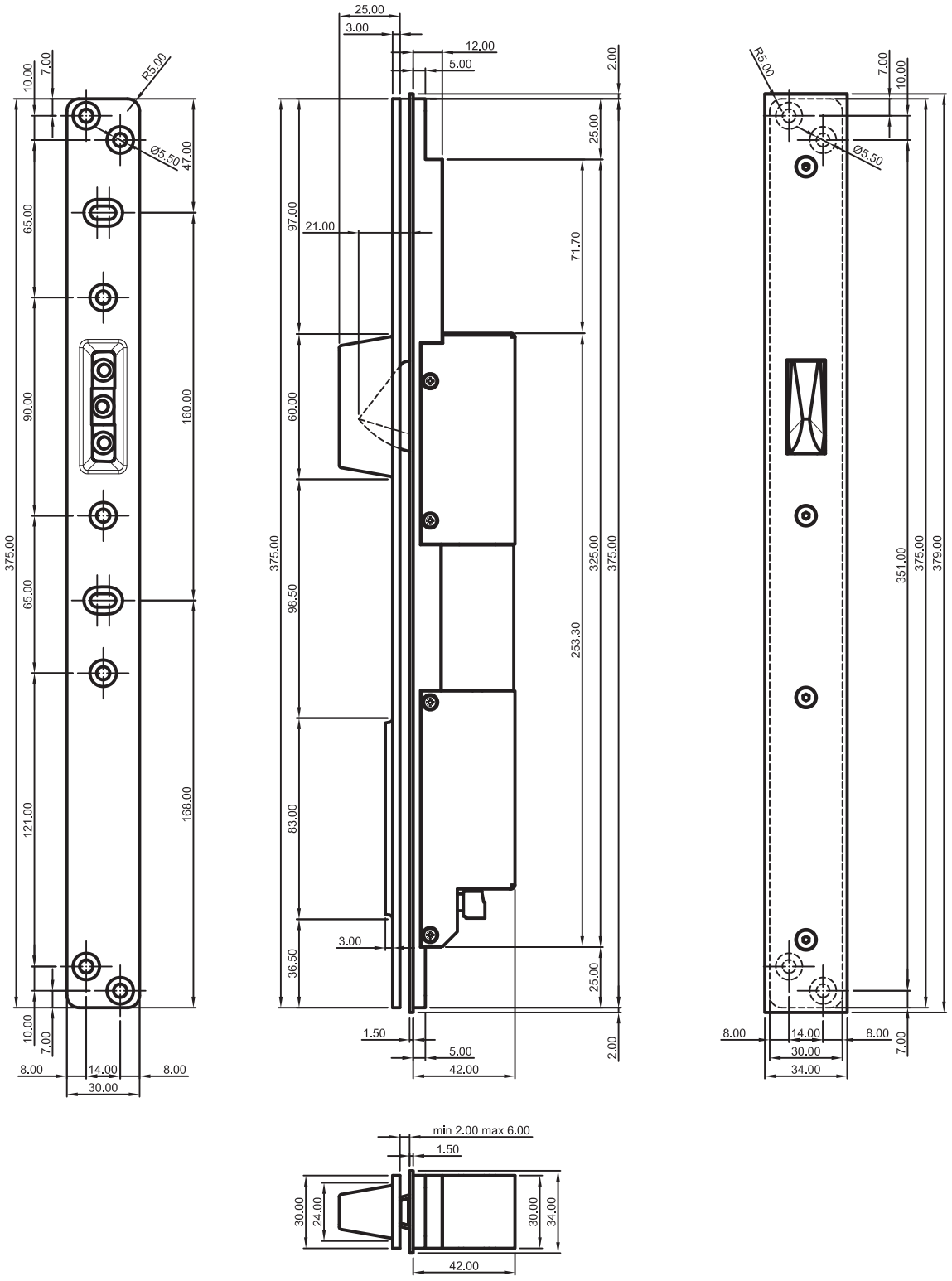
In order to guarantee the correct functioning of the lock 24Vdc (+/-5%) / 2.5A has to arrive at the lock. We recommend using our PS24D52 power supply and BB25LSZH cable (2x1.5mm² + 5x0.22mm²). The maximum distance between the power supply and the lock is 25m.

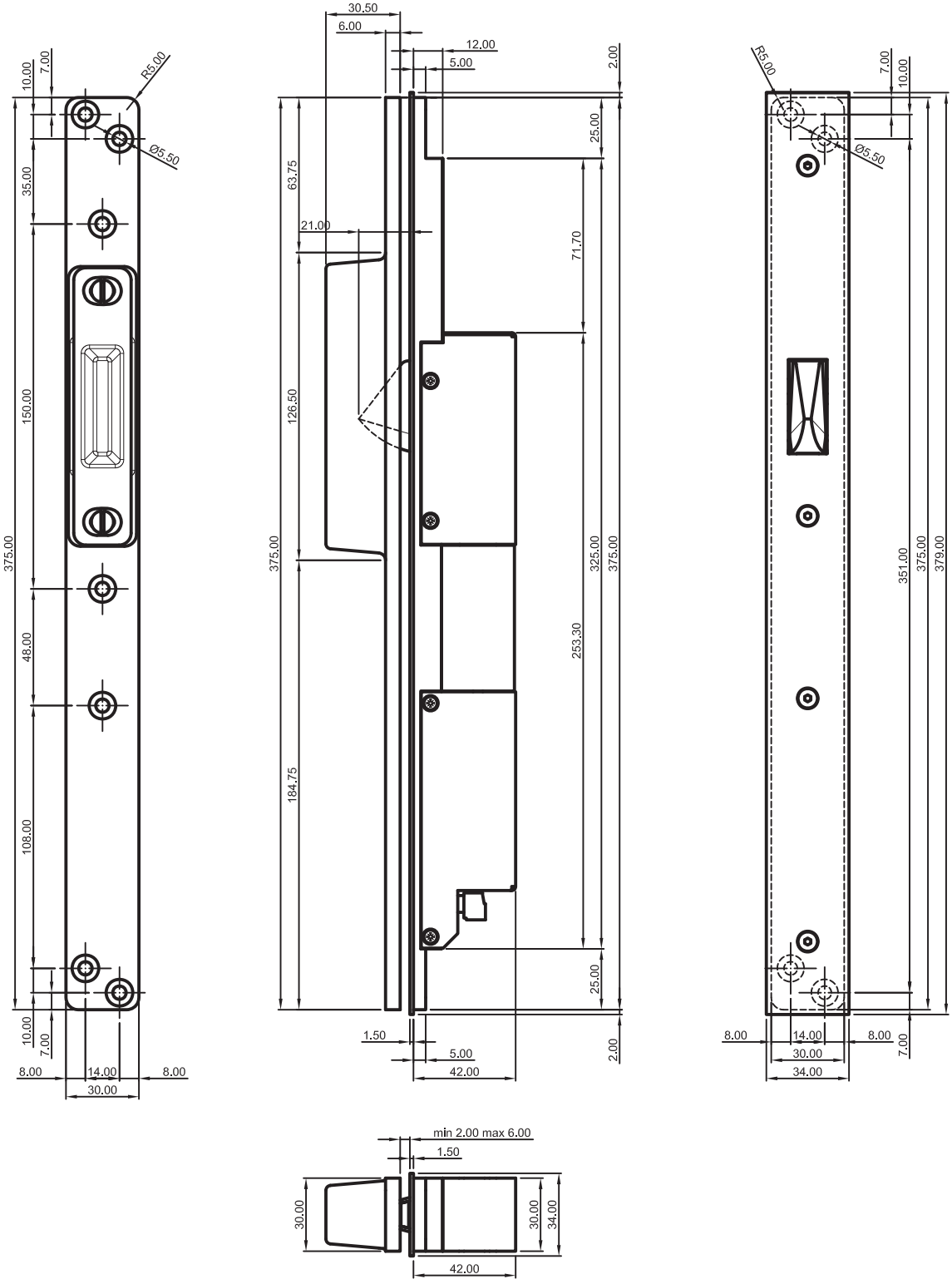
It is possible to mount multiple A1 locks on 1 door in a „master-slave“ configuration to obtain a multi-point locking system:



Notes

TECHNICAL DRAWINGS


10.00
7.00
R5.00
Ø5.50
47.00
65.00
90.00
160.00
375.00
65.00
121.00
168.00
8.00
14.00
30.00
25.00
3.00
12.00
5.00
2.00
97.00
21.00
71.70
60.00
98.50
253.30
325.00
83.00
36.50
1.50
42.00
min 2.00 max 6.00
24.00
34.00
351.00
379.00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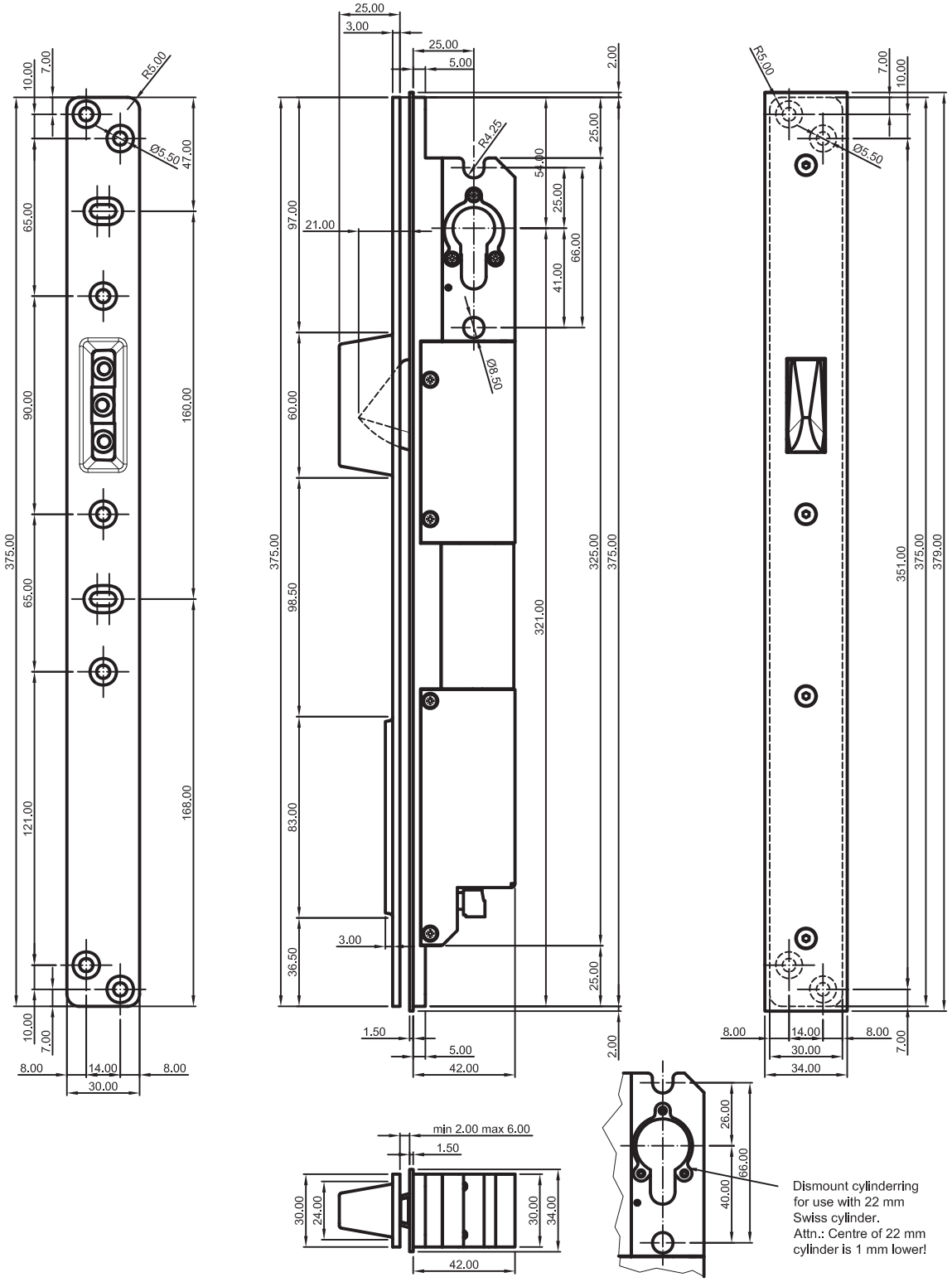
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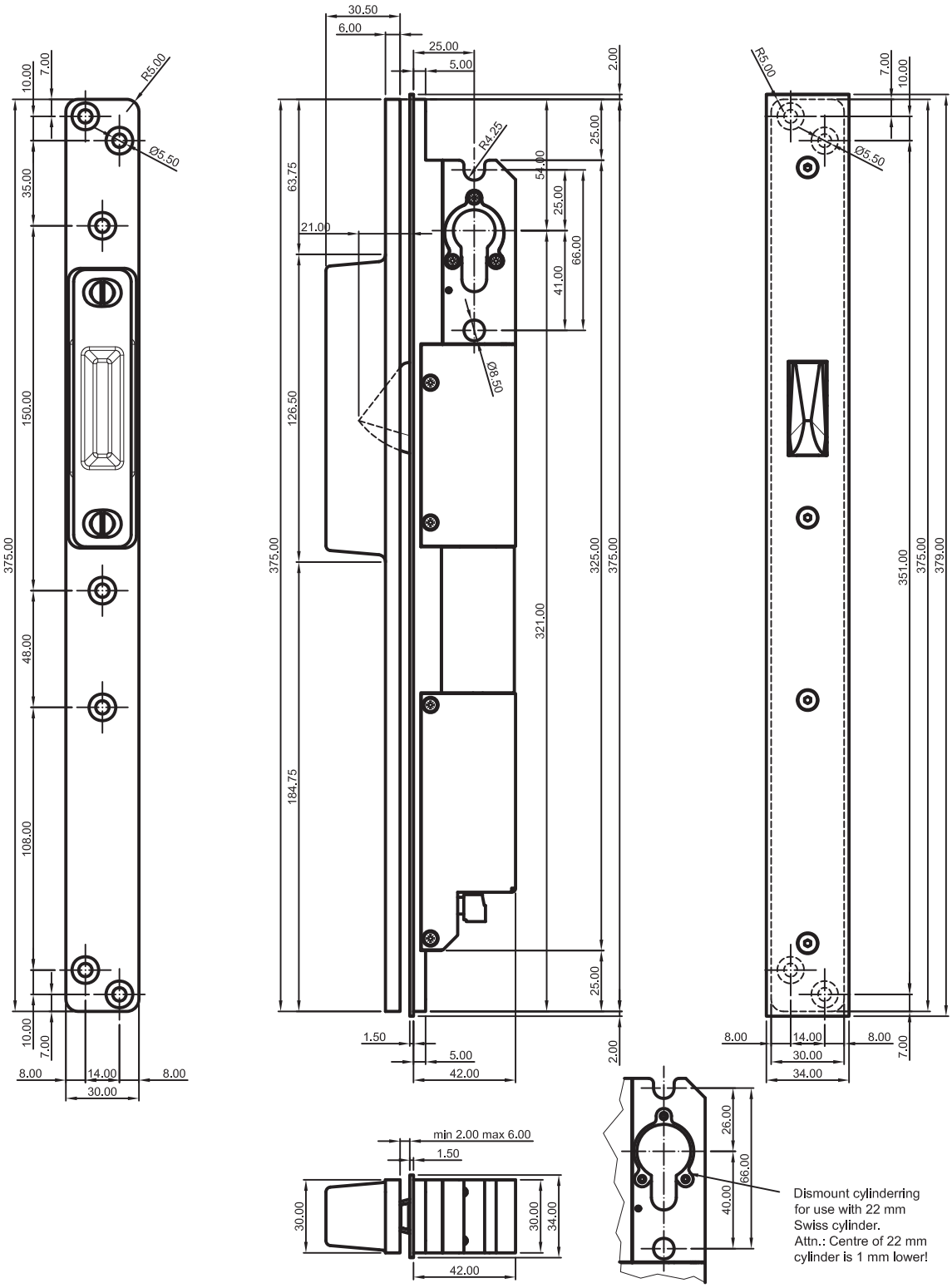
Dismount cylinderring
for use with 22 mm
Swiss cylinder.
Attn.: Centre of 22 mm
cylinder is 1 mm lower!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Dismount cylinderring
for use with 22 mm
Swiss cylinder.
Attn.: Centre of 22 mm
cylinder is 1 mm lower!
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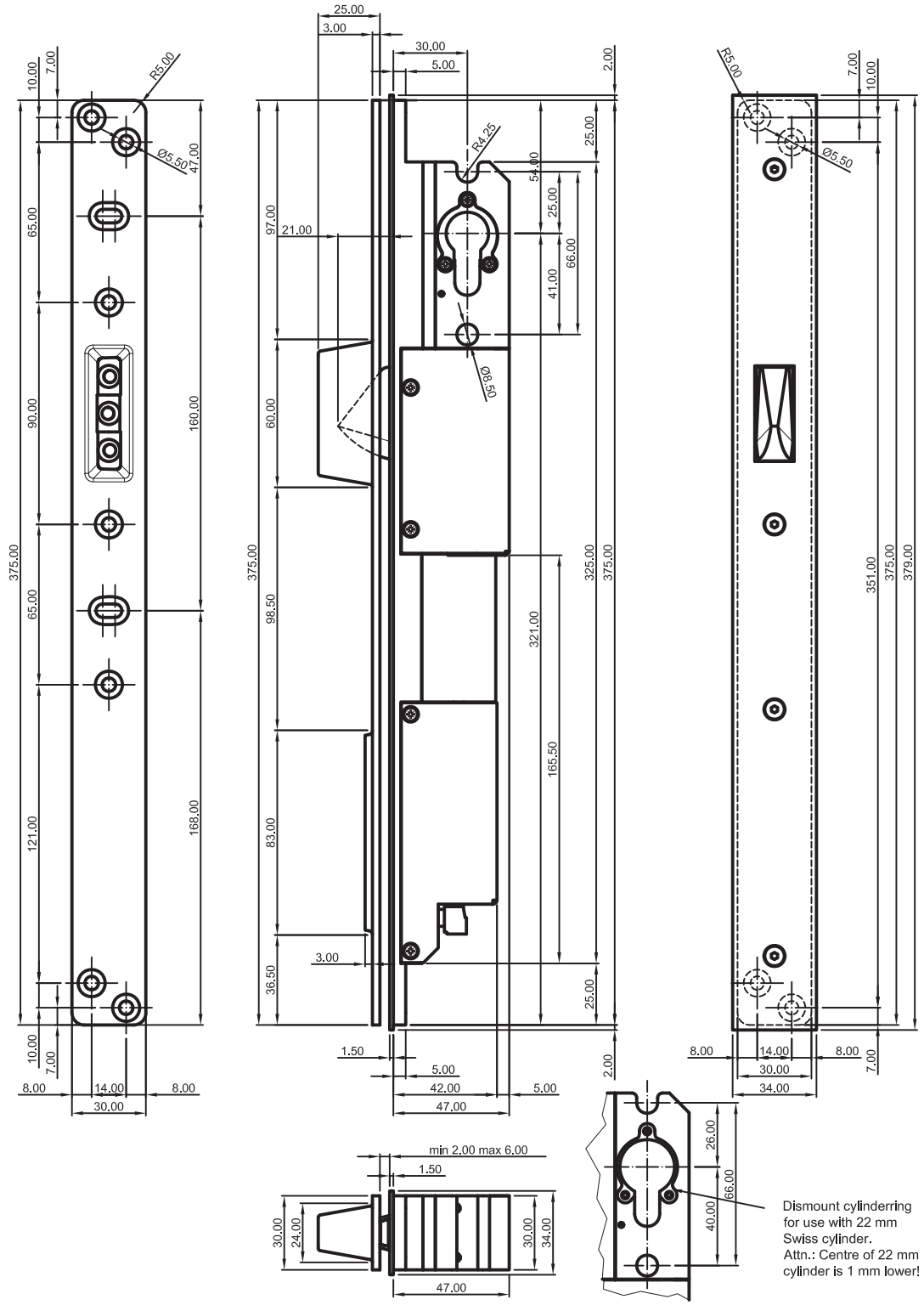
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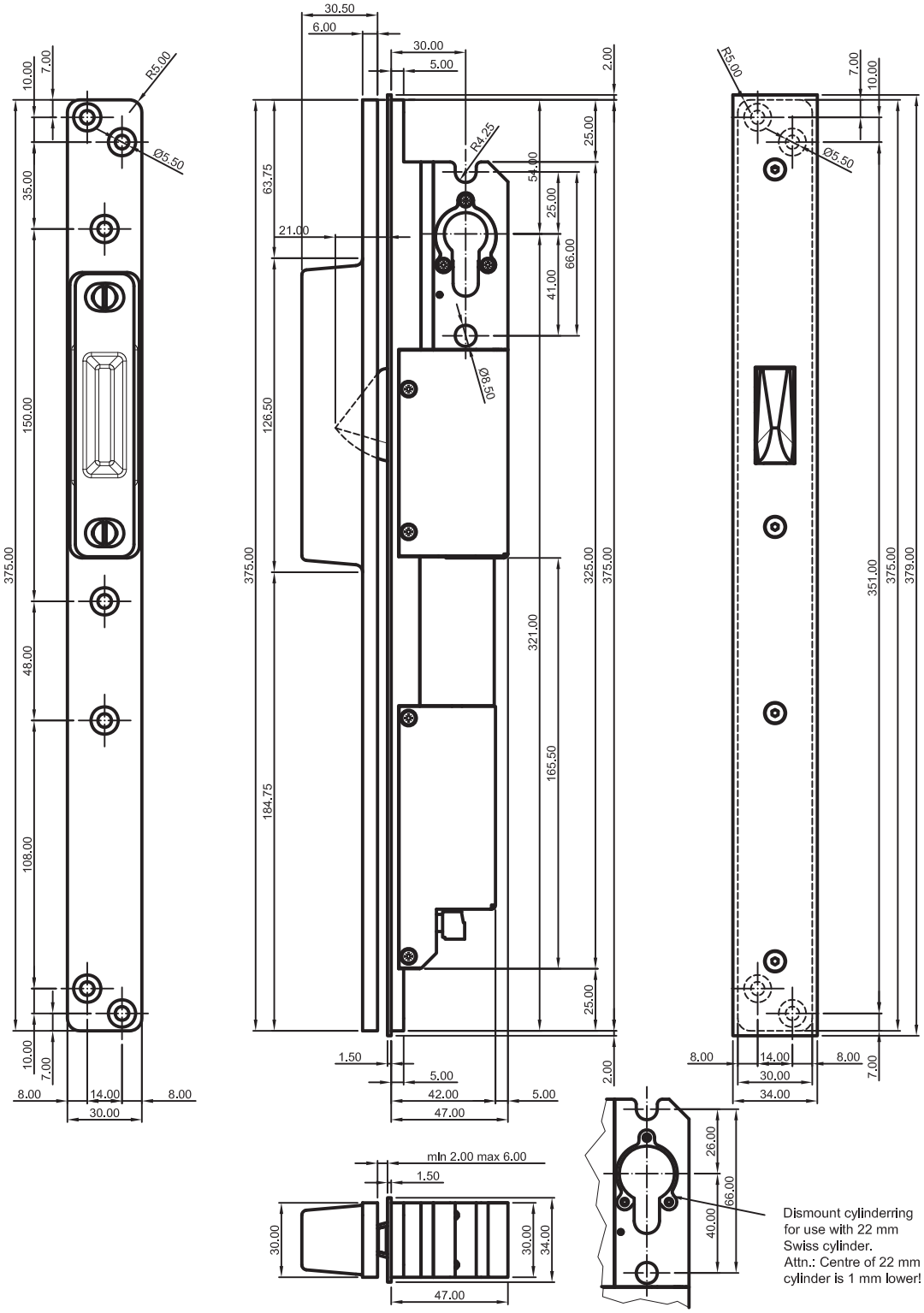
Dismount cylinderring
for use with 22 mm
Swiss cylinder.
Attn.: Centre of 22 mm
cylinder is 1 mm lower!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Dismount cylinderring
for use with 22 mm
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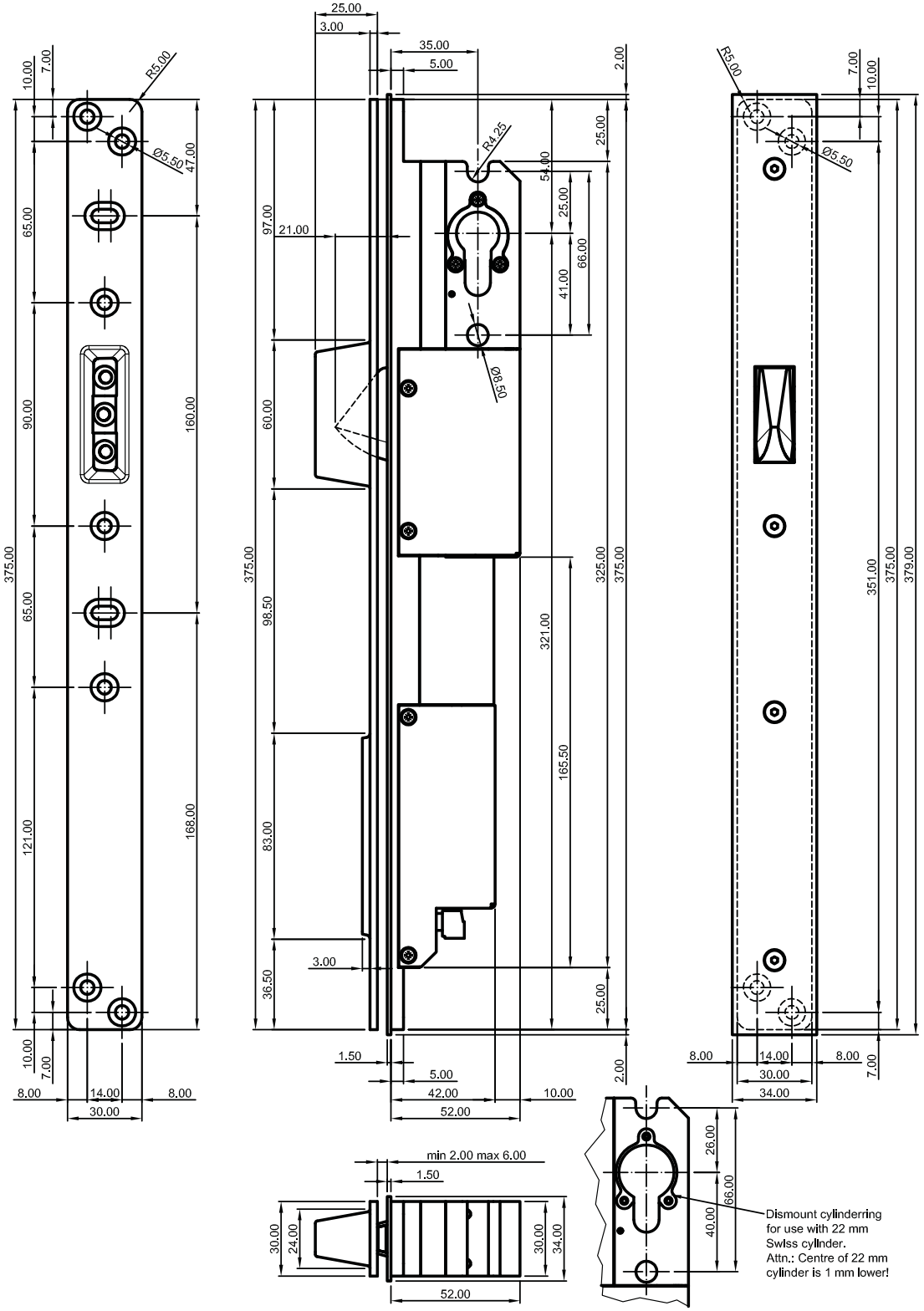
Attn.: Centre of 22 mm
cylinder is 1 mm lower!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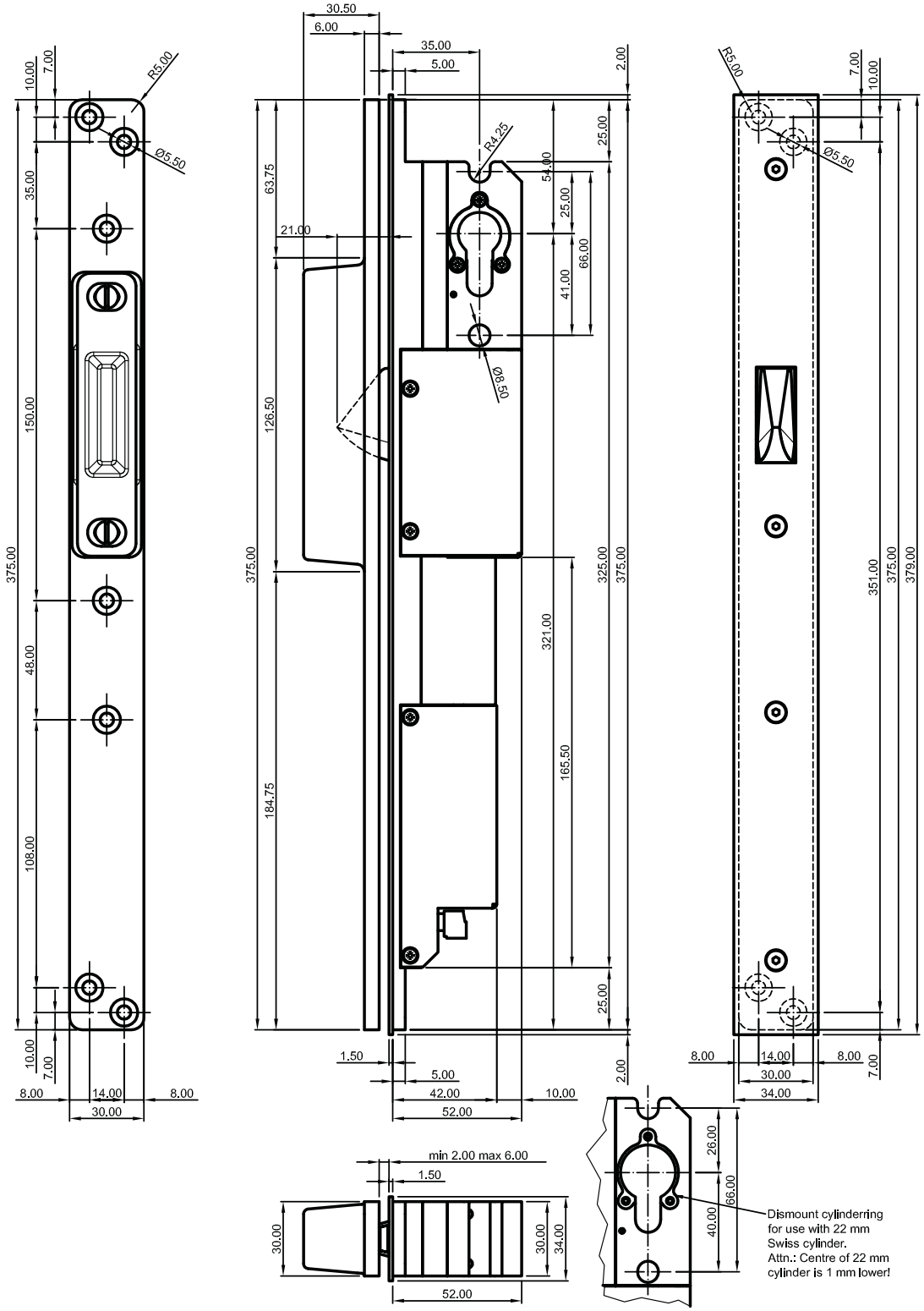
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Dismount cylinderring
for use with 22 mm
Swiss cylinder.
Attn.: Centre of 22 mm
cylinder is 1 mm lower!
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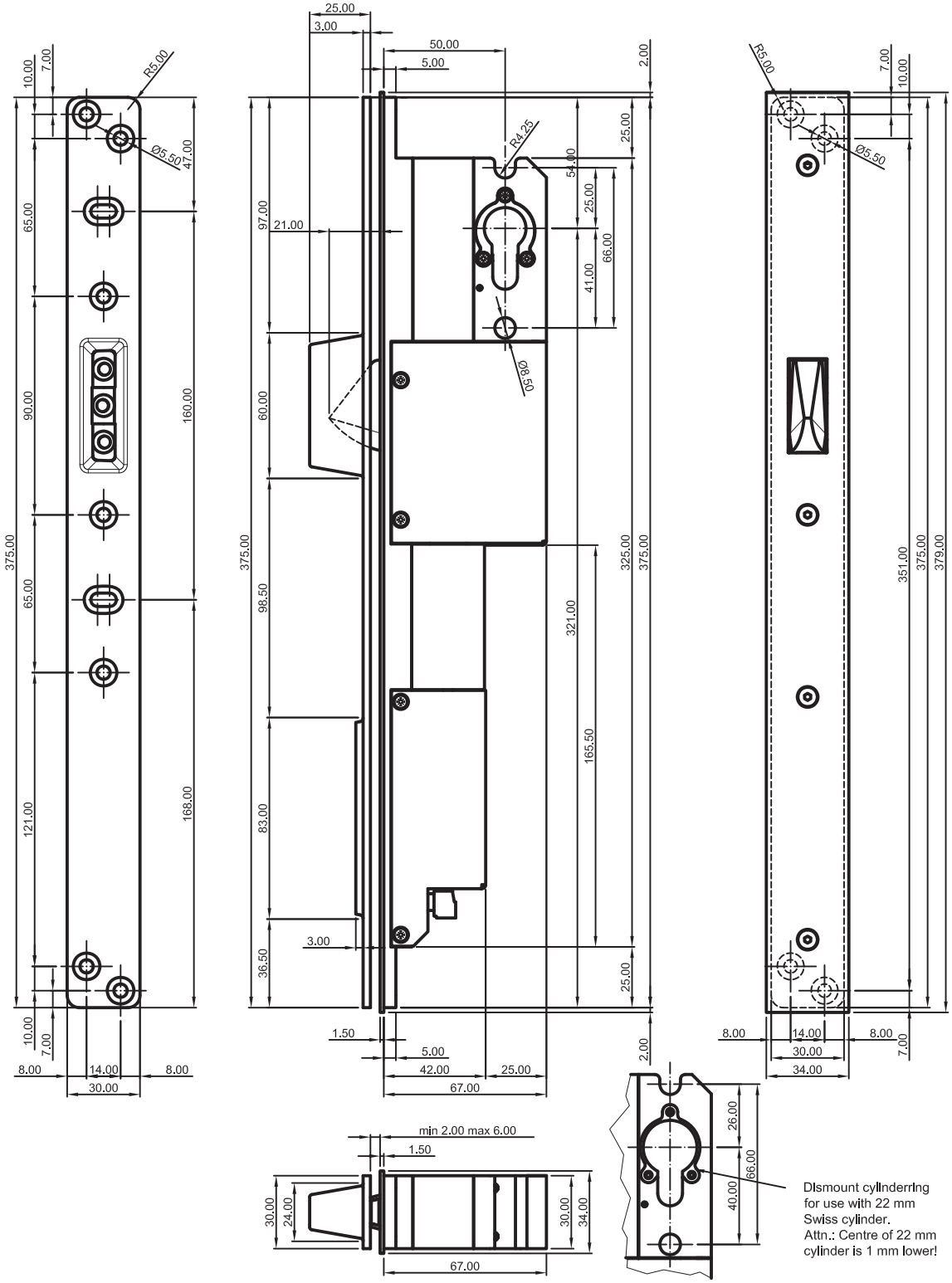
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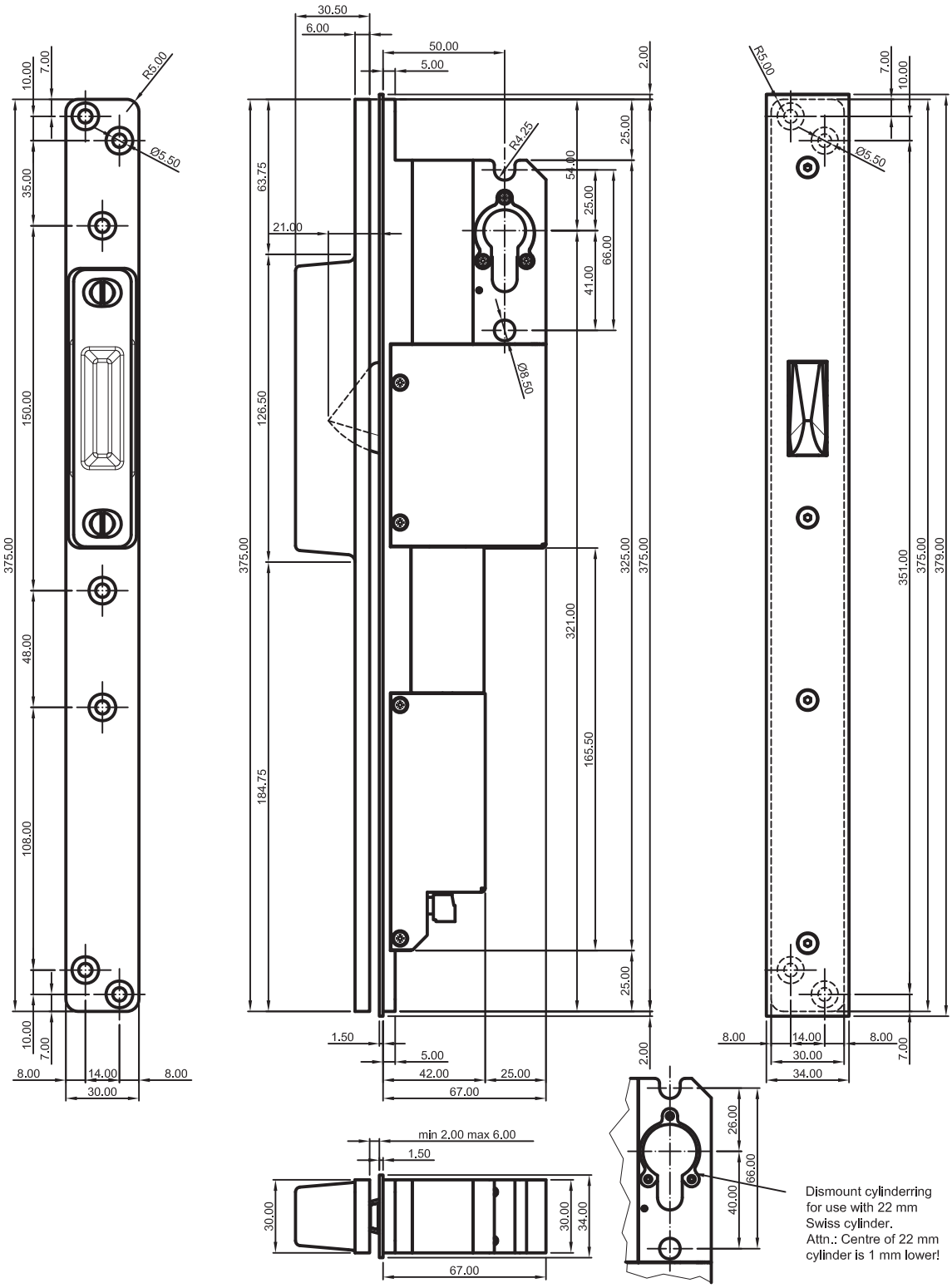
Dismount cylinderring
for use with 22 mm
Swiss cylinder.
Attn.: Centre of 22 mm
cylinder is 1 mm lower!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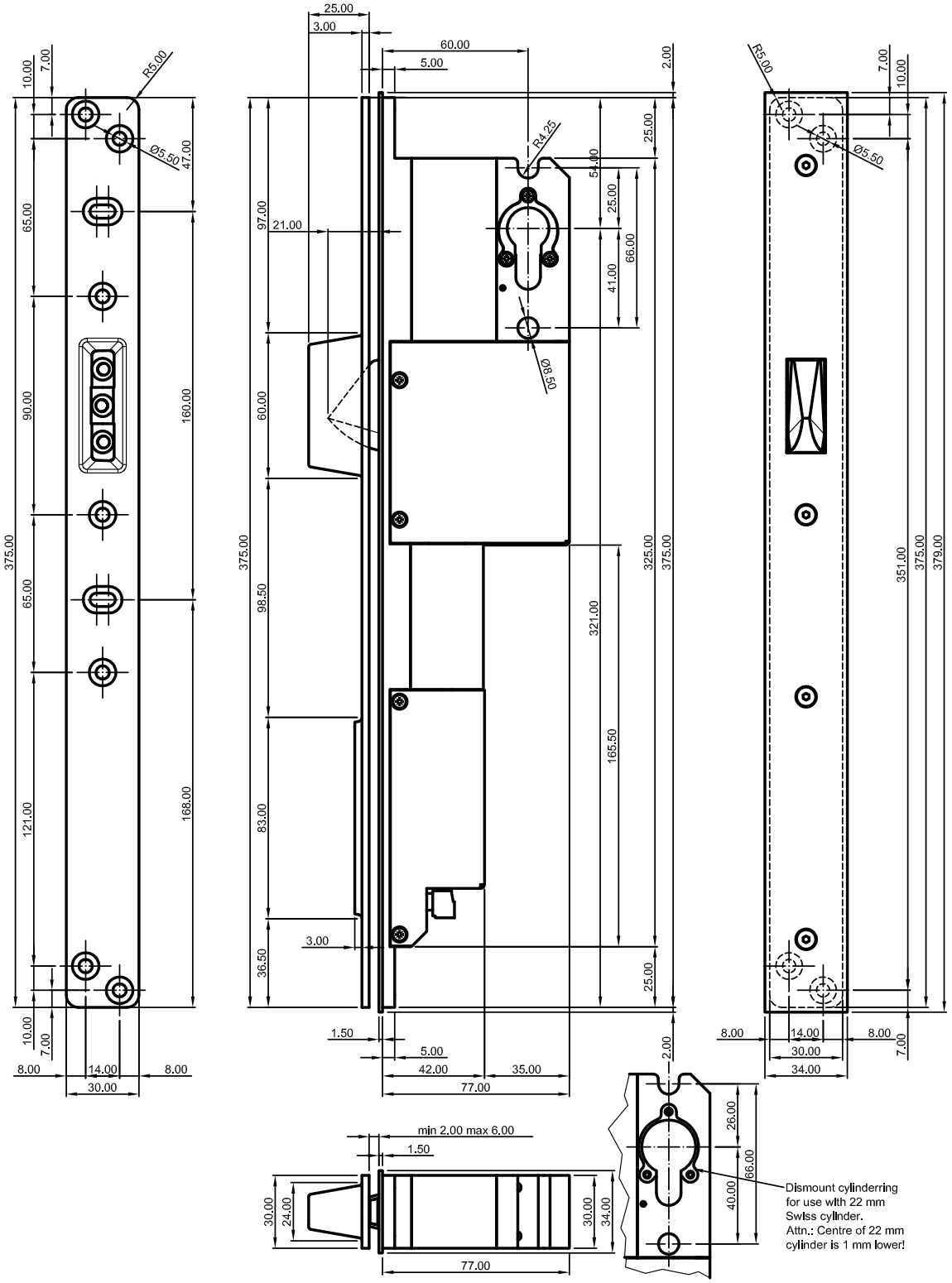
Dismount cylinderring
for use with 22 mm
Swiss cylinder.
Attn.: Centre of 22 mm
cylinder is 1 mm lower!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Dismount cylinderring
for use with 22 mm
Swiss cylinder.
Attn.: Centre of 22 mm
cylinder is 1 mm lower!
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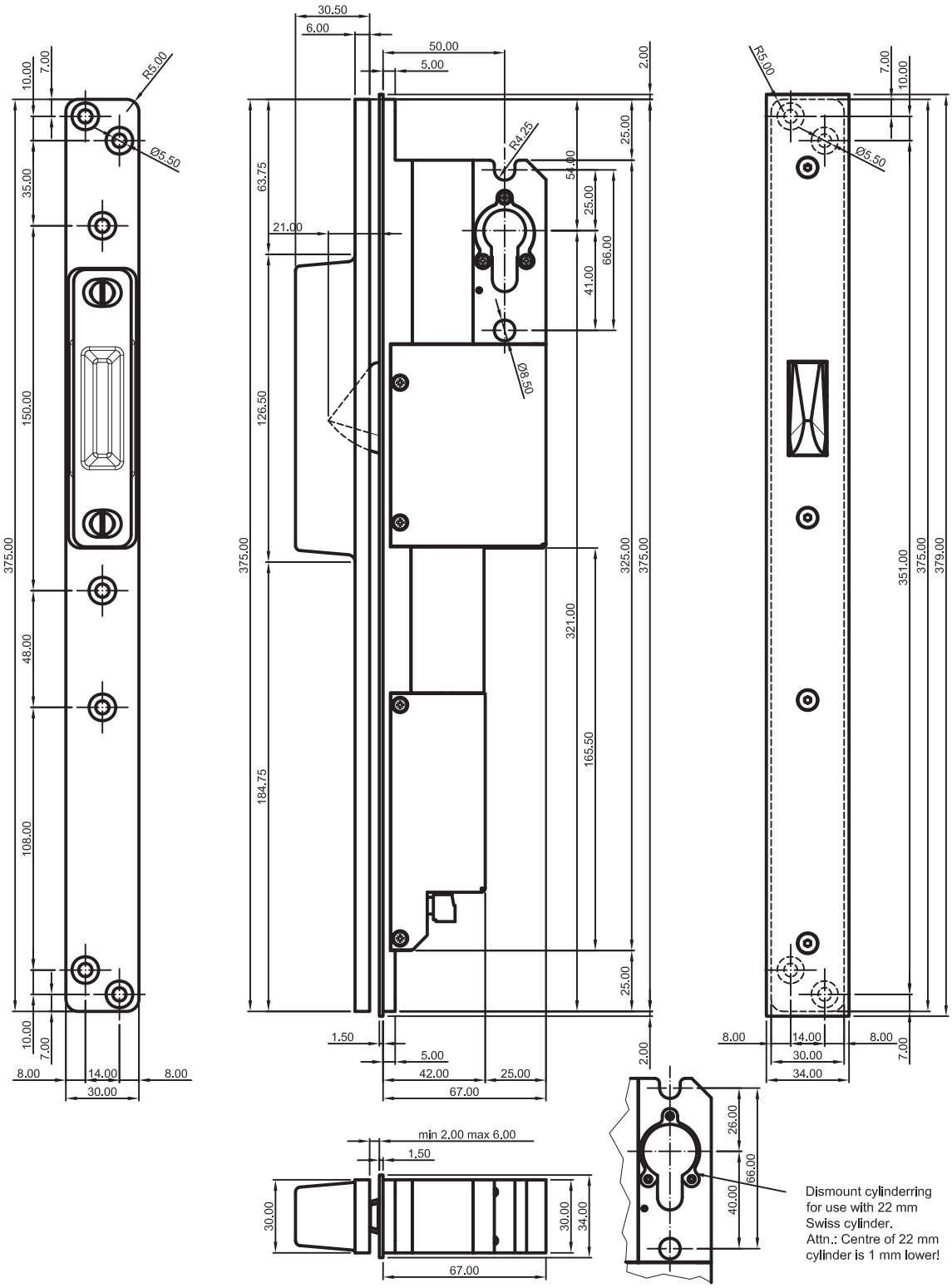
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Dismount cylinderring
for use with 22 mm
Swiss cylinder.
Attn.: Centre of 22 mm
cylinder is 1 mm lower!
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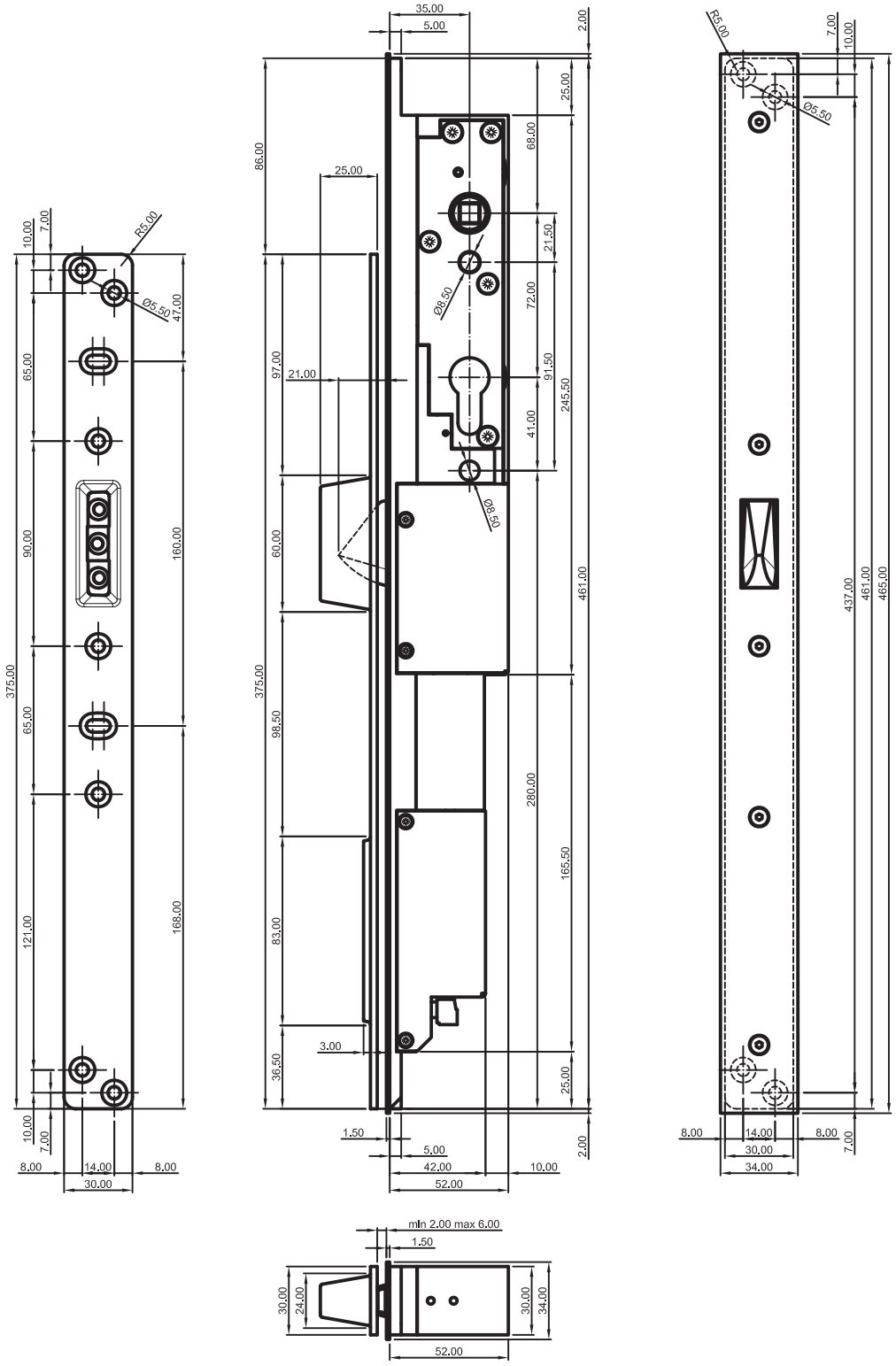
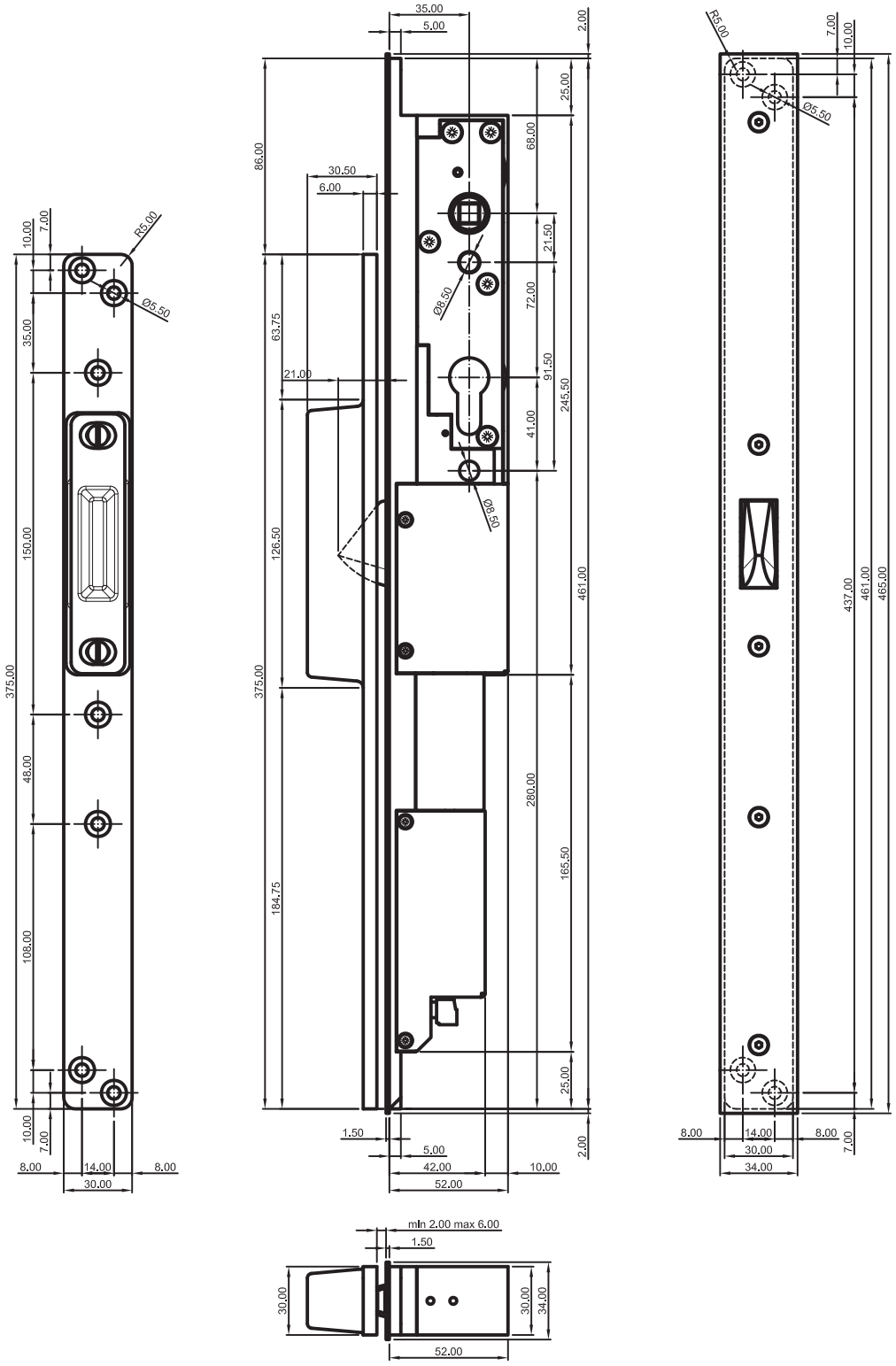
A1 3517 + SSP with handle

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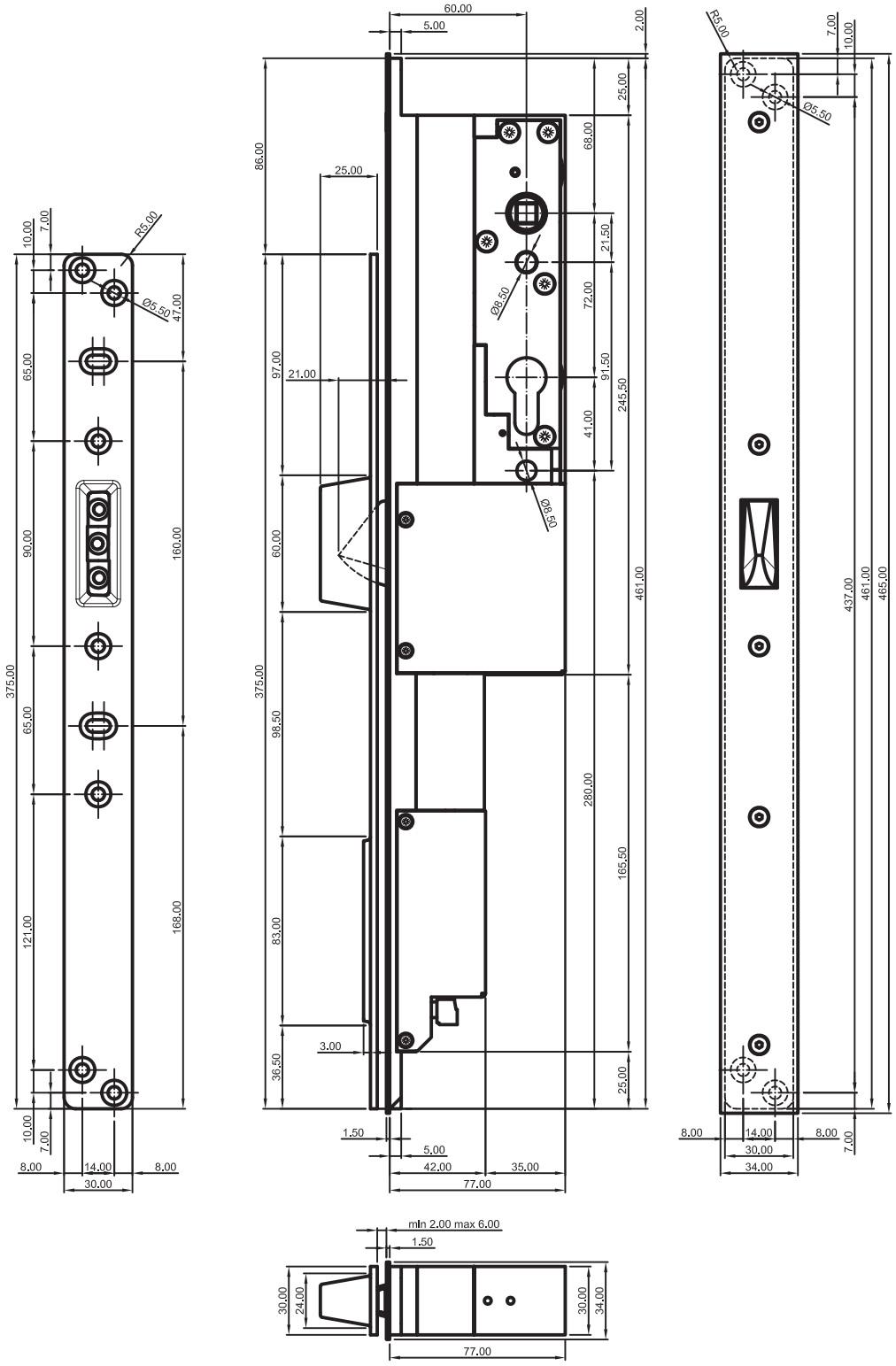
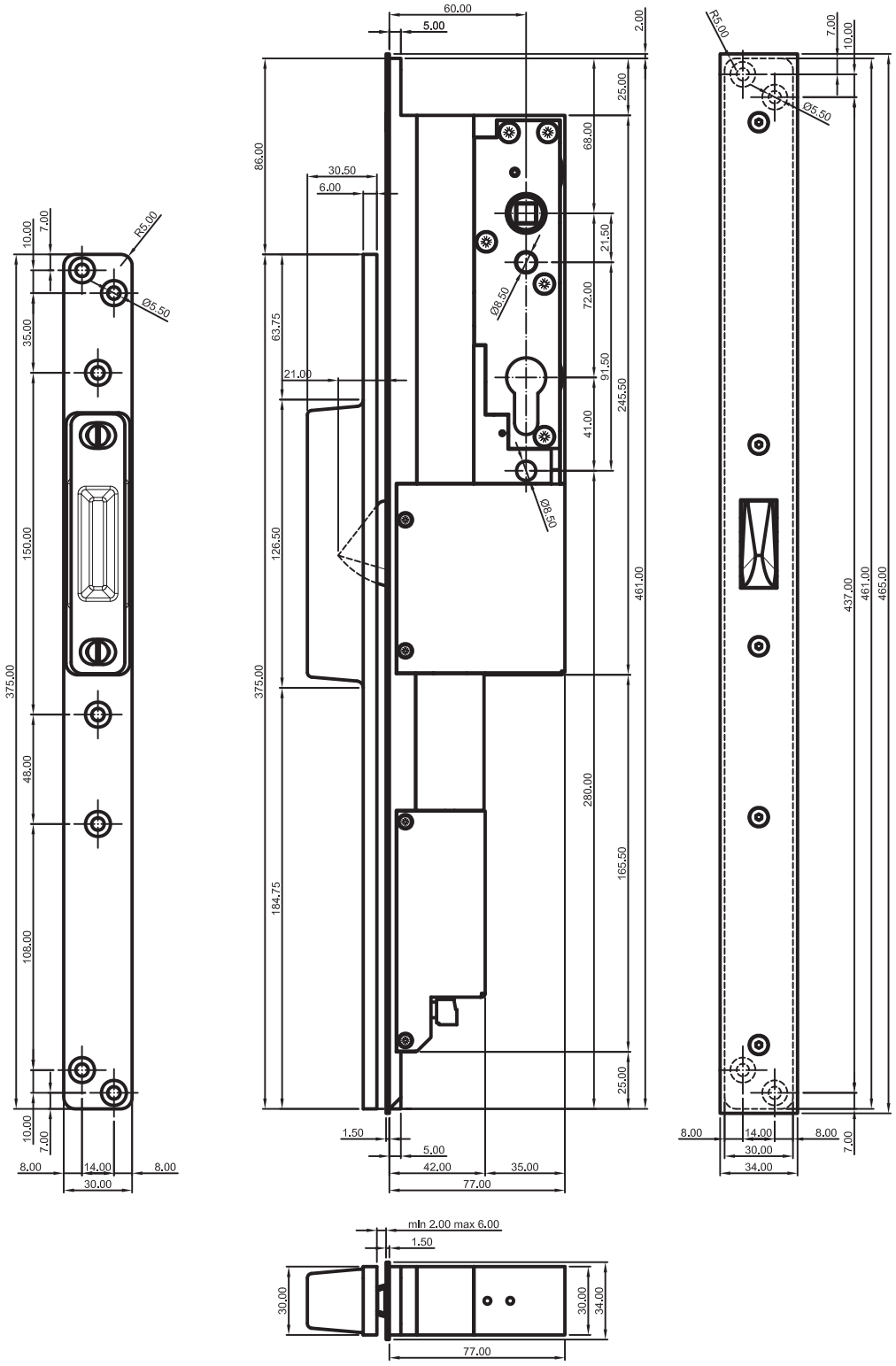
A1 6017 + SSP with handle

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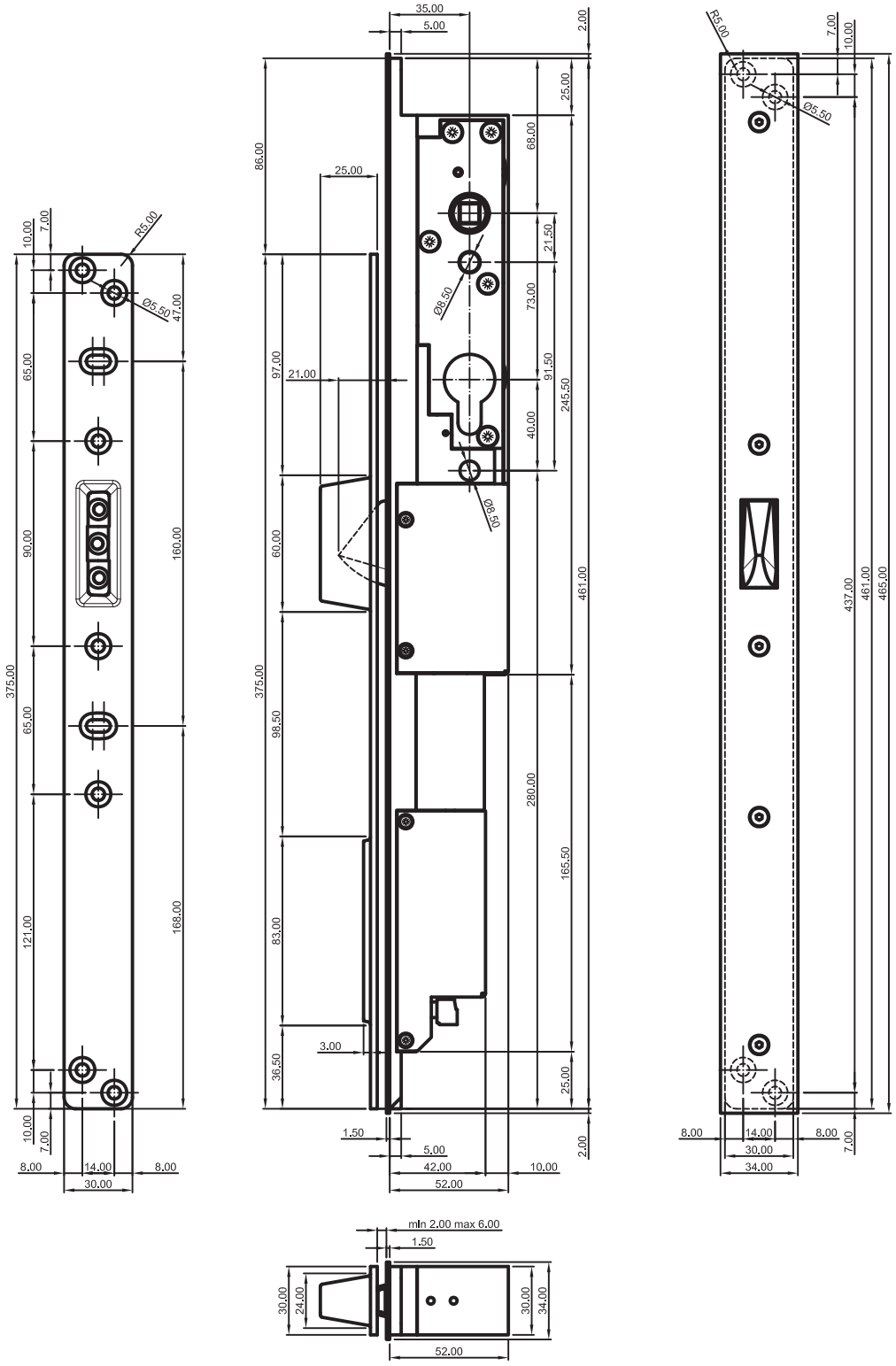
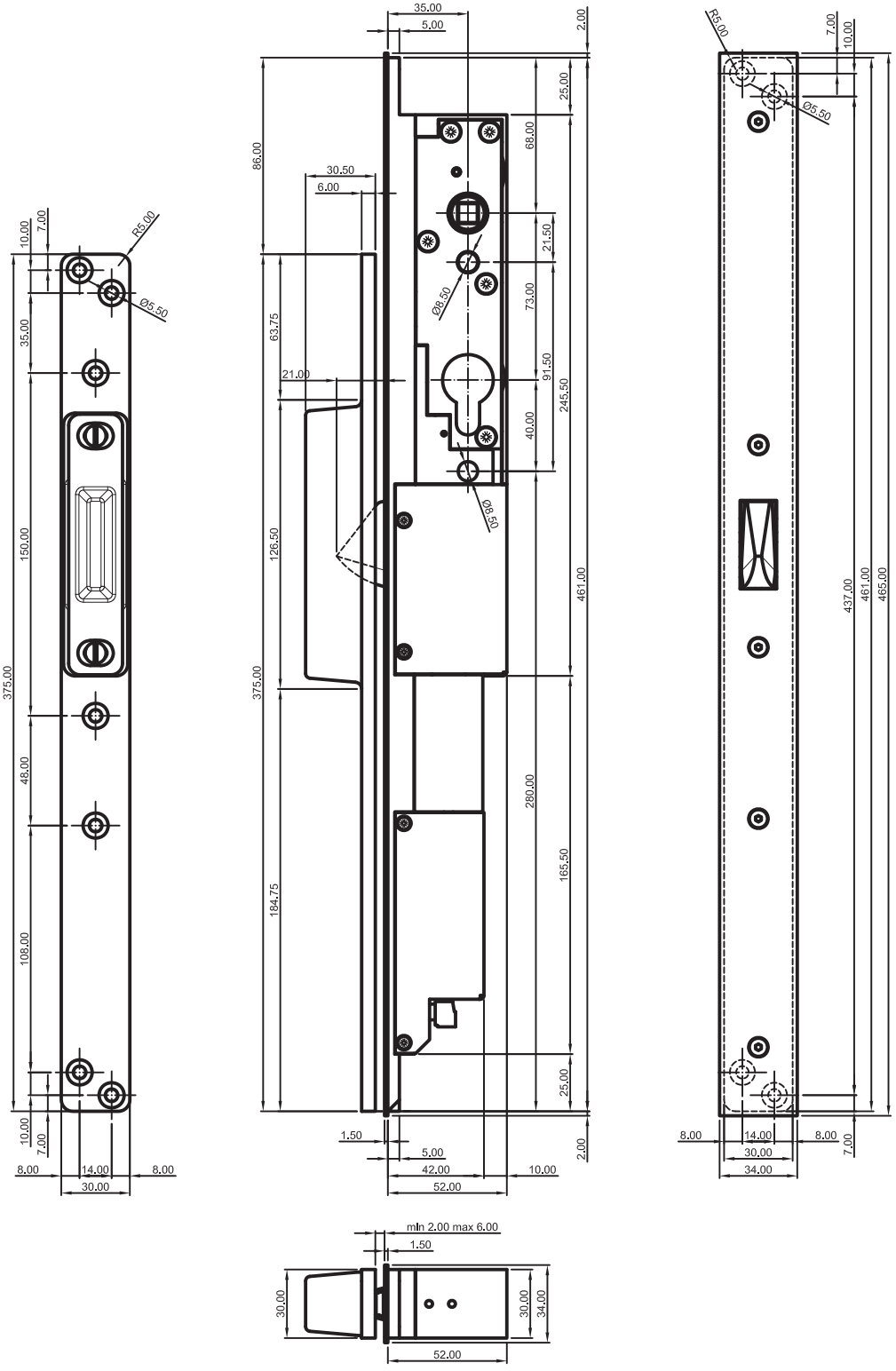
A1 3522 + SSP with handle

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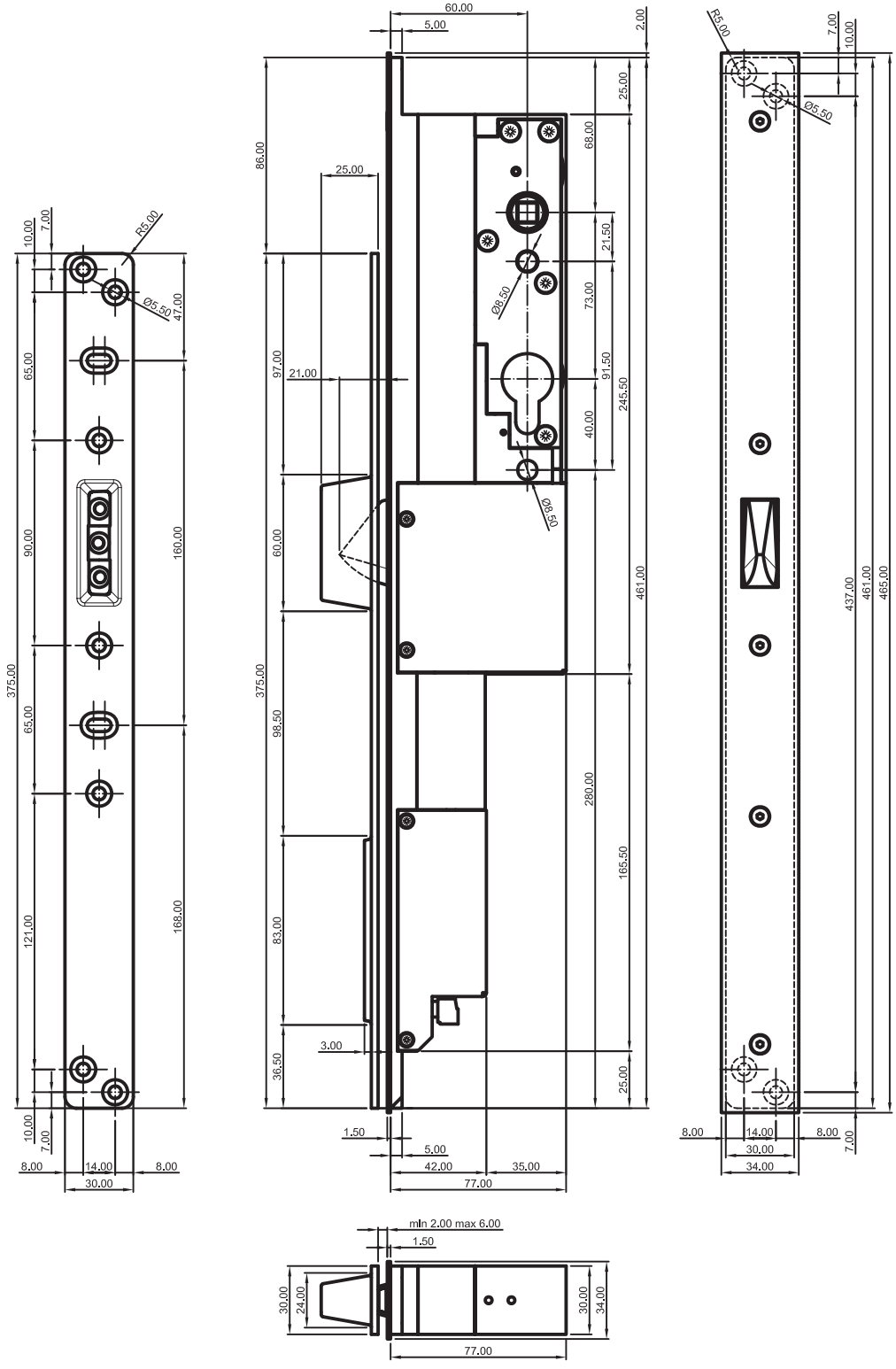
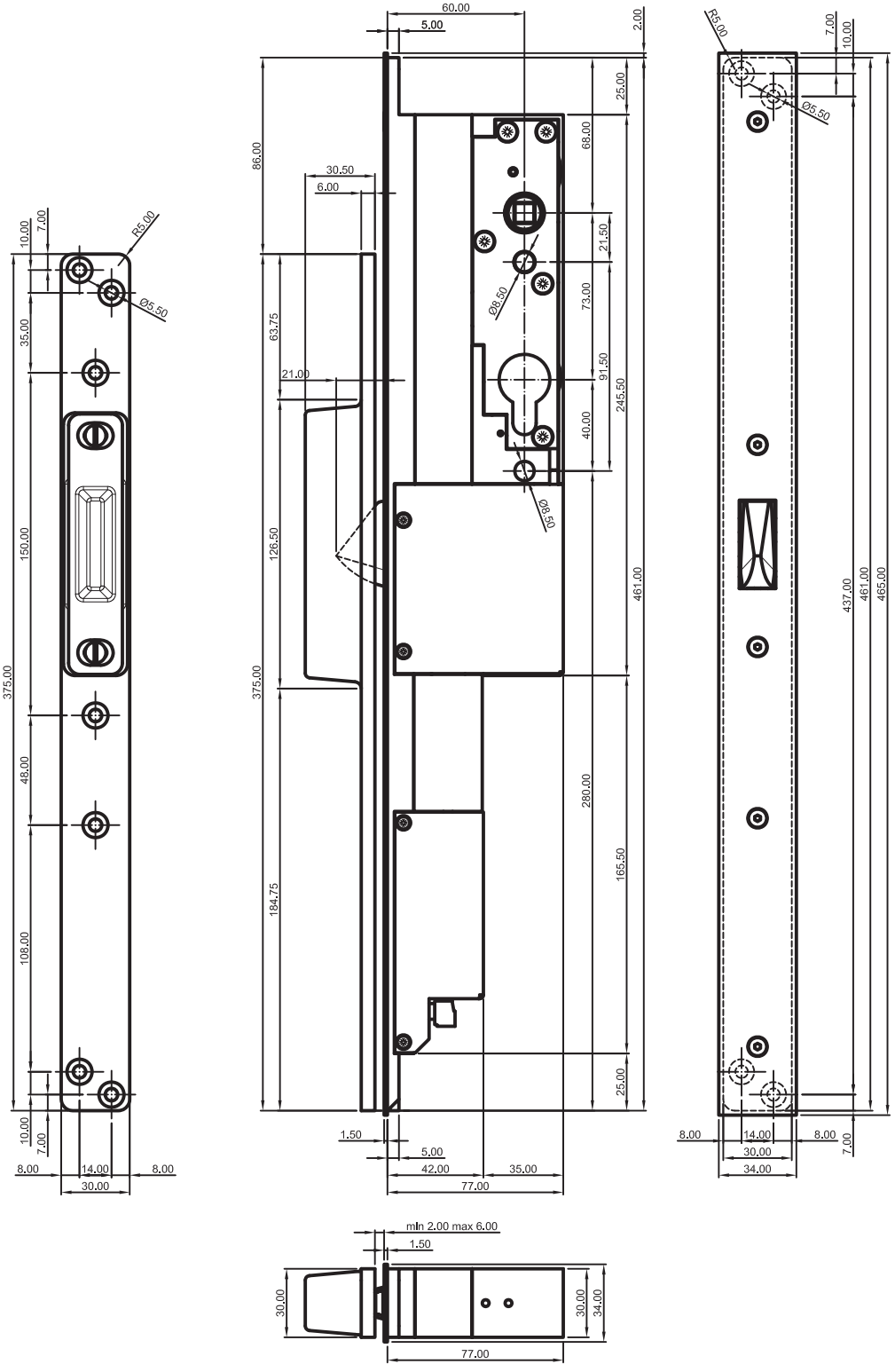
A1 6022 + SSP with handle

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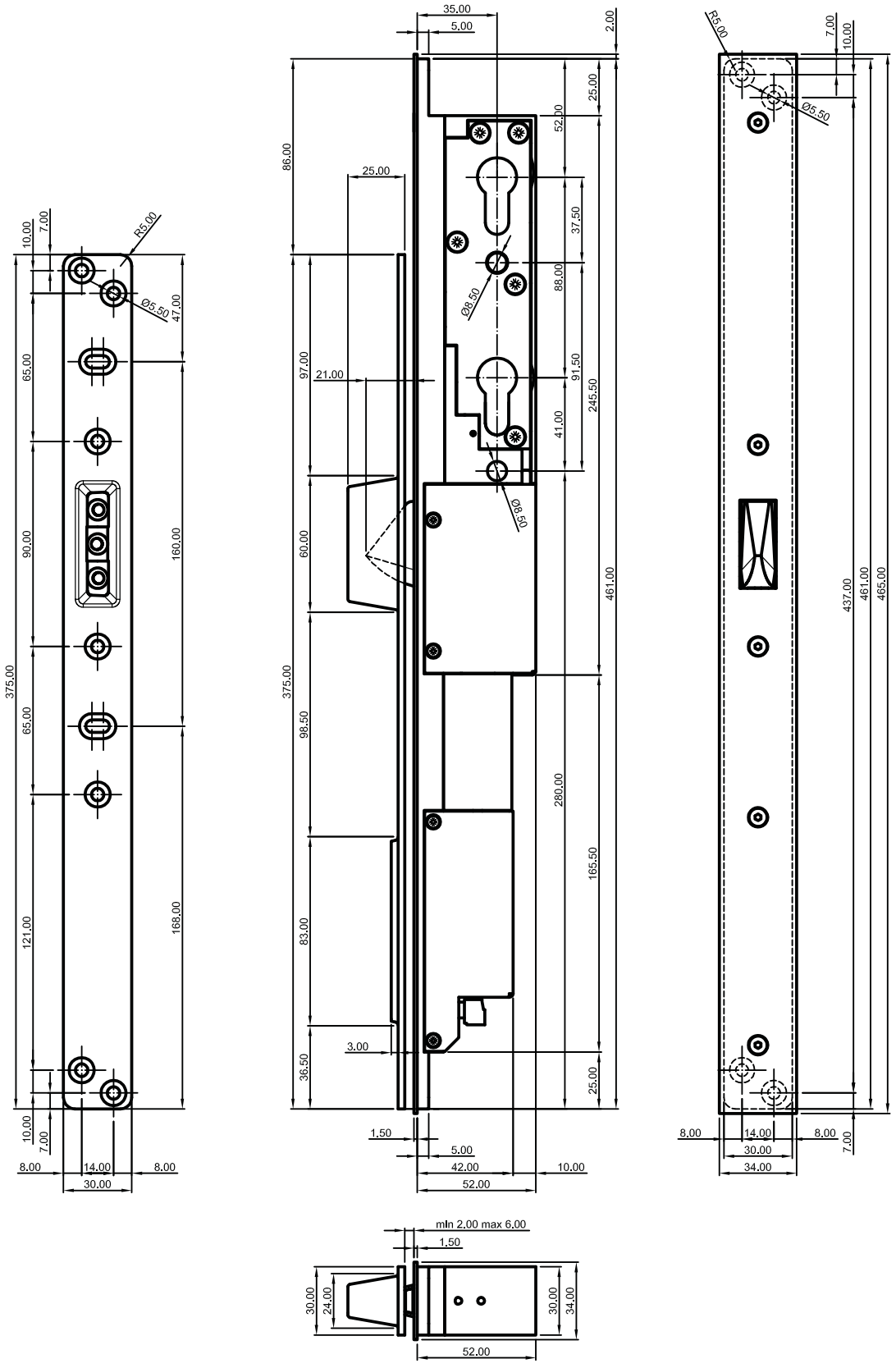
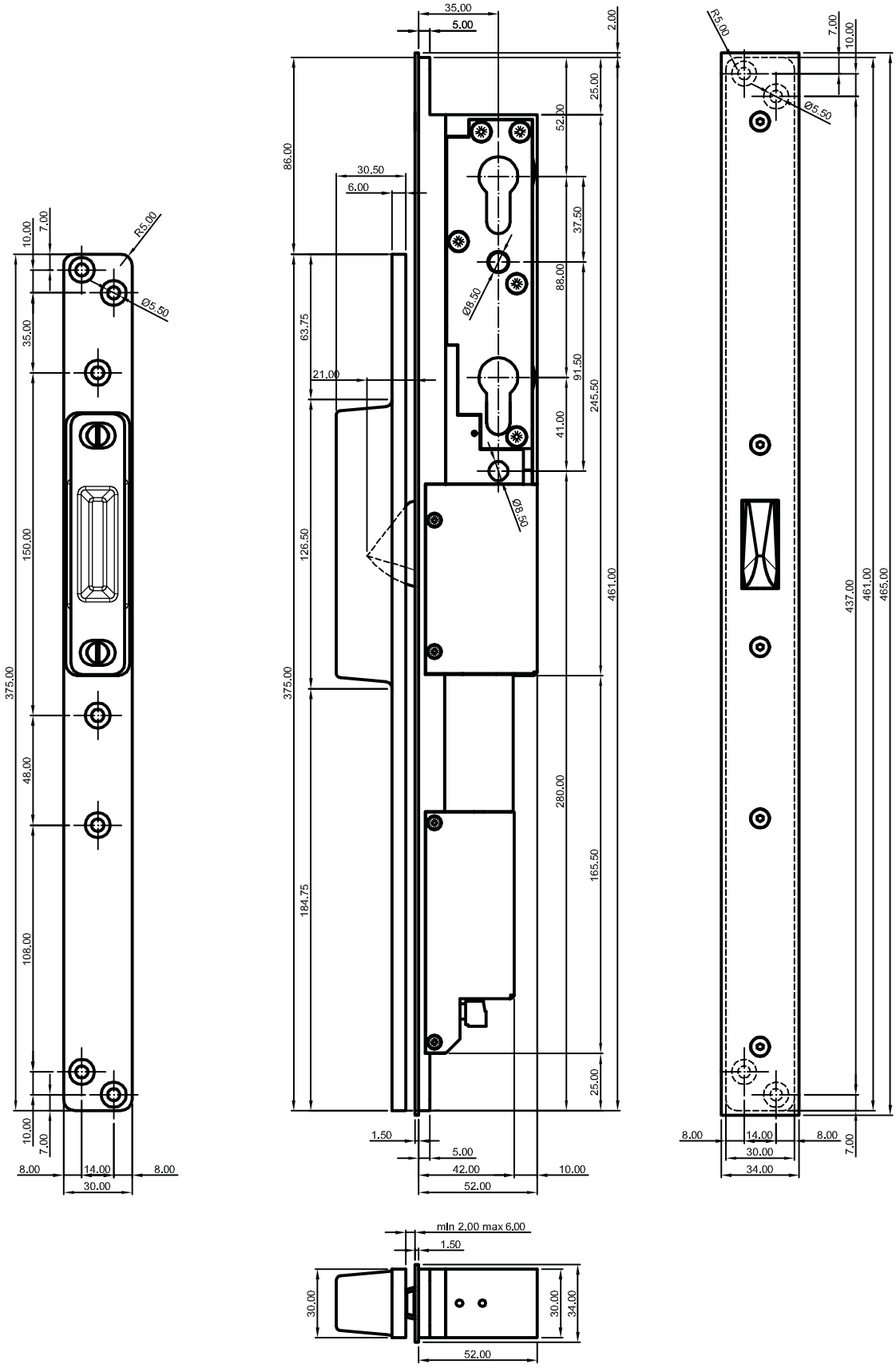
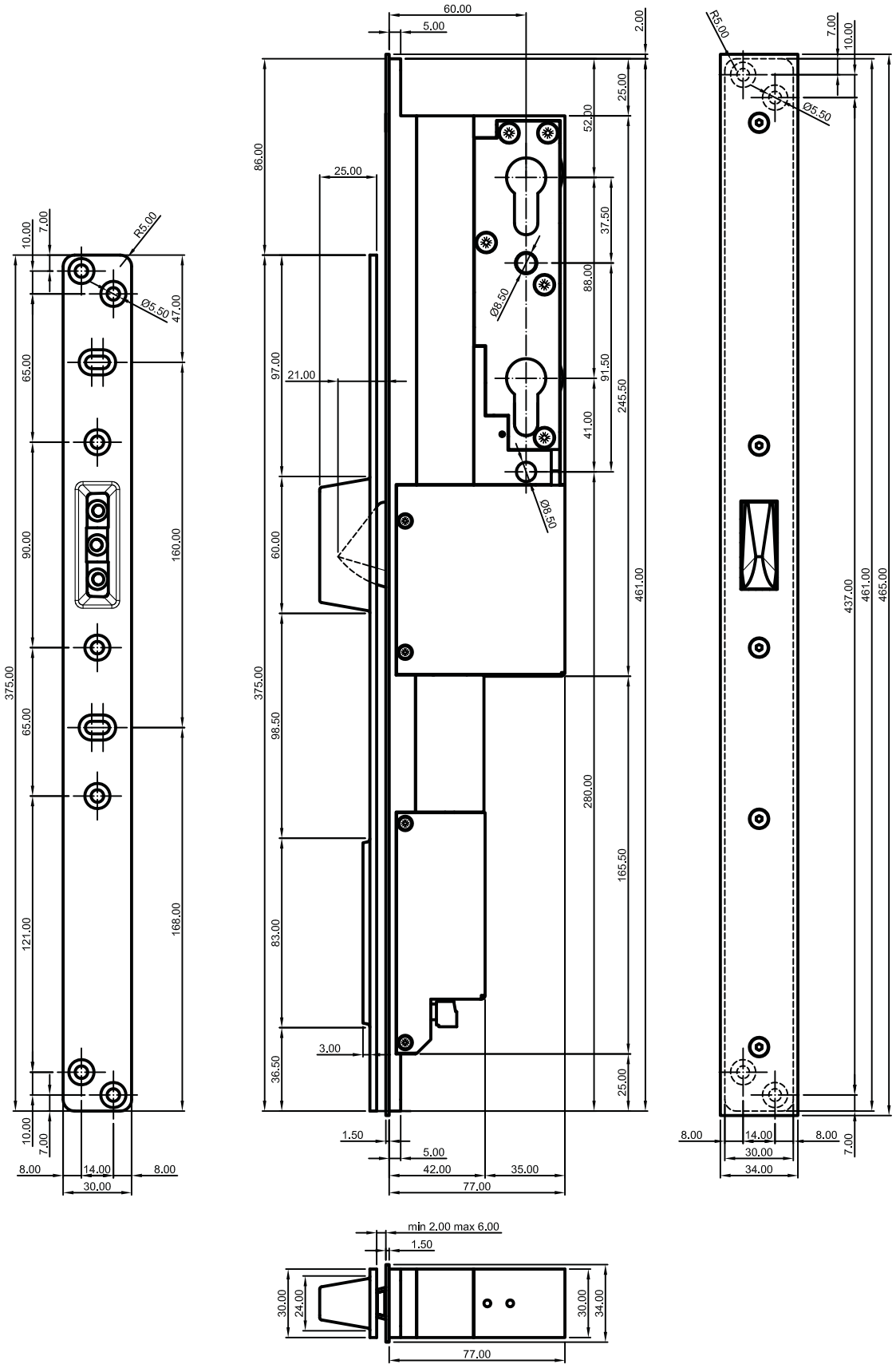
A1 3517 + SSP with 2 cylinders

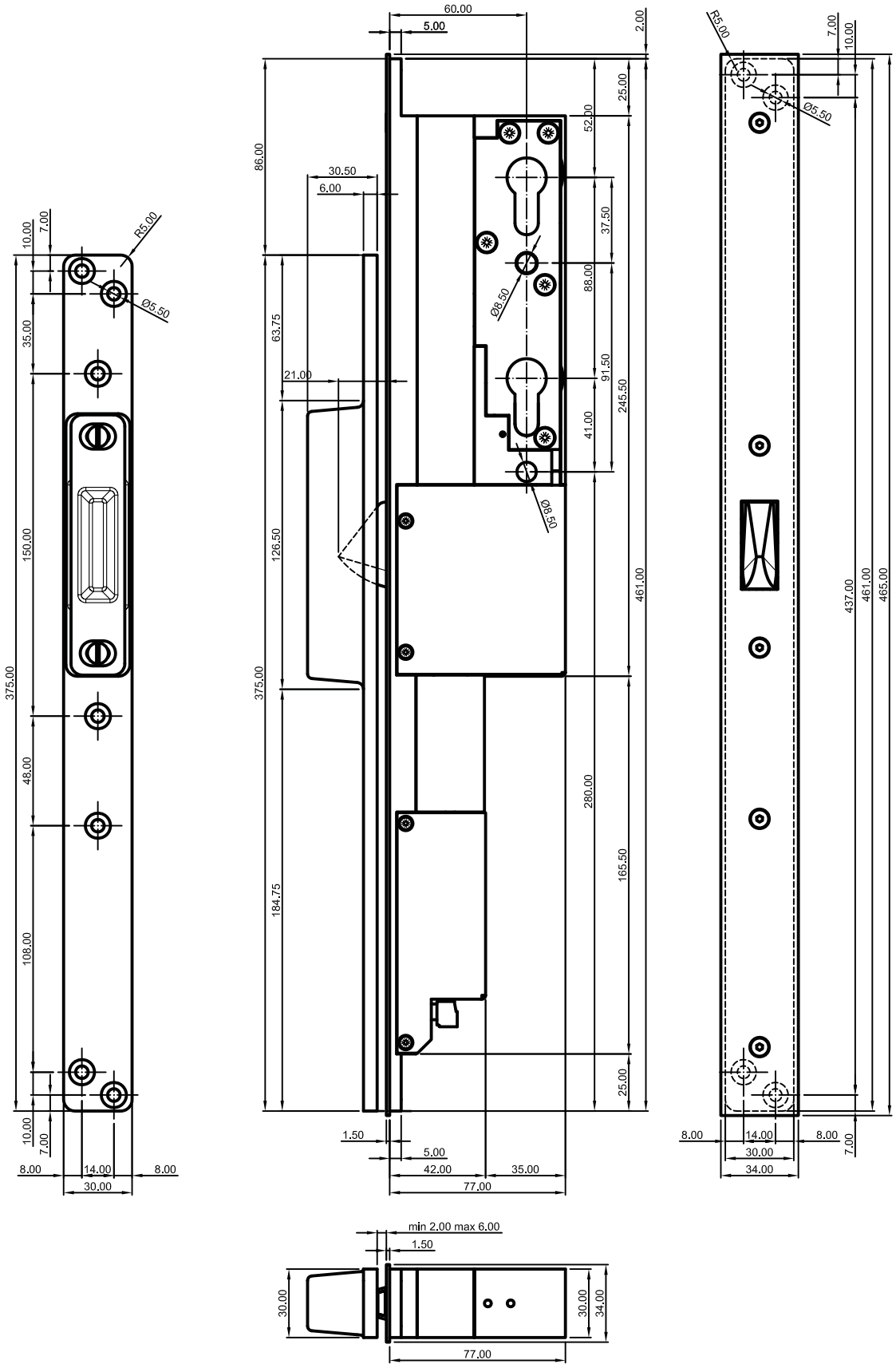




A1 3517 + ASP with 2 cylinders

A1 6017 + SSP with 2 cylinders

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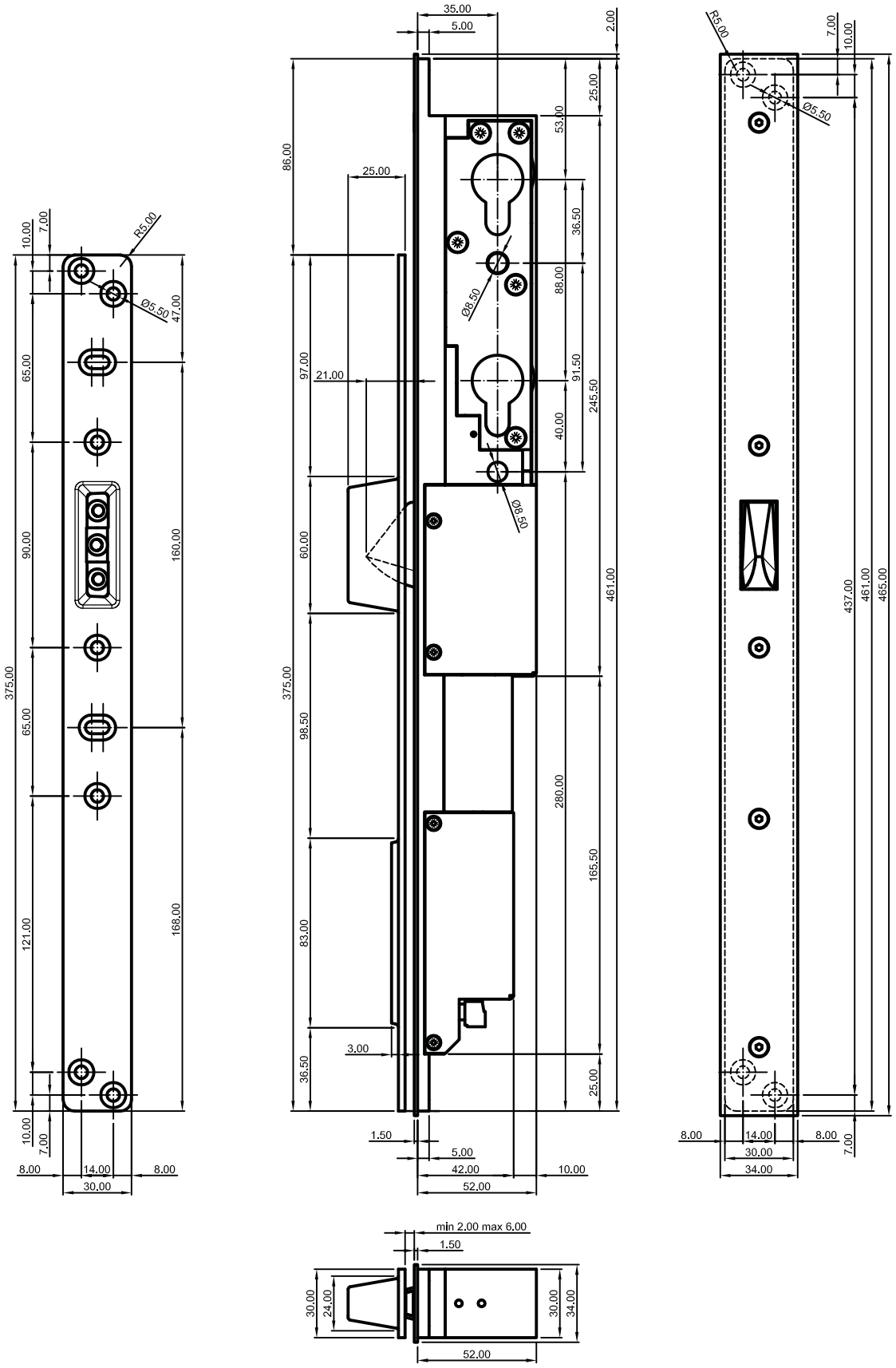
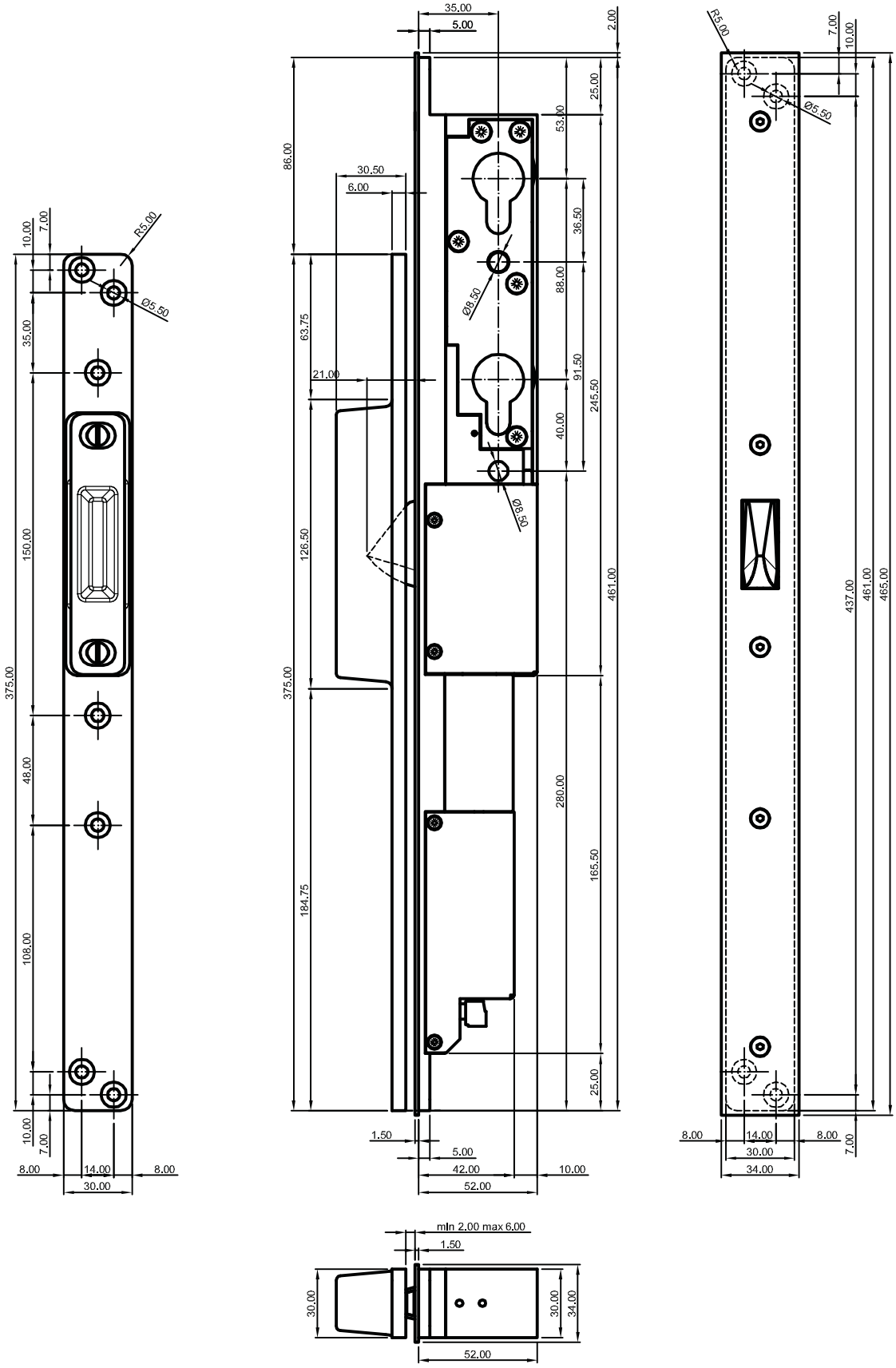
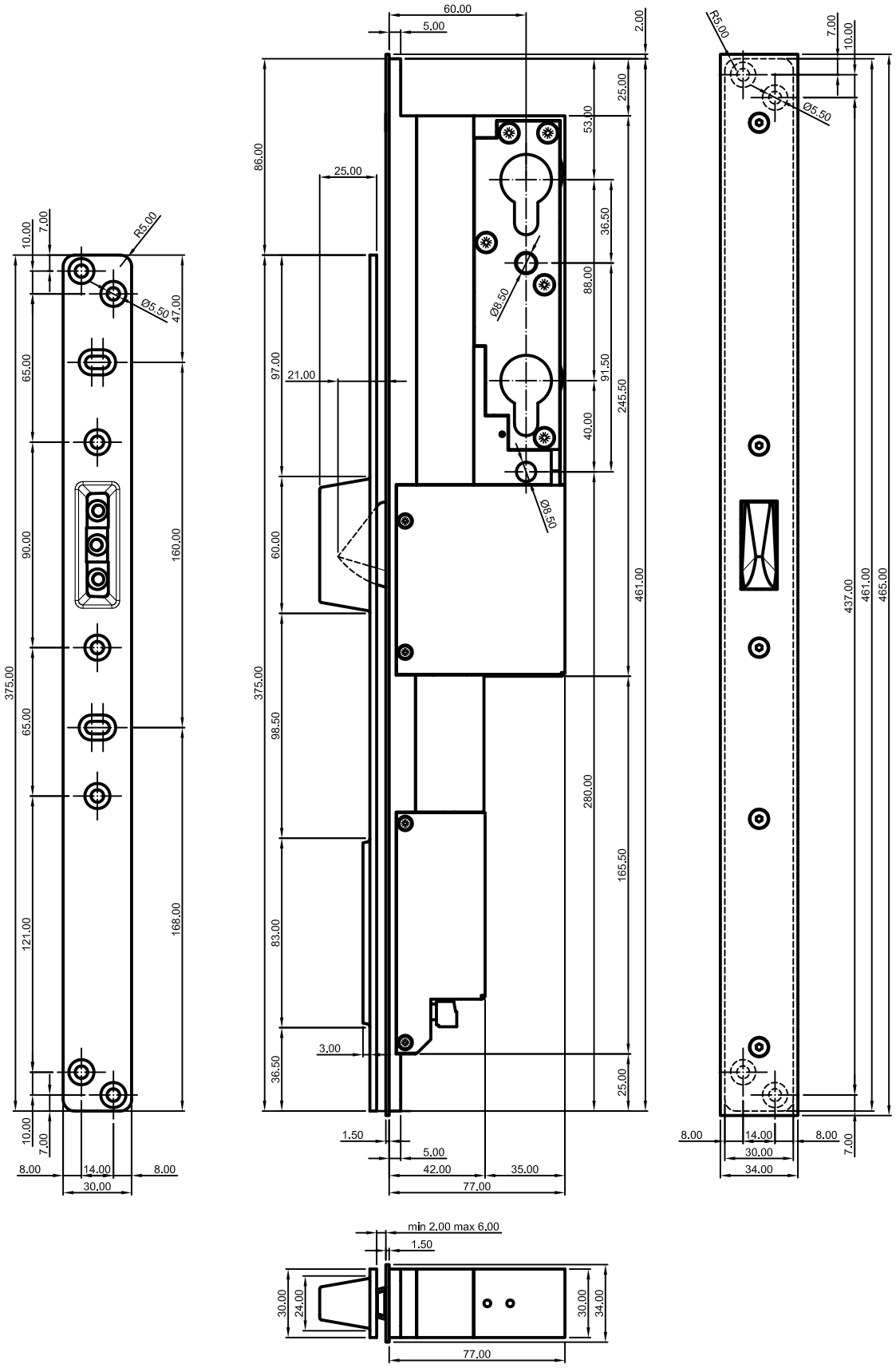
A1 3522 + SSP with 2 cylinders

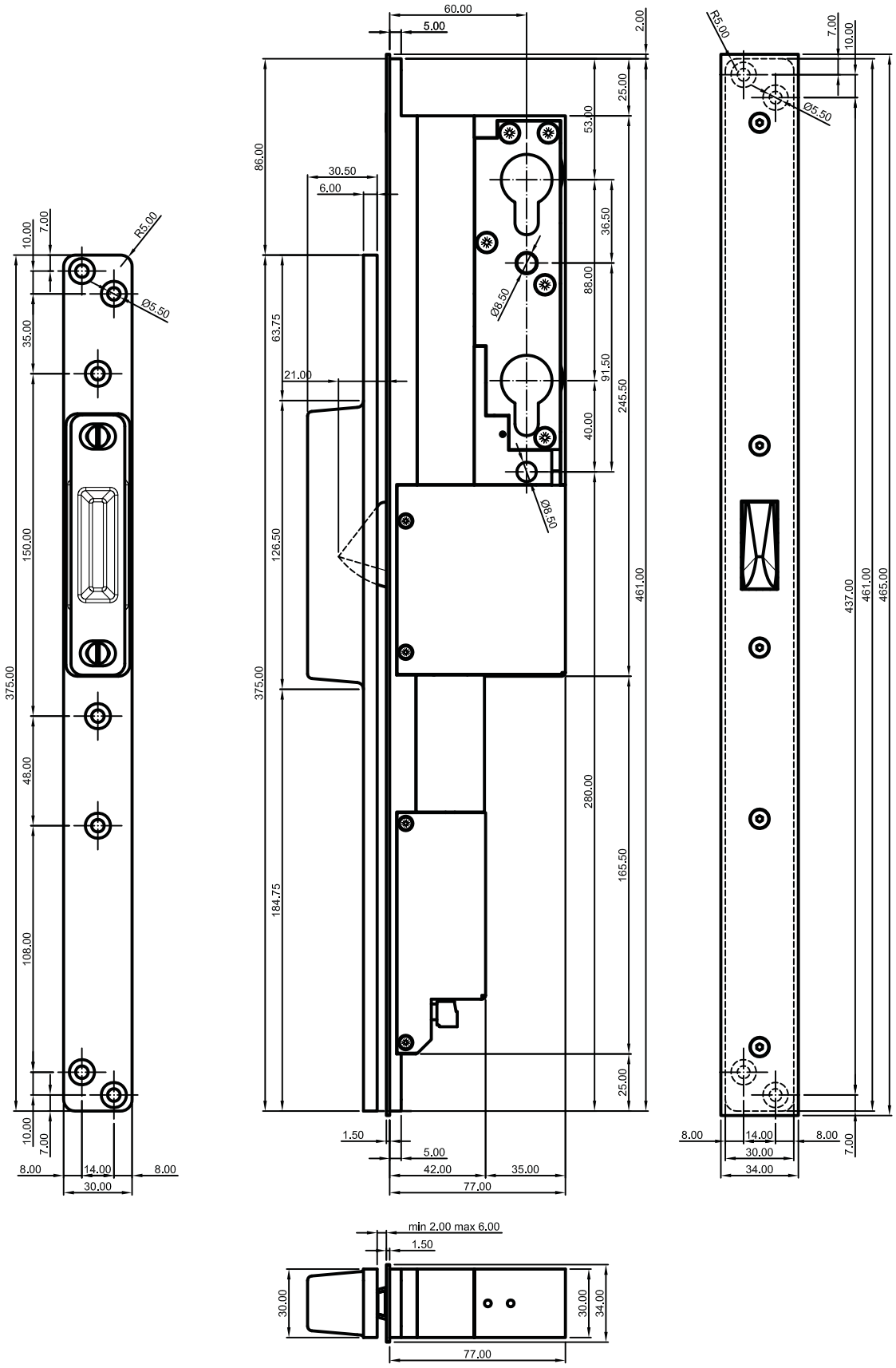


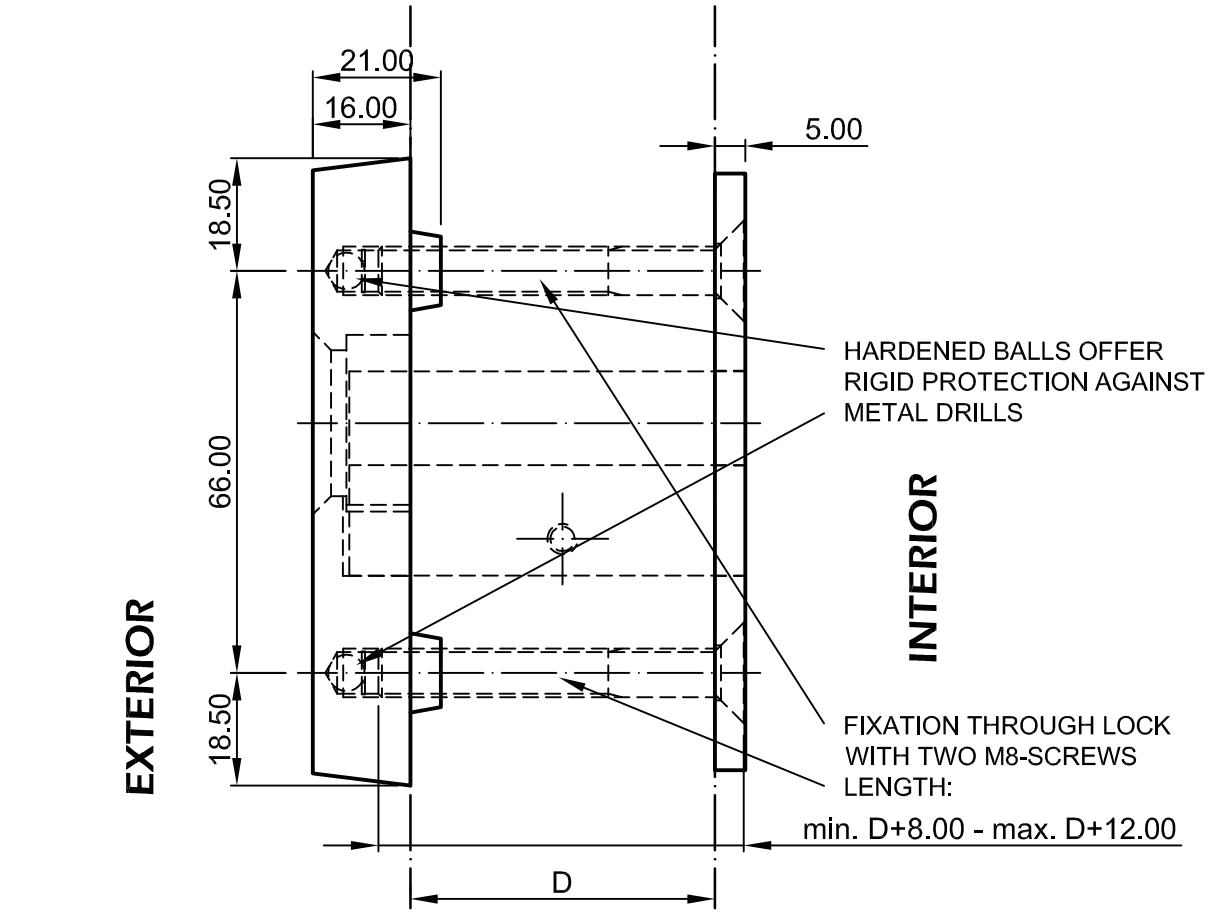


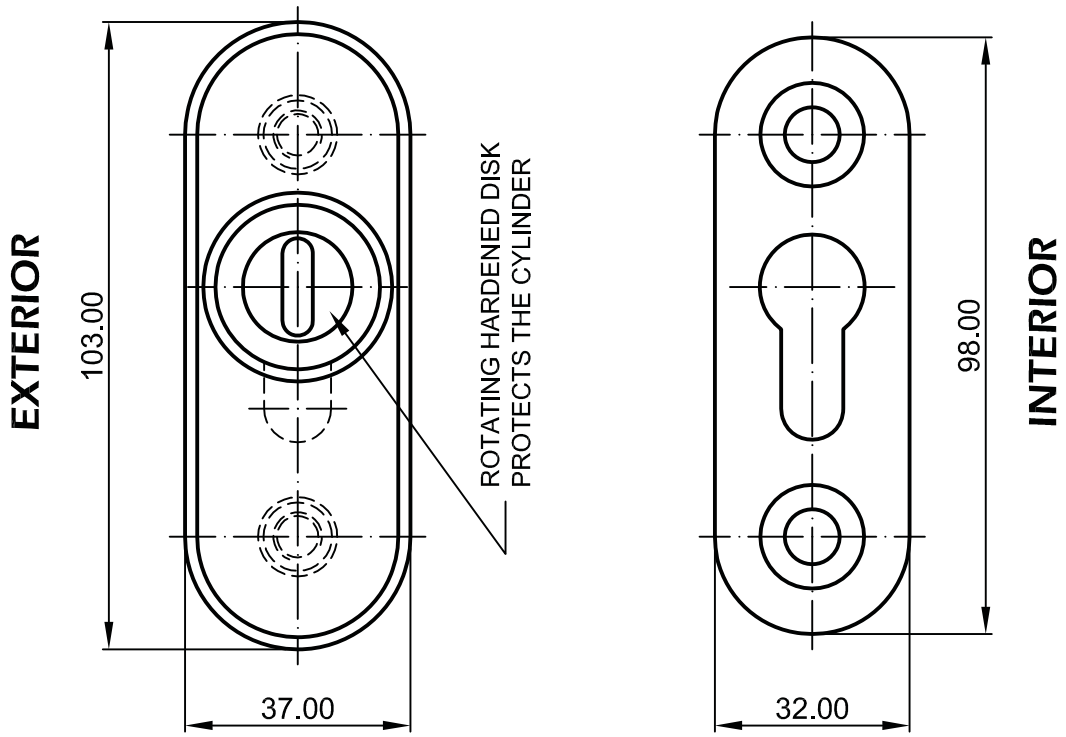
A1 3522 + ASP with 2 cylinders

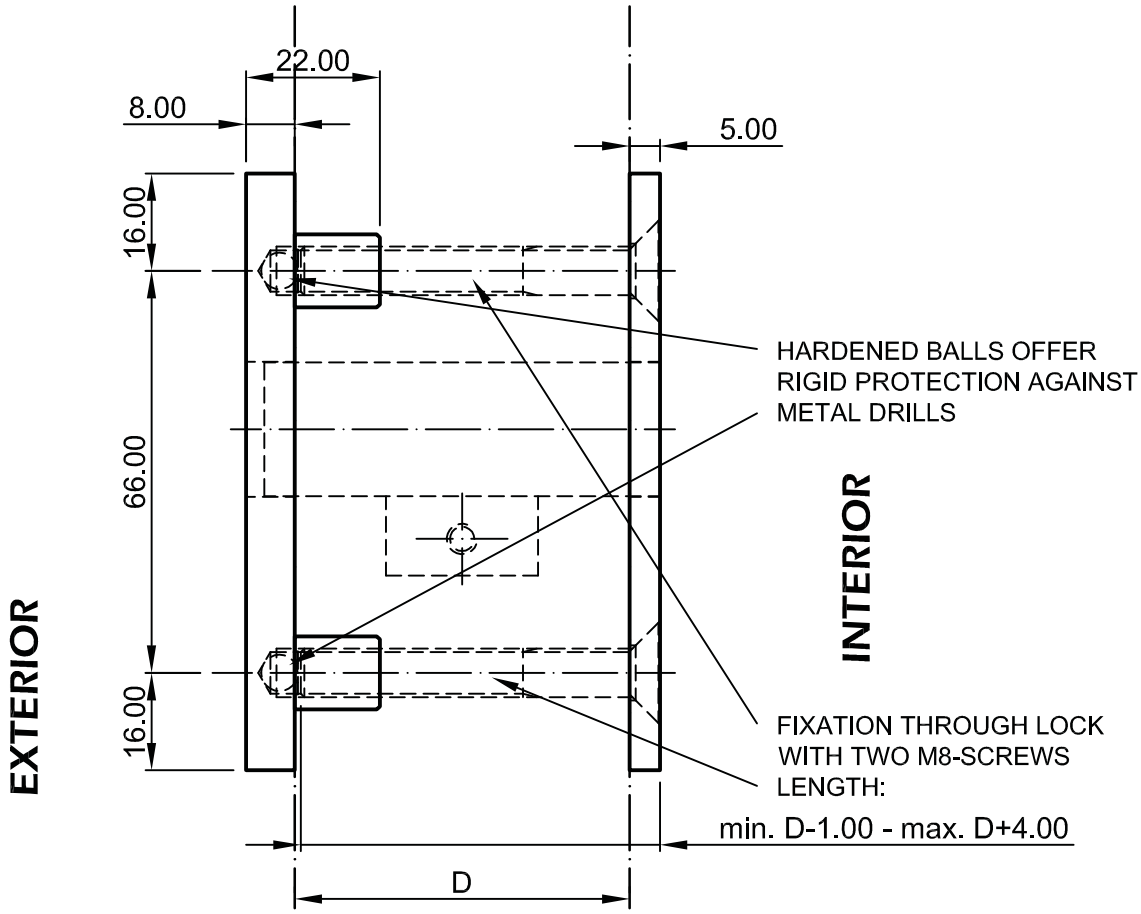
A1 6022 + SSP with 2 cylinders

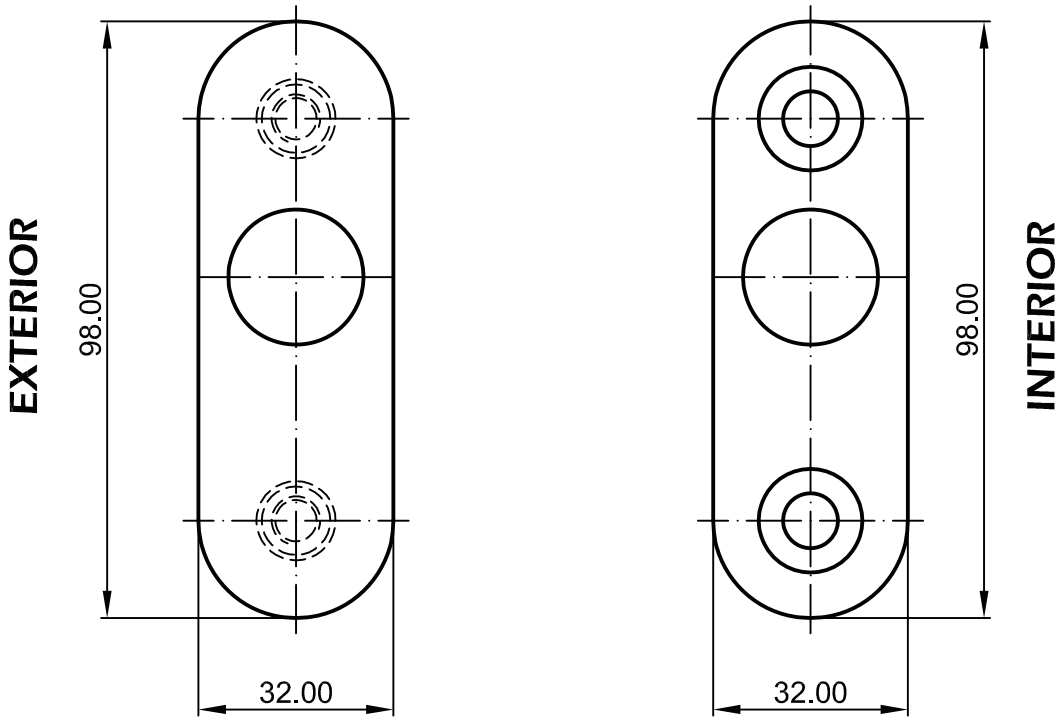



60.00
5.00
2.00
R5.00
7.00
10.00
Ø5.50
25.00
53.00
86.00
30.50
6.00
36.50
88.00
Ø8.50
63.75
21.00
91.50
245.50
40.00
Ø8.50
126.50
461.00
375.00
280.00
165.50
184.75
25.00
10.00
7.00
35.00
150.00
48.00
108.00
8.00
14.00
8.00
30.00
1.50
5.00
42.00
35.00
77.00
437.00
461.00
465.00
30.00
14.00
8.00
34.00
min 2.00 max 6.00
1.50
30.00
34.00
77.00

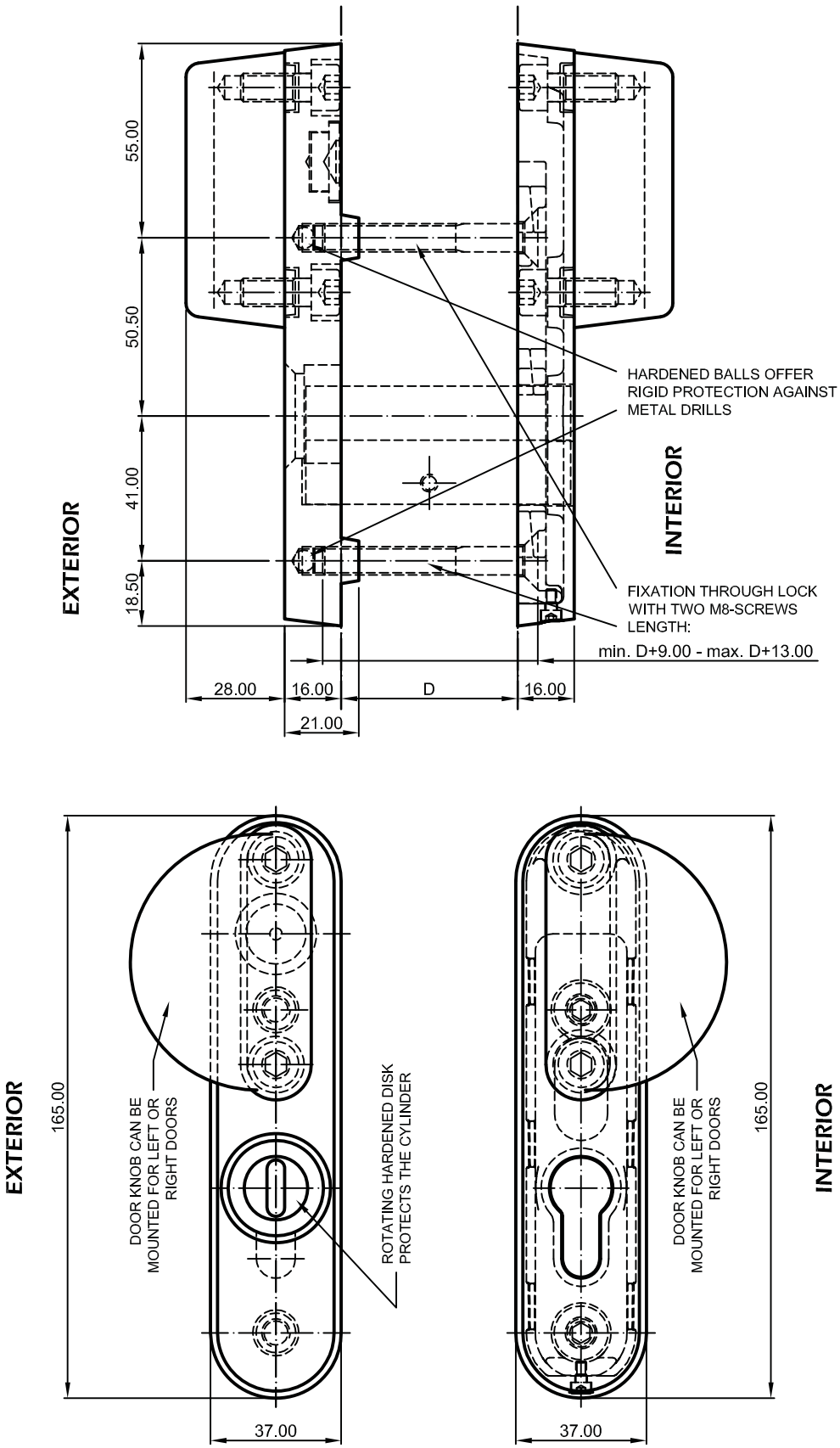

21.00
16.00
5.00
18.50
66.00
18.50
EXTERIOR
INTERIOR
HARDENED BALLS OFFER
RIGID PROTECTION AGAINST
METAL DRILLS
FIXATION THROUGH LOCK
WITH TWO M8-SCREWS
LENGTH:
min. D+8.00 - max. D+12.00
D

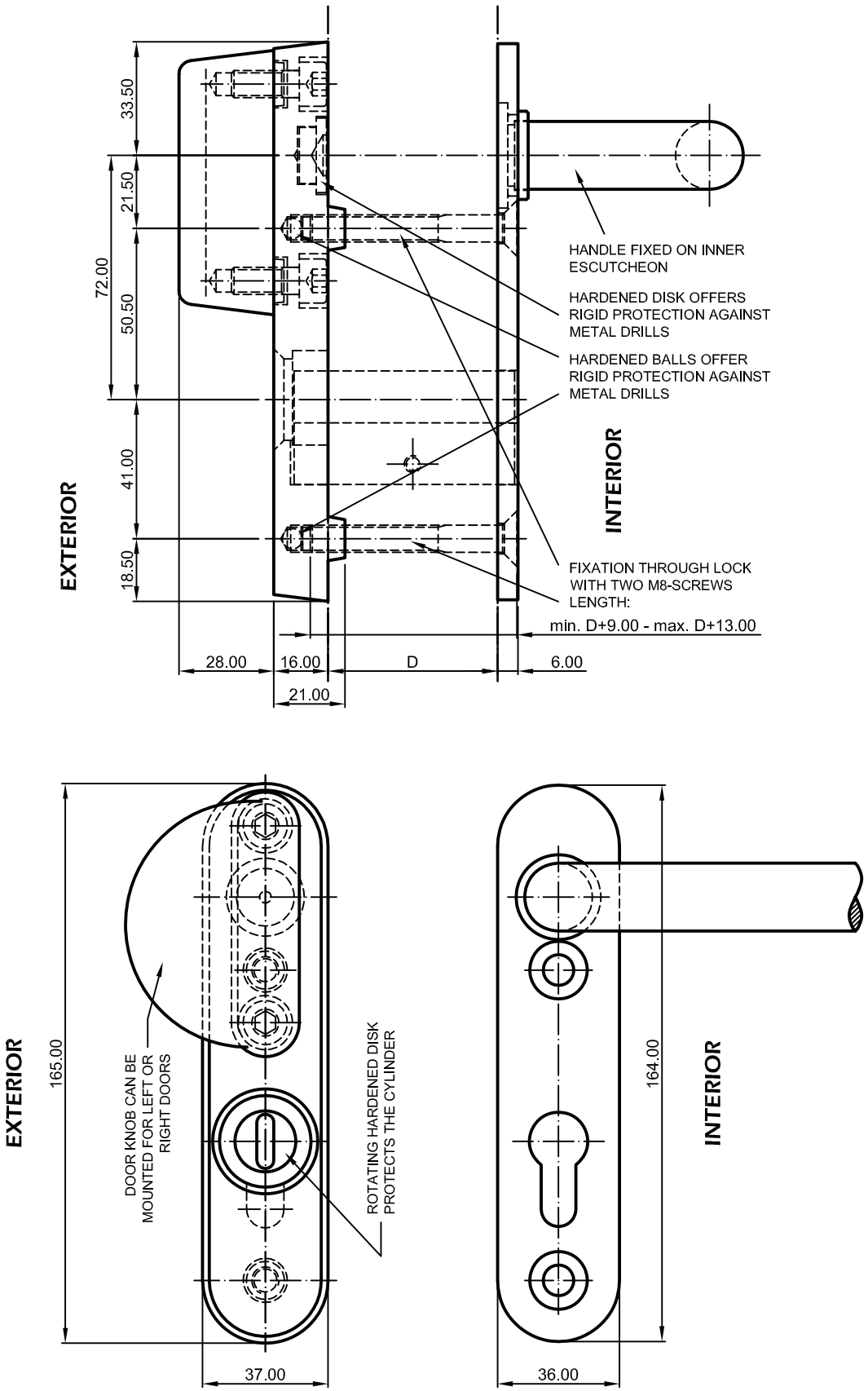

EXTERIOR
103.00
ROTATING HARDENED DISK
PROTECTS THE CYLINDER
37.00
98.00
INTERIOR
32.00

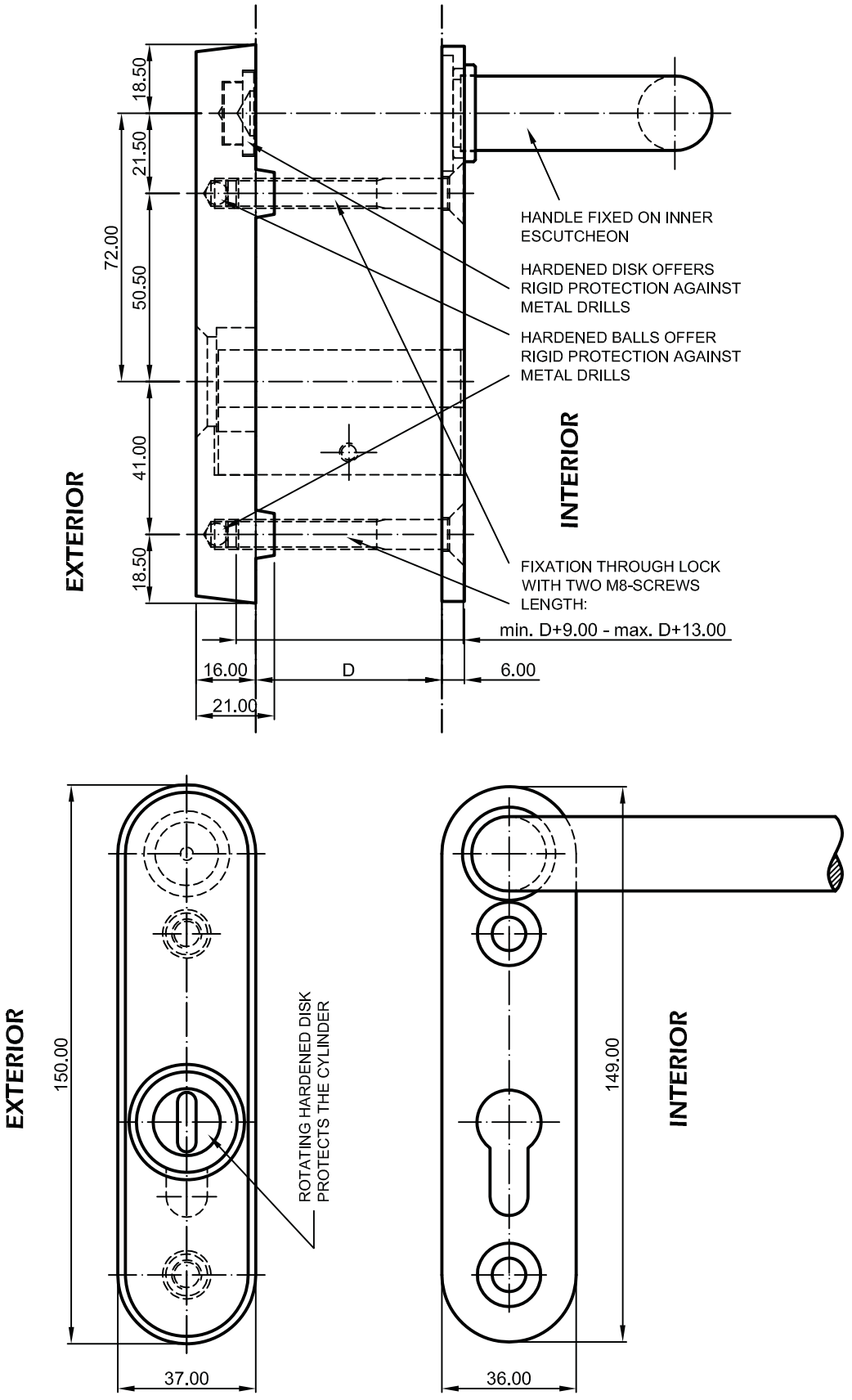

22.00
8.00
5.00
16.00
66.00
16.00
HARDENED BALLS OFFER
RIGID PROTECTION AGAINST
METAL DRILLS
EXTERIOR
INTERIOR
FIXATION THROUGH LOCK
WITH TWO M8-SCREWS
LENGTH:
min. D-1.00 - max. D+4.00
D

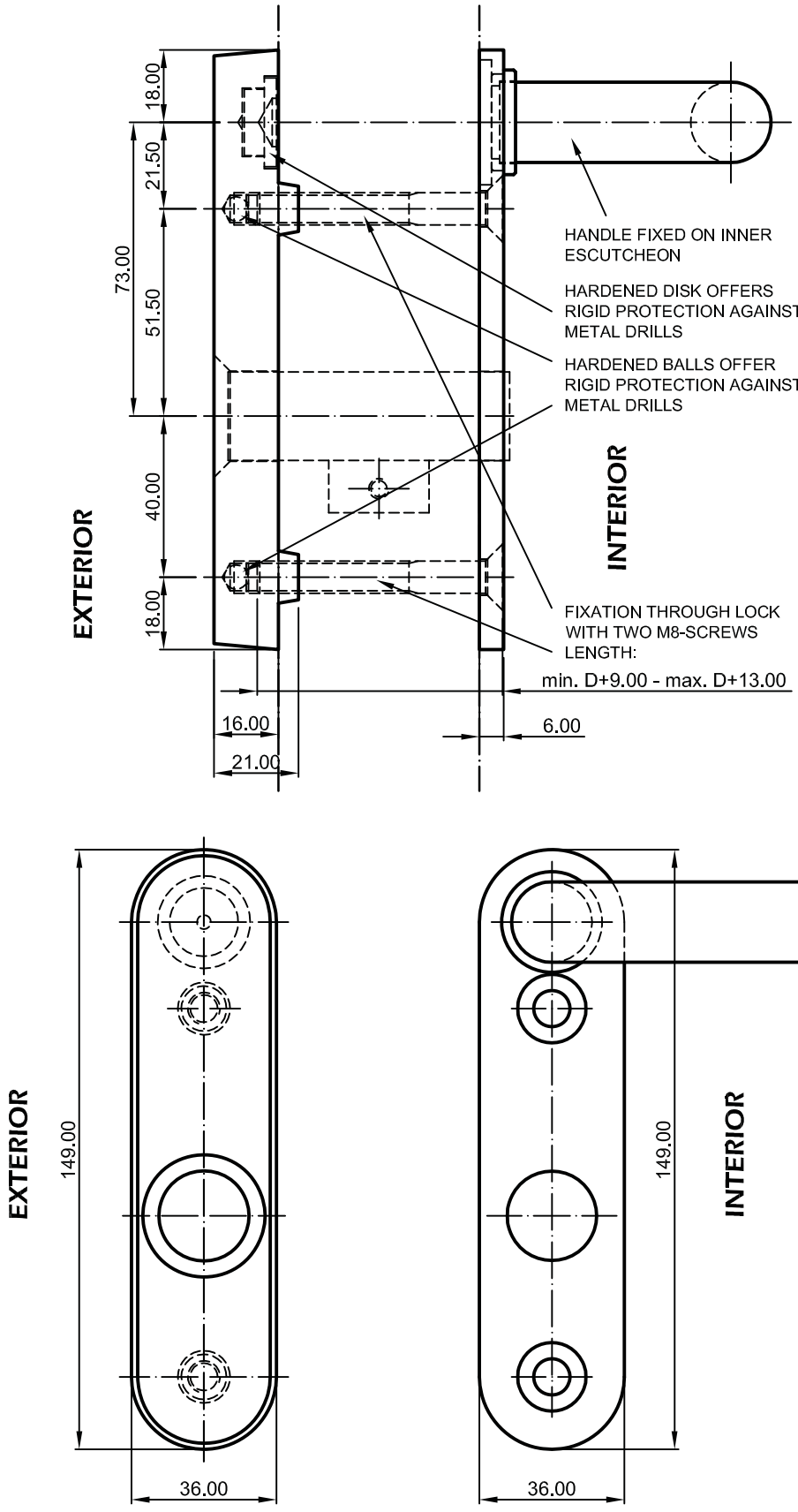

EXTERIOR
98.00
32.00
98.00
32.00
INTERIOR

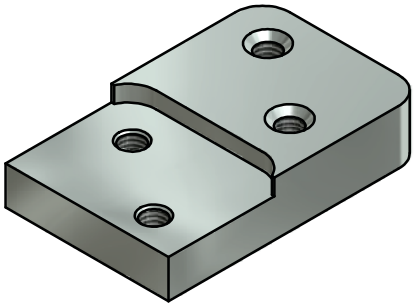
SECURITY ESCUTCHEON WITHOUT HANDLE / WITH KNOB SEK-17

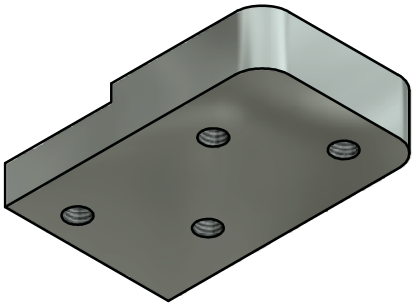


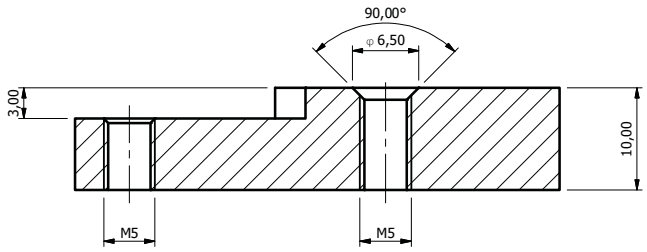

33.50
21.50
72.00
50.50
41.00
18.50
EXTERIOR
INTERIOR
HANDLE FIXED ON INNER ESCUTCHEON
HARDENED DISK OFFERS RIGID PROTECTION AGAINST METAL DRILLS
HARDENED BALLS OFFER RIGID PROTECTION AGAINST METAL DRILLS
FIXATION THROUGH LOCK WITH TWO M8-SCREWS LENGTH:
min. D+9.00 - max. D+13.00
28.00
16.00
D
6.00
21.00
EXTERIOR
165.00
DOOR KNOB CAN BE MOUNTED FOR LEFT OR RIGHT DOORS
ROTATING HARDENED DISK PROTECTS THE CYLINDER
37.00
164.00
INTERIOR
36.00

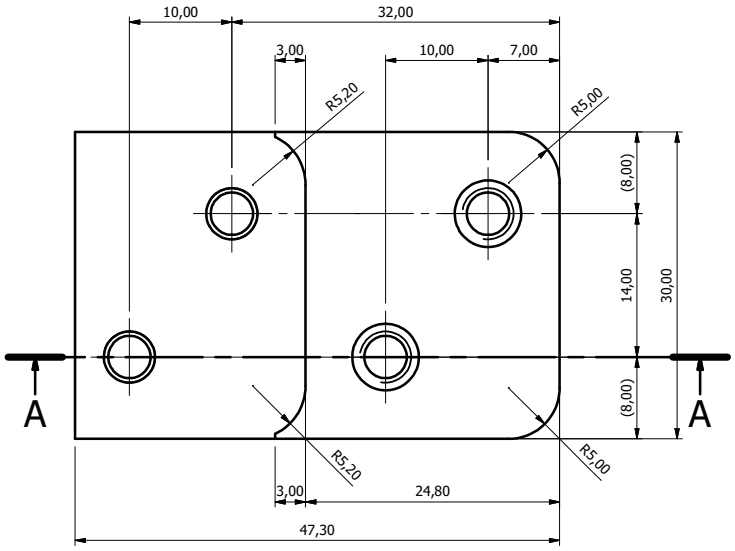

18.50
21.50
72.00
50.50
41.00
18.50
EXTERIOR
INTERIOR
HANDLE FIXED ON INNER ESCUTCHEON
HARDENED DISK OFFERS RIGID PROTECTION AGAINST METAL DRILLS
HARDENED BALLS OFFER RIGID PROTECTION AGAINST METAL DRILLS
FIXATION THROUGH LOCK WITH TWO M8-SCREWS LENGTH:
min. D+9.00 - max. D+13.00
16.00
D
6.00
21.00
EXTERIOR
150.00
ROTATING HARDENED DISK PROTECTS THE CYLINDER
37.00
149.00
INTERIOR
36.00


18.00
21.50
73.00
51.50
40.00
18.00
EXTERIOR
INTERIOR
HANDLE FIXED ON INNER ESCUTCHEON
HARDENED DISK OFFERS RIGID PROTECTION AGAINST METAL DRILLS
HARDENED BALLS OFFER RIGID PROTECTION AGAINST METAL DRILLS
FIXATION THROUGH LOCK WITH TWO M8-SCREWS LENGTH:
min. D+9.00 - max. D+13.00
16.00
21.00
6.00
EXTERIOR
149.00
36.00
149.00
INTERIOR
36.00

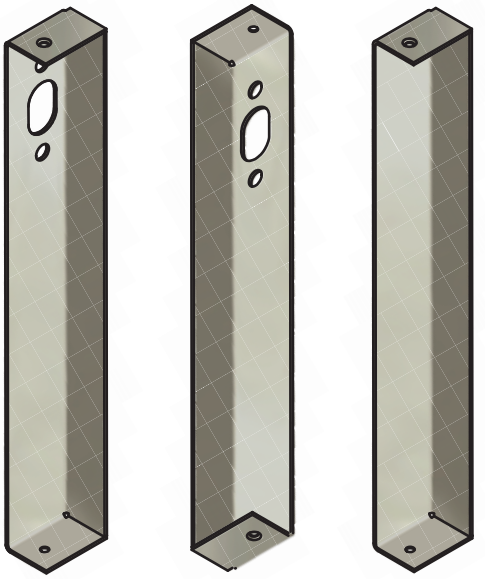




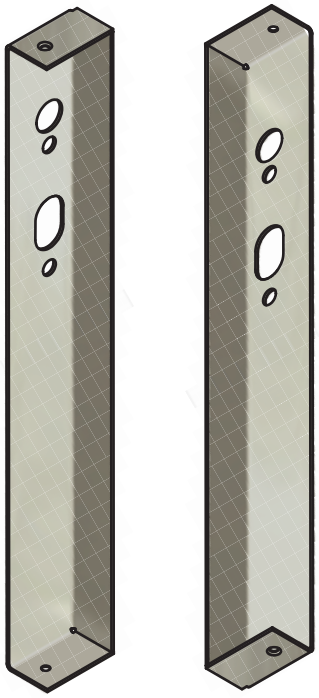

90,00°
φ 6,50
3,00
10,00
M5
M5


10,00
32,00
3,00
10,00
7,00
R5,20
R5,00
(8,00)
14,00
30,00
(8,00)
A
A
R5,20
R5,00
3,00
24,80
47,30

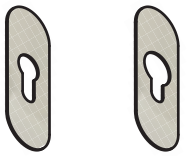
SMB-L SMB-R SMB-SN

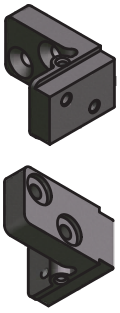


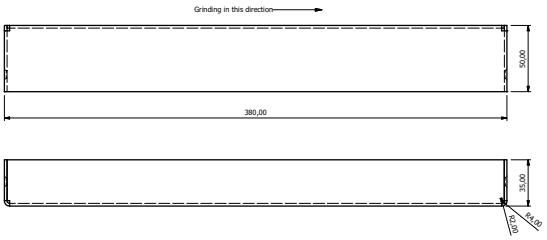
SMBH-L SMBH-R

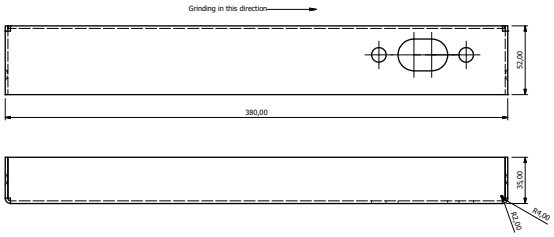


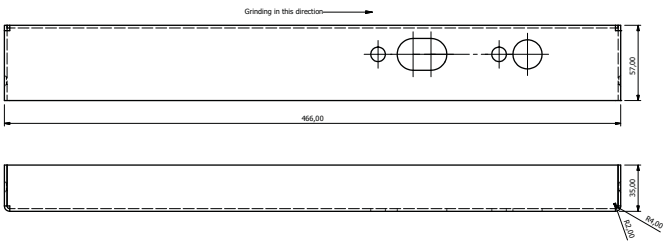
CC-17 CC-22











Notes

PRESCRIPTION TEXTS

Technical description: B&B A1 BASIC SANOCYL

00.00.00 Electromechanical security lock with 1 dead bolt (fail-safe – without cylinder).

Superior quality electromechanical security lock working according to the fail-safe principle (= unlocked without power). The locks have been manufactured to be operated by different impulse generators: push buttons, numeric keypads, card readers, key contacts, timers, etc. These should be equipped with a Normally-Open contact. These locks are mortise locks. The hardened duplex bolt, as well as the deadlock, are mounted on a solid baseplate. This baseplate is made of stainless steel (AISI 304, cast according to the lost-wax process). The stainless steel covers (AISI 304) provide a closed case. The striker plate in stainless steel has a moulded striker cup for extra protection of the bolt. The ASP striker plate has an adjustable striker cup, which can be adjusted 2mm to the left and 2mm to the right.

The control system integrated in the lock provides for automatic locking when the door closes. The lock detects the striker plate by means of 3 Hall-sensors on the printed circuit board (which is protected against humidity etc. by a polyurethane casted resin). Subsequently, the bolt is ejected by a single acting solenoid and instantaneously blocked by the deadlock. The lock will now switch from activation current to holding current. To unlock, contact must be made between terminal clamps 2 and 3. Subsequently, the current to the solenoid is interrupted by the internal printed circuit board, causing the bolt to be retracted by means of springs. The bolt will remain retracted until the door closes and the striker plate has been detected (when no permanent contact is made between the 2 terminal clamps mentioned before). If the door is not opened after the unlocking impulse, the lock will automatically relock after 4 seconds. In case of power failure, the lock will remain in or go to the unlocked position.

Due to its symmetrical bolt, the door can be used both left and right. These locks are usually integrated in the door frame in order to avoid the use of a cable transfer (in this case, the striker plate is integrated in the door leaf). These locks can also be installed horizontally, with the bolt pointing downwards. This lock can be used in combination with automatic door openers. These electric locks should always get continuous power supply. That will ensure that they retain their intelligence and therefore will know their position.

Signalisation is provided with regard to the position of the bolt (locked - unlocked) and the position of the door (closed - open). These contacts switch to GND when activated (24V DC / max. 100mA).

The lock complies with the standards EN 14846 (classification 3 M 9 0 0 L 7 1 1) - certificate of conformity SKGIKOB.009753.xx.EN and is conform DIN 18251 (part 1 – table 3) Class 5, EN 12209 (table 5) Class 7 and EN 1627 (table C1) Class 6. Furthermore, these locks are suitable for high frequency use and can be activated continuously.

For the proper functioning of the lock, a specific cable must be used: 2 x 1,5mm² (power cable) + 5 x 0,22mm² (signalisation wire); shielded (order separately with reference: BB25LSZH).

For the proper functioning of the lock, a specific power supply must be used: 24V DC; 2,5A stabilised power supply (order separately with reference: PS24D52).

For the proper functioning of the lock, the distance between the lock and the power supply should be maximum 25m (this to avoid too large a drop in power supply on the cable).

Features:

Voltage	24V DC
Consumption	2,35A activation current - 130mA holding current
Principle	Fail safe (= unlocked without power)
Backset	n/a (without cylinder block)
Direction	Both L and R - symmetrical bolt for both bumper doors and revolving doors
Unlocking	Access control makes contact between pin 2 and 3 on the lock, the bolt retracts by spring force
Automatic locking	Electrically, each time the door closes
Panic function	There is no handle, so not according to EN 179
Signalisation	Position of the door (open/closed) and position of the bolt (unlocked/locked), transistors switch actively to GND (24V DC / max. 100mA)
Resistance of the bolt	40'000N side load (measured directly on the bolt)
Throw of the bolt	20mm (in less than100 milliseconds)
Temperature resistance range	-25°C to +70°C
Fire doors	Not suitable as main locking point in fire doors (because it is fail safe)
Certification	EN 14846:2008 (classification 3 M 9 0 0 L 7 1 1) DIN 18251-deel 1 (class 5) DIN EN 12209 (class 7) DIN V ENV 1627 (class 6)

Technical description: B&B A1 BASIC SA

00.00.00 Electromechanical security lock with 1 dead bolt (fail-safe – without cylinder).

Superior quality electromechanical security lock working according to the fail-safe principle (= unlocked without power). The locks have been manufactured to be operated by different impulse generators: push buttons, numeric keypads, card readers, key contacts, timers, etc. These should be equipped with a Normally-Open contact. These locks are mortise locks suitable for both 17mm europrofile and 22mm round cylinders. The hardened duplex bolt, as well as the deadlock, are mounted on a solid baseplate. This baseplate is made of stainless steel (AISI 304, cast according to the lost-wax process). The stainless steel covers (AISI 304) provide a closed case. The striker plate in stainless steel has a moulded striker cup for extra protection of the bolt. The ASP striker plate has an adjustable striker cup, which can be adjusted 2mm to the left and 2mm to the right.

The control system integrated in the lock provides for automatic locking when the door closes. The lock detects the striker plate by means of 3 Hall-sensors on the printed circuit board (which is protected against humidity etc. by a polyurethane casted resin). Subsequently, the bolt is ejected by a single acting solenoid and instantaneously blocked by the deadlock. The lock will now switch from activation current to holding current. To unlock, contact must be made between terminal clamps 2 and 3. Subsequently, the current to the solenoid is interrupted by the internal printed circuit board, causing the bolt to be retracted by means of springs. Using a cylinder the bolt can also be unlocked mechanically; in this case the current to the solenoid is also interrupted (via a microswitch on both the cylinder and the slider). After the door has been opened, the key must be turned back and removed from the cylinder. The bolt will remain retracted until the door closes and the striker plate has been detected (when no permanent contact is made between the 2 terminal clamps mentioned before). If the door is not opened after the unlocking impulse, the lock will automatically relock after 4 seconds. In case of power failure, the lock will remain in or go to the unlocked position .

Due to its symmetrical bolt, the door can be used both left and right. These locks are usually integrated in the door frame in order to avoid the use of a cable transfer (in this case, the striker plate is integrated in the door leaf). These locks can also be installed horizontally, with the bolt pointing downwards. This lock can be used in combination with automatic door openers. These electric locks should always get continuous power supply. That will ensure that they retain their intelligence and therefore will know their position.

Signalisation is provided with regard to the position of the bolt (locked - unlocked) and the position of the door (closed - open) as well as the use of the cylinder. These contacts switch to GND when activated (24V DC / max. 100mA).

The lock complies with the standards EN 14846 (classification 3 M 9 0 0 L 7 1 1) - certificate of conformity SKGIKOB.009753.xx.EN and is conform DIN 18251 (part 1 – table 3) Class 5, EN 12209 (table 5) Class 7 and EN 1627 (table C1) Class 6. Furthermore, these locks are suitable for high frequency use and can be activated continuously.

For the proper functioning of the lock, a specific cable must be used: 2 x 1,5mm² (power cable) + 5 x 0,22mm² (signalisation wire); shielded (order separately with reference: BB25LSZH).

For the proper functioning of the lock, a specific power supply must be used: 24V DC; 2,5A stabilised power supply (order separately with reference: PS24D52).

For the proper functioning of the lock, the distance between the lock and the power supply should be maximum 25m (this to avoid too large a drop in power supply on the cable).

Features

Voltage	24V DC
Consumption	2,35A activation current - 130mA holding current
Principle	Fail safe (= unlocked without power)
Backset	available with backsets 25,30,35,50 and 60mm
Direction	Both L and R - symmetrical bolt for both bumper doors and revolving doors
Unlocking	Access control makes contact between pin 2 and 3 on the lock, the bolt retracts by spring force
Automatic locking	Electrically, each time the door closes
Panic function	There is no handle, so not according to EN 179
Signalisation	Position of the door (open/closed) and position of the bolt (unlocked/locked) as well as the use of the cylinder, transistors switch actively to GND (24V DC / max. 100mA)
Resistance of the bolt	40'000N side load (measured directly on the bolt)
Throw of the bolt	20mm (in less than100 milliseconds)
Temperature resistance range	-25°C to +70°C
Fire doors	Not suitable as main locking point in fire doors (because it is fail safe)
Certification	EN 14846:2008 (classification 3 M 9 0 0 L 7 1 1) DIN 18251-deel 1 (class 5) DIN EN 12209 (class 7) DIN V ENV 1627 (class 6)

Prescription Text : B&B A1 Basic SA
Fail Safe Lock with cylinder block, witout handle

Prescription text : B&B A1 Basic SX
Fail secure lock with cylinder block, witout handle

Technical description: B&B A1 BASIC SX

00.00.00 Electromechanical security lock with 1 dead bolt (fail secure).

Superior quality electromechanical security lock working according to the fail-secure principle (= locked without power). The locks have been manufactured to be operated by different impulse generators: push buttons, numeric keypads, card readers, key contacts, timers, etc. These should be equipped with a Normally-Open contact. The locks are mortise locks suitable for both 17mm europrofile and 22mm round cylinders . The hardened duplex bolt, as well as the deadlock are mounted on a solid baseplate. This baseplate as well as the cylinder block are made of stainless steel (AISI 304, cast according to the lost-wax process). The stainless steel covers (AISI 304) provide a closed case. The striker plate in stainless steel has a moulded striker cup for extra protection of the bolt. The ASP striker plate has an adjustable striker cup, which can be adjusted 2mm to the left and 2mm to the right.

The control system integrated in the lock provides for automatic locking when the door closes. The lock detects the striker plate by means of 3 Hall-sensors on the printed circuit board (which is protected against humidity etc. by a polyurethane casted resin). Subsequently, the bolt is ejected by spring force and instantaneously blocked by the deadlock. To unlock, contact must be made between terminal clamps 2 and 3. This will activate the solenoid to retract the bolt. The lock will now switch from activation current to holding current. Using a cylinder, the lock can also be unlocked mechanically. After the door has been opened, the key must be turned back and removed from the cylinder. The bolt will remain retracted until the door closes and the striker plate has been detected (when no permanent contact is made between the 2 terminal clamps mentioned before). If the door is not opened after the unlocking impulse, the lock will automatically relock after 4 seconds. In case of power failure, the lock will remain in or go to the locked position.

Due to its symmetrical bolt, the door can be used both left and right and it can be unlocked by a key on both the inside and outside at all times. These locks are usually integrated in the door frame in order to avoid the use of a cable transfer (in this case, the striker plate is integrated in the door leaf). This lock can be used in combination with automatic door openers. These electric locks should always get continuous power supply. That will ensure that they retain their intelligence and therefore will know their position.

Signalisation is provided with regard to the position of the bolt (locked - unlocked) and the position of the door (closed - open) as well as the use of the cylinder. These contacts switch to GND when activated (24V DC / max. 100mA).

The lock complies with the standards EN 14846 (classification 3 M 9 C 0 L 7 1 1) - certificate of constancy of performance 0960-CPR-SKGIKOB.009752.xx.EN - DoP1011, DIN 18251 (part 1 – table 3) Class 5, EN 12209 (table 5) Class 7 and EN 1627 (table C1) Class 6.

Furthermore, these locks are suitable for high frequency use (internally tested to 1'000'000 cycles @ 10'000 cycles per day) and can be activated continuously (because of the low holding current there is very little heat generated and therefore there is no loss of strength of the solenoid).

For the proper functioning of the lock, a specific cable must be used: 2 x 1,5mm² (power cable) + 5 x 0,22mm² (signalisation wire); shielded (order separately with reference: BB25LSZH).

For the proper functioning of the lock, a specific power supply must be used: 24V DC; 2,5A stabilised power supply (order separately with reference: PS24D52).

For the proper functioning of the lock, the distance between the lock and the power supply should be maximum 25m (this to avoid too large a drop in power supply on the cable).

Features:

Voltage	24V DC
Consumption	2,35A activation current - 130mA holding current
Principle	Fail secure (= locked without power)
Backset	available in backsets 25,30,35,50 and 60mm
Direction	Both L and R - symmetrical bolt for both bumper doors and revolving doors
Unlocking	Access control makes contact between pin 2 and 3 on the lock, the bolt retracts electrically or mechanically using the cylinder
Automatic locking	By spring force, each time the door closes
Panic function	No
Signalisation	Position of the door (open/closed) and position of the bolt (unlocked/locked) as well as the use of the cylinder, transistors switch actively to GND (24V DC / max. 100mA)
Resistance of the bolt	40'000N side load (measured directly on the bolt)
Throw of the bolt	20mm (in less than100 milliseconds)
Temperature resistance range	-25°C to +70°C
Fire doors	Suitable for use in fire doors
Certification	EN 14846:2008 (classification 3 M 9 C 0 L 7 1 1) DIN 18251-deel 1 (class 5) DIN EN 12209 (class 7) DIN V ENV 1627 (class 6)

Technical description: B&B A1 BASIC SE

00.00.00 Electromechanical security lock with 1 dead bolt (fail secure).

Superior quality electromechanical security lock working according to the fail-secure principle (= locked without power). The locks have been manufactured to be operated by different impulse generators: push buttons, numeric keypads, card readers, key contacts, timers, etc. These should be equipped with a Normally-Open contact. The locks are mortise locks suitable for both 17mm europrofile and 22mm round cylinders . The hardened duplex bolt, as well as the deadlock are mounted on a solid baseplate. This baseplate as well as the cylinder block are made of stainless steel (AISI 304, cast according to the lost-wax process). The stainless steel covers (AISI 304) provide a closed case. The striker plate in stainless steel has a moulded striker cup for extra protection of the bolt. The ASP striker plate has an adjustable striker cup, which can be adjusted 2mm to the left and 2mm to the right.
The control system integrated in the lock provides for automatic locking when the door closes. The lock detects the striker plate by means of 3 Hall-sensors on the printed circuit board (which is protected against humidity etc. by a polyurethane casted resin). Subsequently, the bolt is ejected by spring force and instantaneously blocked by the deadlock. To unlock, contact must be made between terminal clamps 2 and 3. This will activate the solenoid to retract the bolt. The lock will now switch from activation current to holding current. Using a cylinder, the lock can also be unlocked mechanically. After the door has been opened, the key must be turned back and removed from the cylinder. The bolt will remain retracted until the door closes and the striker plate has been detected (when no permanent contact is made between the 2 terminal clamps mentioned before). If the door is not opened after the unlocking impulse, the lock will automatically relock after 4 seconds. In case of power failure, the lock will remain in or go to the locked position*.

(*) *In case of a power blackout while the door is opened, the bolt will remain mechanically retracted by means of a SE locking pawl. The bolt will only be ejected and locked when the door closes and the SE locking pawl is pushed.*

Due to its symmetrical bolt, the door can be used both left and right and it can be unlocked by a key on both the inside and outside at all times. These locks are usually integrated in the door frame in order to avoid the use of a cable transfer (in this case, the striker plate is integrated in the door leaf). This lock can be used in combination with automatic door openers. These electric locks should always get continuous power supply. That will ensure that they retain their intelligence and therefore will know their position.
Signalisation is provided with regard to the position of the bolt (locked - unlocked) and the position of the door (closed - open) as well as the use of the cylinder. These contacts switch to GND when activated (24V DC / max. 100mA).
The lock complies with the standards EN 14846 (classification 3 M 9 C 0 L 7 1 1) - certificate of constancy of performance 0960-CPR-SKGIKOB.009752.xx.EN - DoP1011, DIN 18251 (part 1 – table 3) Class 5, EN 12209 (table 5) Class 7 and EN 1627 (table C1) Class 6.
Furthermore, these locks are suitable for high frequency use (internally tested to 1'000'000 cycles @ 10'000 cycles per day) and can be activated continuously (because of the low holding current there is very little heat generated and therefore there is no loss of strength of the solenoid).
For the proper functioning of the lock, a specific cable must be used: 2 x 1,5mm² (power cable) + 5 x 0,22mm² (signalisation wire); shielded (order separately with reference: BB25LSZH).
For the proper functioning of the lock, a specific power supply must be used: 24V DC; 2,5A stabilised power supply (order separately with reference: PS24D52).
For the proper functioning of the lock, the distance between the lock and the power supply should be maximum 25m (this to avoid too large a drop in power supply on the cable).

Features

Voltage	24V DC
Consumption	2,35A activation current - 130mA holding current
Principle	Fail secure (= locked without power); with „SE“ locking pawl
Backset	available in backsets 25,30,35,50 and 60mm
Direction	Both L and R - symmetrical bolt for both bumper doors and revolving doors
Unlocking	Access control makes contact between pin 2 and 3 on the lock, the bolt retracts electrically or mechanically using the cylinder
Automatic locking	By spring force, each time the door closes
Panic function	No
Signalisation	Position of the door (open/closed) and position of the bolt (unlocked/locked) as well as the use of the cylinder, transistors switch actively to GND (24V DC / max. 100mA)
Resistance of the bolt	40'000N side load (measured directly on the bolt)
Throw of the bolt	20mm (in less than100 milliseconds)
Temperature resistance range	-25°C to +70°C
Fire doors	Suitable for use in fire doors
Certification	EN 14846:2008 (classification 3 M 9 C 0 L 7 1 1) DIN 18251-deel 1 (class 5) DIN EN 12209 (class 7) DIN V ENV 1627 (class 6)

Prescription text : B&B A1 Basic SE
Fail secure lock with cylinder block, without handle with small deadlocking bolt

Prescription text : B&B A1 Basic HX
Fail secure lock with cylinder block and handle

Technical description: B&B A1 BASIC HX

00.00.00 Electromechanical security lock with 1 dead bolt (fail secure) and handle on the secure side.

Superior quality electromechanical security lock working according to the fail-secure principle (= locked without power). The locks have been manufactured to be operated by different impulse generators: push buttons, numeric keypads, card readers, key contacts, timers, etc. These should be equipped with a Normally-Open contact. The locks are mortise locks suitable for 17mm europrofile cylinders*. The hardened duplex bolt, as well as the deadlock are mounted on a solid baseplate. This baseplate as well as the cylinder block are made of stainless steel (AISI 304, cast according to the lost-wax process). The stainless steel covers (AISI 304) provide a closed case. The striker plate in stainless steel has a moulded striker cup for extra protection of the bolt. The ASP striker plate has an adjustable striker cup, which can be adjusted 2mm to the left and 2mm to the right.

The control system integrated in the lock provides for automatic locking when the door closes. The lock detects the striker plate by means of 3 Hall-sensors on the printed circuit board (which is protected against humidity etc. by a polyurethane casted resin). Subsequently, the bolt is ejected by spring force and instantaneously blocked by the deadlock. To unlock, contact must be made between terminal clamps 2 and 3. This will activate the solenoid to retract the bolt. The lock will now switch from activation current to holding current. Using a cylinder, the lock can also be unlocked mechanically. After the door has been opened, the key must be turned back and removed from the cylinder. The bolt will remain retracted until the door closes and the striker plate has been detected (when no permanent contact is made between the 2 terminal clamps mentioned before). If the door is not opened after the unlocking impulse, the lock will automatically relock after 4 seconds. In case of power failure, the lock will remain in or go to the locked position.

Due to its symmetrical bolt, the door can be used both left and right and it can be unlocked by a key on both the inside and outside at all times. The lock is equipped with a panic function; this means that when operated by handle or panic bar from the secure side, the bolt will always unlock mechanically (independent of current). The exit is always free. This lock can be used for emergency exits according to EN179 (classification 3 7 6 B 1 4 5 2 A B) - certificate of constancy of performance 0960-CPR-SKGIKOB.009758.xx.EN - DoP1013 and for panic exits according to EN1125 (classification 3 7 6 B 1 4 2 2 A B) - certificate of constancy of performance 0960-CPR-SKGIKOB.009760.xx.EN - DoP1014.. This lock can be used in combination with automatic door openers. These electric locks should always get continuous power supply. That will ensure that they retain their intelligence and therefore will know their position.

Signalisation is provided with regard to the position of the bolt (locked - unlocked) and the position of the door (closed - open) as well as the use of the cylinder and the handle. These contacts switch to GND when activated (24V DC / max. 100mA).

The lock complies with the standards EN 14846 (classification 3 M 9 C 0 L 7 1 1) - certificate of constancy of performance 0960-CPR-SKGIKOB.009752.xx.EN - DoP1011, DIN 18251 (part 1 – table 3) Class 5, EN 12209 (table 5) Class 7 and EN 1627 (table C1) Class 6. Furthermore, these locks are suitable for high frequency use and can be activated continuously.

For the proper functioning of the lock, a specific cable must be used: 2 x 1,5mm² (power cable) + 5 x 0,22mm² (signalisation wire); shielded (order separately with reference: BB25LSZH).

For the proper functioning of the lock, a specific power supply must be used: 24V DC; 2,5A stabilised power supply (order separately with reference: PS24D52).

For the proper functioning of the lock, the distance between the lock and the power supply should be maximum 25m (this to avoid too large a drop in power supply on the cable).

Features

Voltage	24V DC
Consumption	2,35A activation current - 130mA holding current
Principle	Fail secure (= locked without power)
Backset	available in backsets 35 and 60mm
Direction	Both L and R - symmetrical bolt for both bumper doors and revolving doors
Unlocking	Access control makes contact between pin 2 and 3 on the lock, the bolt retracts electrically or mechanically using the cylinder (from both sides) or handle (from the secure side)
Automatic locking	By spring force, each time the door closes
Panic function	Yes
Signalisation	Position of the door (open/closed) and position of the bolt (unlocked/locked) as well as the use of the cylinder and the handle, transistors switch actively to GND (24V DC / max. 100mA)
Resistance of the bolt	40'000N side load (measured directly on the bolt)
Throw of the bolt	20mm (in less than100 milliseconds)
Temperature resistance range	-25°C to +70°C
Fire doors	Suitable for use in fire doors
Certification	EN 14846:2008 (classification 3 M 9 C 0 L 7 1 1) DIN 18251-deel 1 (class 5) DIN EN 12209 (class 7) DIN V ENV 1627 (class 6) EN 179:2008 (classification 3 7 6 B 1 4 5 2 A B) EN 1125:2008 (classification 3 7 6 B 1 4 2 2 A B)

***Technical description*: B&B A1 BASIC HE**

00.00.00 Electromechanical security lock with 1 dead bolt (fail secure) and handle on the secure side.

Superior quality electromechanical security lock working according to the fail-secure principle (= locked without power). The locks have been manufactured to be operated by different impulse generators: push buttons, numeric keypads, card readers, key contacts, timers, etc. These should be equipped with a Normally-Open contact. The locks are mortise locks suitable for 17mm europrofile cylinders*. The hardened duplex bolt, as well as the deadlock are mounted on a solid baseplate. This baseplate as well as the cylinder block are made of stainless steel (AISI 304, cast according to the lost-wax process). The stainless steel covers (AISI 304) provide a closed case. The striker plate in stainless steel has a moulded striker cup for extra protection of the bolt. The ASP striker plate has an adjustable striker cup, which can be adjusted 2mm to the left and 2mm to the right.

The control system integrated in the lock provides for automatic locking when the door closes. The lock detects the striker plate by means of 3 Hall-sensors on the printed circuit board (which is protected against humidity etc. by a polyurethane casted resin). Subsequently, the bolt is ejected by spring force and instantaneously blocked by the deadlock. To unlock, contact must be made between terminal clamps 2 and 3. This will activate the solenoid to retract the bolt. The lock will now switch from activation current to holding current. Using a cylinder, the lock can also be unlocked mechanically. After the door has been opened, the key must be turned back and removed from the cylinder. The bolt will remain retracted until the door closes and the striker plate has been detected (when no permanent contact is made between the 2 terminal clamps mentioned before). If the door is not opened after the unlocking impulse, the lock will automatically relock after 4 seconds. In case of power failure, the lock will remain in or go to the locked position**.

(**) *In case of a power blackout while the door is opened, the bolt will remain mechanically retracted by means of a SE locking pawl. The bolt will only be ejected and locked when the door closes and the SE locking pawl is pushed.*

Due to its symmetrical bolt, the door can be used both left and right and it can be unlocked by a key on both the inside and outside at all times. The lock is equipped with a panic function; this means that when operated by handle or panic bar from the secure side, the bolt will always unlock mechanically (independent of current). The exit is always free. This lock can be used for emergency exits according to EN179 (classification 3 7 6 B 1 4 5 2 A B) - certificate of constancy of performance 0960-CPR-SKGIKOB.009758.xx.EN - DoP1013 and for panic exits according to EN1125 (classification 3 7 6 B 1 4 2 2 A B) - certificate of constancy of performance 0960-CPR-SKGIKOB.009760.xx.EN - DoP1014.. This lock can be used in combination with automatic door openers. These electric locks should always get continuous power supply. That will ensure that they retain their intelligence and therefore will know their position.

Signalisation is provided with regard to the position of the bolt (locked - unlocked) and the position of the door (closed - open) as well as the use of the cylinder and the handle. These contacts switch to GND when activated (24V DC / max. 100mA).

The lock complies with the standards EN 14846 (classification 3 M 9 C 0 L 7 1 1) - certificate of constancy of performance 0960-CPR-SKGIKOB.009752.xx.EN - DoP1011, DIN 18251 (part 1 – table 3) Class 5, EN 12209 (table 5) Class 7 and EN 1627 (table C1) Class 6. Furthermore, these locks are suitable for high frequency use and can be activated continuously.

For the proper functioning of the lock, a specific cable must be used: 2 x 1,5mm² (power cable) + 5 x 0,22mm² (signalisation wire); shielded (order separately with reference: BB25LSZH).

For the proper functioning of the lock, a specific power supply must be used: 24V DC; 2,5A stabilised power supply (order separately with reference: PS24D52).

For the proper functioning of the lock, the distance between the lock and the power supply should be maximum 25m (this to avoid too large a drop in power supply on the cable).

Features

Voltage	24V DC
Consumption	2,35A activation current - 130mA holding current
Principle	Fail secure (= locked without power); with „SE“ locking pawl
Backset	available in backsets 35 and 60mm
Direction	Both L and R - symmetrical bolt for both bumper doors and revolving doors
Unlocking	Access control makes contact between pin 2 and 3 on the lock, the bolt retracts electrically or mechanically using the cylinder (from both sides) or handle (from the secure side)
Automatic locking	By spring force, each time the door closes
Panic function	Yes
Signalisation	Position of the door (open/closed) and position of the bolt (unlocked/locked) as well as the use of the cylinder and the handle, transistors switch actively to GND (24V DC / max. 100mA)
Resistance of the bolt	40'000N side load (measured directly on the bolt)
Throw of the bolt	20mm (in less than100 milliseconds)
Temperature resistance range	-25°C to +70°C
Fire doors	Suitable for use in fire doors
Certification	EN 14846:2008 (classification 3 M 9 C 0 L 7 1 1) DIN 18251-deel 1 (class 5) DIN EN 12209 (class 7) DIN V ENV 1627 (class 6) EN 179:2008 (classification 3 7 6 B 1 4 5 2 A B) EN 1125:2008 (classification 3 7 6 B 1 4 2 2 A B)

Prescription text : B&B A1 Basic HE
Fail secure lock with cylinder block and handle with small deadlocking bolt

Notes

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