SmartIntego Digital SmartHandle AX

Manual 20.03.2024





Contents

1.	Intended use				
2.	General				
3.	General safety instructions				
4.	Prod	uct-specific safety instructions	12		
5.	Mear	ning of the text formatting			
6.	Versions				
	6.1 Mechanical Override (MO)				
	6.2	Profiles			
	6.3	Fastening			
	6.4	Distances and door thicknesses			
	6.5	PAS24			
	6.6	SmartHandle AX without electronics			
	6.7	Spindle			
	6.8	Handle variants			
	6.9	Surface finishes			
	6.10) Reader technology			
	6.11	Escape&Return function			
7.	Insta	allation	22		
	7.1	Installation instructions	22		
	7.2	Variant A0 (Standing installation)	22		
		7.2.1 Product-specific safety instructions			
		7.2.2 Scope of delivery			
		7.2.3 Design			
		7.2.4 Prepare door (drilling template)			
		7.2.5 For door thickness X: prepare threaded rods and spindle7.2.6 Programming the fitting			
		7.2.0 Frogramming the fitting 7.2.7 Installing the fitting			
	7.3	Variant A1 and A2 (Downward installation)			
	7.0	7.3.1 Glass door fitting			
		7.3.2 Product-specific safety instructions			
		7.3.3 Scope of delivery			
		7.3.4 Design			
		7.3.5 Prepare door (drilling template)			
		7.3.6 For door thickness X: prepare threaded rods and spindle	б4		
		7.3.7 Programming the fitting			
		7.3.8 Installing the fitting			

7.4	Variar	nt A1.PAS24 (Downward installation with PAS24)	
	7.4.1	Product-specific safety instructions	
	7.4.2	Scope of delivery	
	7.4.3	Structure	
	7.4.4	Prepare door (drilling template)	
	7.4.5	Programming the fitting	
	7.4.6	Installing the fitting	
7.5	Variar	nt A3 (Tubular frame)	
	7.5.1	Product-specific safety instructions	
	7.5.2	Scope of delivery	
	7.5.3	Design	
	7.5.4	Prepare door (drilling template)	
	7.5.5	For door thickness X: prepare spindle	
	7.5.6	Programming the fitting	
	7.5.7	Installing the fitting	119
7.6	Variar	nt A4.P11 (CISA panic bar)	
	7.6.1	Product-specific safety instructions	
	7.6.2	Scope of delivery	135
	7.6.3	CISA design	
	7.6.4	Preparing the door for CISA (drilling template)	136
	7.6.5	Programming the fitting	
	7.6.6	Installing the fitting for CISA	
7.7	Variar	nt A4.P1/A4.P2 (BKS panic bar)	
	7.7.1	Product-specific safety instructions	
	7.7.2	Scope of delivery	157
	7.7.3	BKS design	
	7.7.4	Preparing the door for BKS (drilling template)	
	7.7.5	Programming the fitting	
	7.7.6	Installing the fitting for BKS	170
7.8	Variar	nt DS (Reader on both sides)	179
	7.8.1	Product-specific safety instructions	179
	7.8.2	Scope of delivery	
	7.8.3	Design	
	7.8.4	Prepare door (drilling template)	182
	7.8.5	For door thickness X: prepare threaded rods and spindle	
	7.8.6	Programming the fitting	
	7.8.7	Installing the fitting	193
7.9	Variar	nts E0 and E1 (Scandinavian Oval)	
	7.9.1	Product-specific safety instructions	
	7.9.2	Scope of delivery	
	7.9.3	Design	
	7.9.4	For door thickness X: prepare threaded rods and spindle	210
	7.9.5	For inner door handle, clockwise: prepare stud bolts	

		7.9.6 7.9.7	Programming the fitting Installing the fitting	
	7.10	Variant 7.10.1 7.10.2 7.10.3 7.10.4 7.10.5	t F1 (French 195 mm backplate) Product-specific safety instructions Scope of delivery Design Programming the fitting Installing the fitting	226 227 227 227
	7.11	LockNo 7.11.1 7.11.2	ode (LN) Information for SmartIntego users Fitting the LockNode	238
	7.12	FSB ac 7.12.1 7.12.2 7.12.3	lapter Scope of delivery Structure Install FSB handle with adapter	243 243 244
8.	Prog	ramming	g	251
9.	Conf	iguratio	n	252
10.	Statu	us messa	ages	253
11.	Signa	al		254
12.				
13.	Batte	ery repla	cement	256
	13.1		tions on battery replacement	
	13.2	Proced	lure	256
14.	Main	tenance	e, cleaning and disinfection	259
15.	Disas	sembly		260
	15.1	Variant	te A0 (Standing/PAS24)	260
	15.2	Variant	t A1/A2 (suspended short/long)	261
	15.3	Variant	t A3 (steel frame)	263
	15.4	15.4.1	t A4 (Panic bar) BKS CISA	264
	15.5		iant (reader on both sides)	
	15.6		t E0 and E1 (Scandinavian Oval)	
	15.7		t F1 (French 195 mm backplate)	
16.				
17.	l ech	nical sp	ecifications	2/7

	17.1	1 Mechanical system 27		
		17.1.1	Dimensional drawings SmartHandle AX	281
		17.1.2	Dimensional drawings handles	291
		17.1.3	Drilling templates	293
18.	Decla	aration o	of conformity	299
19.	Help and other information			300

1. Intended use

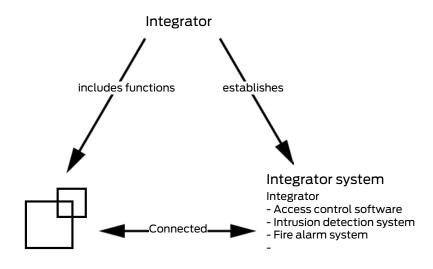
Products in the SI.SmartHandle AX range consist of electronic door fittings. Users can engage SI.SmartHandle AX and open the door onto which it is fitted with an authorised ID medium, such as a transponder.

The corresponding authorisations need to be issued using an electronic locking plan.

Products in the SI.SmartHandle AX range may only be used for locking and unlocking doors. No other use is permitted.

SmartIntego is an independent product group from SimonsVoss. The SmartIntego components can be set up using the SimonsVoss configuration software and connected to an integrator system via the SmartIntego interface. The integrator is usually a manufacturer of building management software (access control software, EMEA solution, fire alarm system, etc.), in which the SimonsVoss SmartIntego locking devices are also managed. It develops the interface to his system independently and is also responsible for the connected functions. The SmartIntego interface is available in two versions:

- SmartIntego WirelessOnline (WO)
- SmartIntego Virtual Card Network (SVCN)



2. General

The SI.SmartHandle AX is an electronic fitting that can be used to open and close a door.

Electronic fittings in the this range are available in the following models (also see *Versions* [\blacktriangleright 14]):

Digital SI.SmartHandle AX	Description
Variant A0/B0	 Electronic door handle for mounting on prepared escutcheon holes for stationary installation
	 Suitable for handle locks with Euro profile (A) or SwissRound (B)
	Outer side operated with identification medium only
	Inner side permanently engaged to open
	Optional: Mechanical Override (MO)
	Optional: FH approval
Variants A1/ A1, B1/ A2	 Electronic door handle for mounting on prepared escutcheon holes for suspended installation
	 Suitable for handle locks with Euro profile (A) or SwissRound (B)
	Outer side operated with identification medium only
	Inner side permanently engaged to open
	Optional: FH approval
	Optional: PAS24 certification
Variant A3	 Electronic door handle for mounting on prepared metal frame doors
	Suitable for handle locks with a Euro Profile
	Outer side operated with identification medium only
	Inner side permanently engaged to open
	Optional: Mechanical Override (MO)
	Optional: FH approval

Digital SI.SmartHandle AX	Description
DS version	 Electronic door handle for mounting on prepared escutcheon holes for stationary installation
	Suitable for handle locks with Euro profile (A) or SwissRound (B)
	 Outside and inside can only be operated with identification medium
	Optional: Mechanical Override (MO)
Variant A4	 Electronic door handle for stationary installation with panic bar adaptation
	 Suitable for handle locks with a Euro Profile
A A A A	Outer side operated with identification medium only
	Inner side permanently engaged to open
	Optional: Mechanical Override (MO)
	Optional: FH approval
Variants E0, E1	
	 Electronic door handle for mounting on predrilled holes for Scandinavian Oval
	Outer side operated with identification medium only
	Inner side permanently engaged to open
	Optional: Mechanical Override (MO)
	Optional: FH approval

3. General safety instructions

Signal word: Possible immediate effects of non-compliance

WARNING: Death or serious injury (possible, but unlikely) CAUTION: Minor injury IMPORTANT: Property damage or malfunction NOTE: Low or none



WARNING

Blocked access

Access through a door may stay blocked due to incorrectly fitted and/or incorrectly programmed components. SimonsVoss Technologies GmbH is not liable for the consequences of blocked access such as access to injured or endangered persons, material damage or other damage!

Blocked access through manipulation of the product

If you change the product on your own, malfunctions can occur and access through a door can be blocked.

Modify the product only when needed and only in the manner described in the documentation.

Do not swallow battery. Danger of burns from hazardous substances

This product contains lithium button cell batteries. Swallowing the button cell battery, in can result in severe internal burns leading to death in as little as two hours.

- 1. Keep new and used batteries away from children.
- 2. If the battery compartment does not close securely, cease using the product and keep it away from children.
- 3. If you think batteries have been swallowed or are in any part of the body, seek medical attention immediately.

Risk of explosion due to incorrect battery type

Inserting the wrong type of battery can cause an explosion.

Only use the batteries specified in the technical data.



CAUTION

Fire hazard posed by batteries

The batteries used may pose a fire or burn hazard if handled incorrectly.

- 1. Do not try to charge, open, heat or burn the batteries.
- 2. Do not short-circuit the batteries.

IMPORTANT

Damage resulting from electrostatic discharge (ESD) when enclosure is open

This product contains electronic components that may be damaged by electrostatic discharges.

- 1. Use ESD-compliant working materials (e.g. Grounding strap).
- 2. Ground yourself before carrying out any work that could bring you into contact with the electronics. For this purpose, touch earthed metallic surfaces (e.g. door frames, water pipes or heating valves).

Damage resulting from liquids

This product contains electronic and/or mechanic components that may be damaged by liquids of any kind.

Keep liquids away from the electronics.

Damage resulting from aggressive cleaning agents

The surface of this product may be damaged as a result of the use of unsuitable cleaning agents.

Only use cleaning agents that are suitable for plastic or metal surfaces.

Damage as a result of mechanical impact

This product contains electronic components that may be damaged by mechanical impacts of any kind.

- 1. Avoid touching the electronics.
- 2. Avoid other mechanical influences on the electronics.

Damage due to polarity reversal

This product contains electronic components that may be damaged by reverse polarity of the power source.

Do not reverse the polarity of the voltage source (batteries or mains adapters).

Operational malfunction due to radio interference

This product may be affected by electromagnetic or magnetic interference.

Do not mount or place the product directly next to devices that could cause electromagnetic or magnetic interference (switching power supplies!).

Communication interference due to metallic surfaces

This product communicates wirelessly. Metallic surfaces can greatly reduce the range of the product.

Do not mount or place the product on or near metallic surfaces.



NOTE

Intended use

SmartIntego-products are designed exclusively for opening and closing doors and similar objects.

Do not use SmartIntego products for any other purposes.

Malfunctions due to poor contact or different discharge

Contact surfaces that are too small/contaminated or different discharged batteries can lead to malfunctions.

- 1. Only use batteries that are approved by SimonsVoss.
- 2. Do not touch the contacts of the new batteries with your hands.
- 3. Use clean and grease-free gloves.
- 4. Always replace all batteries at the same time.

Different times for G2 locks

The internal time unit of the G2 locks has a technical tolerance of up to \pm 15 minutes per year.

Qualifications required

The installation and commissioning requires specialized knowledge.

Only trained personnel may install and commission the product.

Incorrect installation

SimonsVoss Technologies GmbH accepts no liability for damage caused to doors or components due to incorrect fitting or installation.

Modifications or further technical developments cannot be excluded and may be implemented without notice.

The German language version is the original instruction manual. Other languages (drafting in the contract language) are translations of the original instructions.

Read and follow all installation, installation, and commissioning instructions. Pass these instructions and any maintenance instructions to the user.

4. Product-specific safety instructions

IMPORTANT

Damage by drilling

You drill at your own risk. SimonsVoss Technologies GmbH is not liable for damage caused by drilling.

Please also observe the safety instructions of the drilling machine.

Damage caused by unsuitable tools

If you try to open the case with unsuitable tools, the case may be damaged.

Use only the supplied SimonsVoss opening tool.



NOTE

Effect on the mortise lock

The SI.SmartHandle AX acts exclusively on the latch of the mortise lock.

Locking and insurances

Insurance companies place increased demands on a closure.

- 1. If you want to lock the door under insurance law, use a self-locking panic lock or a locking cylinder in addition to the SI.SmartHandle AX.
- 2. Pay attention to the approvals according to EN 179.

SI.SmartHandle AX with self-locking panic lock

The SI.SmartHandle AX only offers full functionality with a self-locking panic lock.

- 1. Combine the SI.SmartHandle AX with a self-locking panic lock.
- Pay attention to the declarations of conformity of the lock manufacturers according to EN 179.

Conditions for authorisation security

Operation with Mifare Classic and/or PinCode keypad excludes authorisation security class D according to DIN EN 16867:2020.

5. Meaning of the text formatting

This documentation uses text formatting and design elements to facilitate understanding. The table explains the meaning of possible text formatting:

Example	button
Example	checkbox
● Example	Option
[Example]	Tab
"Example"	Name of a displayed window
Example	Upper programme bar
Example	Entry in the expanded upper pro- gramme bar
Example	Context menu entry
▼ Example	Name of a drop-down menu
"Example"	Selection option in a drop-down menu
"Example"	Area
Example	Field
Example	Name of a (Windows) service
Example	Commands (e.g. Windows CMD commands)
Example	Database entry
[Example]	MobileKey type selection

6. Versions



NOTE

Avoidance of incorrect orders through the order placement guide

SmartIntego components offer a wide variety of combinations. Not every combination makes sense and is actually available. A manual compilation of the product features can lead to combinations that are not available or to incorrect orders.

 Always use the order placement guide from the partner area of the SmartIntego website (*www.smartintego.com*)).

6.1 Mechanical Override (MO)

You can also install a mechanical locking cylinder (see *Profiles* [\bullet 14]). This enables you to open the door without using the electronics and open the door with a mechanical key.

This allows you to set up a mechanical fire brigade lock for rescue services.

Order according to your aesthetic needs:

- Cut-out for the cylinder open on both sides
- Cut-out for the cylinder open on one side
- Cut-out for the cylinder concealed on both sides (completely concealed and invisible cylinder)

6.2 Profiles

Choose from the following mortise lock profiles for your SI.SmartHandle AX:

Euro profile cylinder	Swiss Round	Scandinavian Oval
\bigcirc		

6.3 Fastening

You can use the following mounting variants:

Fastening				
Rosette fastening with (optional) mechanical override	 Variant A0 (Standing installation) [> 22] Variant A1 and A2 (Downward installation) [> 49] Variant DS (Reader on both sides) [> 179] Variants E0 and E1 (Scandinavian Oval) [> 208] Variant A1.PAS24 (Downward installation with PAS24) [> 79] 	You fasten the SI.SmartHandle AX through the drill holes and holes provided in the mortise lock.		
Mounting on a tubular frame with (optional) mechanical override	Variant A3 (Tubular frame) [▶ 106]	You fasten the SI.SmartHandle AX to adapter plates. These adapter plates are screwed onto the tubu- lar frame using rivet nuts.		
Rosette fastening with panic bar adaptation	 Variant A4.P11 (CISA panic bar) [+ 134] Variant A4.P1/A4.P2 (BKS panic bar) [+ 156] 	You fasten the using adapter SI.SmartHand- le AX plates through drill holes and the holes provided in the mortise lock. A panic bar, which must be ordered separ- ately, can then be fitted on the inner side.		
Backplate mounting	Variant F1 (French 195 mm backplate) [▶ 226]	You attach the SI.SmartHandle AX through the drill holes of adapter plates.		

6.4 Distances and door thicknesses

A* = Euro Profile, B* = Swiss Round, E* = Scandinavian Oval

Versions	Centre distance	Door thickness
	not relevant (standing installation: handle shaft axis and profile cylinder axis not con- nected to the escut- cheon)	S: 38 - 60 mm
A0/B0		M: 59 - 80 mm
Stationary		L: 79 - 100 mm
		X: 100 - 200 mm
	not relevant (standing	S: 38 - 60 mm
A0.PAS	installation: handle shaft axis and profile	M: 59 - 80 mm
Standing (PAS24)	cylinder axis and profile cylinder axis not con- nected to the escut- cheon)	L: 79 - 100 mm
		S: 38 - 60 mm
A1/B1	70 70 20 20	M: 59 - 80 mm
Suspended, short	70 - 79 mm	L: 79 - 100 mm
		X: 100 - 200 mm
	70 - 110 mm	S: 38 - 60 mm
A2/B2		M: 59 - 80 mm
Suspended, long		L: 79 - 100 mm
		X: 100 - 200 mm
	not relevant (standing installation: handle shaft axis and profile cylinder axis not con- nected to the escut- cheon)	S: 38 - 57 mm
A3		M: 58 - 77 mm
Metal frame		L: 78 - 97 mm
		X: 97 - 196 mm
	92 mm (BKS Full-leaf	S: 38 - 60 mm
	door, without back- plate)	M: 59 - 80 mm
A4	72 mm (CISA Solid	L: 79 - 100 mm
Panic bar	Door with backplate or BKS Solid Door without backplate)	X: 100 - 200 mm

Versions	Centre distance	Door thickness
	not relevant (standing installation: handle shaft axis and profile cylinder axis not con- nected to the escut- cheon)	S: 38 - 58 mm
DS		M: 59 - 78 mm
Double-sided scanning		L: 79 - 99 mm
(Double-sided)		X: 100 - 200 mm
	105 mm	S: 38 - 60 mm
E0, E1		M: 59 - 80 mm
Scandinavian Oval		L: 79 - 100 mm
		X: 100 - 200 mm
F1		S: 38 - 60 mm
French 195 mm back-	70 mm	M: 58 - 80 mm
plate		L: 78 - 100 mm

6.5 PAS24

SI.SmartHandle AX is also available with PAS24 certification (see *https://www.simons-voss.com/de/zertifikate.html*)

This version also meets the highest security requirements, guarantees sustainable functionality even in extreme situations and provides optimum protection against break-ins or attempted manipulation.

6.6 SmartHandle AX without electronics

SI.SmartHandle AX is also available (for example for design purposes) without electronics. The square is then always continuous and the door can therefore be operated from both sides without an identification medium.

If you want to lock the door, you need a variant with mechanical override (MO). Here you can lock the door with an additional cylinder (see *Profiles* [> 14]).

6.7 Spindle

You can use the following square sizes:

Square size	
7 mm	
8 mm	

Square size	
8.5 mm	with sleeve attached to 8 mm (not included in delivery)sold separately
	Order the fire-retardant version of
9 mm	the SI.SmartHandle AX or fire doors and emergency exit locks.
10 mm	With sleeve attached to 8 mm (already included in the scope of delivery for ordered 10 mm version of the SI.SmartHandle AX)

6.8 Handle variants

You can personalise your SI.SmartHandle AX with the following handle variants:

Letter	Description	
A	L shape R (rounded)	
В	L shape G (mitred)	
С	U shape R (rounded)	

Letter	Description	
D	U shape G (mitred)	
L	U shape (round and offset)	
0	Supplied without handle (for third-party handles, see <i>Acce</i> .	

6.9 Surface finishes

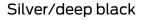
Select your surface finish SI.SmartHandle AX from:

Silver/black-grey



Silver/white







Brass/white



6.10 Reader technology

Depending on the equipment, your SI.SmartHandle AX supports the following scanning methods:

- Passive (MIFARE Classic, Plus, DESFire)
- BLE (Bluetooth Low Energy. SI.SmartHandle AX is prepared and can be retrofitted after release)

The double-sided reading variant is a special version of the upright SmartHandle AX that can be combined with an additional upright SmartHandle AX to create a double-sided reading escutcheon.

Alternatively, it is SI.SmartHandle AX also available without electronics or permanent coupling.

6.11 Escape&Return function

DoorMonitoring SmartHandles come with the Escape&Return function. This allows opening without the need to press an identification medium again, shortly after the door was closed.

The function is activated by selecting the corresponding check box and the specification of a time window in the integrator system. It must then be programmed with the SmartIntego tool.

Escape & Return: Enabled:	v	
Time:	30	Sec
Supress Signal:		



NOTE

Escape & Return: Legal situation

The Escape & Return Timeout can be between 30 s and 240 s (WO) respectively 1 s and 240 s (SVCN). The use and configuration of Escape & Return may be subject to legal regulations (e.g. Norway).

Inform yourself in advance about legal regulations.

A sensor in the SmartHandle detects that the inside handle has been operated. The SmartHandle then engages for an adjustable time and signals this visually and acoustically.

Disengagement takes place after the previously defined time. The user can also disengage the locking device manually (thus canceling the escape and return function) by holding his card two seconds in front of the lock's card reader.

The signalling of the Escape&Return function can be switched off.

Example:

If a guest leaves their hotel room and smells smoke in the corridor, they can go back into their room immediately.

Example 2:

Student residence / retirement home: In many cases, the user notices that he forgot the card immediately after he or she closed the door. With Escape & Return the user can solve this problem himself.

7. Installation

You can programme the SI.SmartHandle AX while it is still in the packaging (except MP) and then install it.

You will also find information on installing the SI.SmartHandle AX in the accompanying quick guide.

7.1 Installation instructions

- The batteries are already fitted.
- Do not touch electronics/components; do not allow them to come into contact with oil, paint, moisture, alkali or acids.
- Keep away from sources of interference, such as power supply units.
- You must not strike the product while installing the cylinder.
- Attach plan to the door. Do not install while bent or tensioned.
- Use the supplied drilling template.
- If required, fit the supplied dummy cylinder to comply with approval requirements for FH variants.
- Only undo the indicated screws.

7.2 Variant A0 (Standing installation)

7.2.1 Product-specific safety instructions

IMPORTANT

Damage by drilling

You drill at your own risk. SimonsVoss Technologies GmbH is not liable for damage caused by drilling.

Please also observe the safety instructions of the drilling machine.

Damage caused by unsuitable tools

If you try to open the case with unsuitable tools, the case may be damaged.

Use only the supplied SimonsVoss opening tool.

Loss of the precise guidance of the handle

It may be difficult to install on mortise locks with a retaining nut.

Do not mechanically alter the locking nut. The handle would then lose its precise guidance.

Difficult installation due to inaccurate holes

The fitting cannot be installed if the fastening holes and the spindle do not match.

Make sure that the fastening holes and the spindle are in parallel vertical lines.



NOTE

Incorrect installation

SimonsVoss Technologies GmbH accepts no liability for damage caused to doors or components due to incorrect fitting or installation.

Effect on the mortise lock

The SI.SmartHandle AX acts exclusively on the latch of the mortise lock.

Locking and insurances

Insurance companies place increased demands on a closure.

- 1. If you want to lock the door under insurance law, use a self-locking panic lock or a locking cylinder in addition to the SI.SmartHandle AX.
- 2. Pay attention to the approvals according to EN 179.

SI.SmartHandle AX with self-locking panic lock

The SI.SmartHandle AX only offers full functionality with a self-locking panic lock.

- 1. Combine the SI.SmartHandle AX with a self-locking panic lock.
- 2. Pay attention to the declarations of conformity of the lock manufacturers according to EN 179.

Conditions for authorisation security

Operation with Mifare Classic and/or PinCode keypad excludes authorisation security class D according to DIN EN 16867:2020.

Sealing escutcheon holes

Any escutcheon holes that exist may be used to manipulate the lock.

- 1. Seal any escutcheon holes with a blind cylinder, for example.
- 2. In the case of FH versions, you must be install a brass dummy cylinder or locking cylinder.

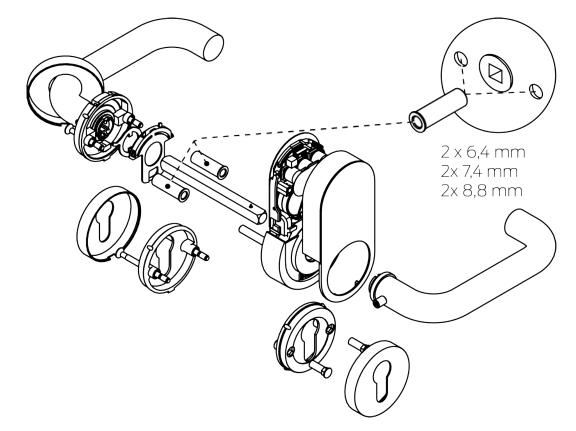
7.2.2 Scope of delivery

- SI.SmartHandle AX (stationary installation)
- Special tool
- 🚦 Quick guide

Depending on version:

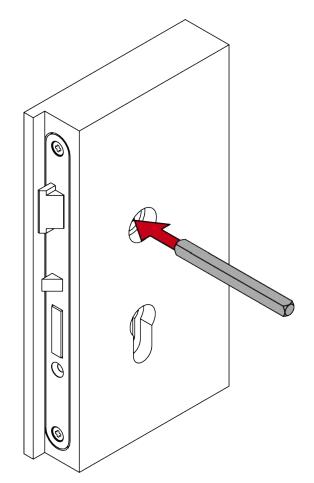
- Adapter set, 7 mm spindle
- Adapter sleeve, 8.5 mm spindle
- Adapter sleeve, 10 mm spindle
- Blank cylinder

7.2.3 Design

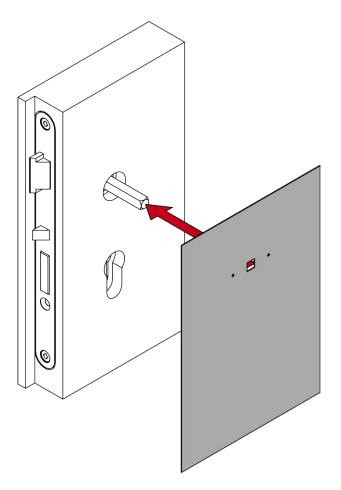


7.2.4 Prepare door (drilling template)

- \checkmark Pin or scriber at hand.
- ✓ Drilling template available (see Drilling template for variant AO (Upright installation) [▶ 293]).
- ✓ Drill at hand.
- Suitable drill bit at hand (depending on mortise lock hole diameter: 8.5 mm/9.5 mm/10.5 mm).
- ✓ PH2 screwdriver at hand.
- 1. Insert the spindle into the mortise lock.

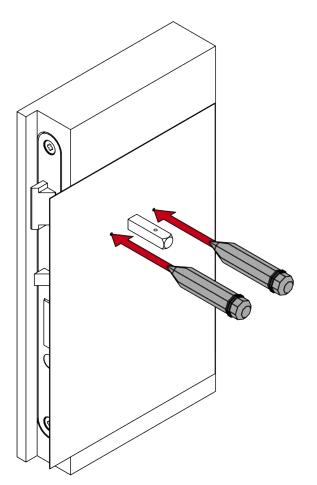


2. Place the drilling template on the spindle.

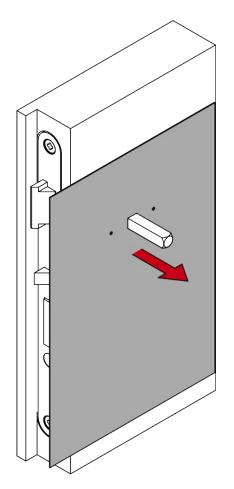


3. Align the drill template vertically using the printed scale.

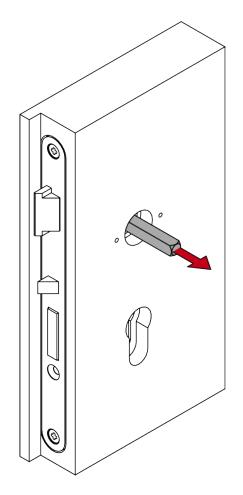
4. Mark the points to be drilled on the door.



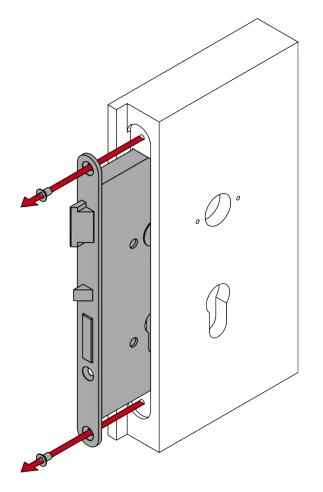
5. Remove the drilling template.



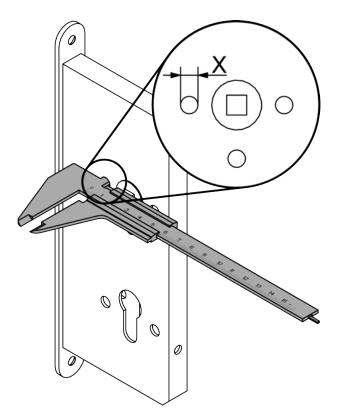
6. Remove the spindle.



7. Remove the mortise lock (PH2).



8. Measure the diameter of the fastening holes.



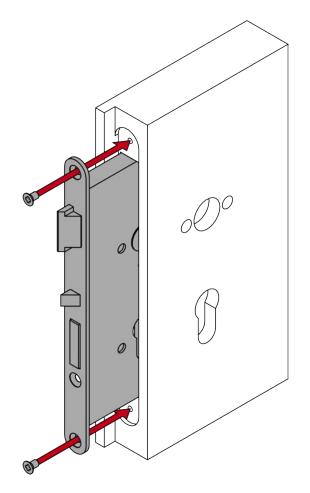
Ø fastening holes	Drill bits required
5.5 mm–6.3 mm	8.5 mm
6.4 mm–7.3 mm	8.5 mm
7.4 mm–8.7 mm	9.5 mm
≥ 8.8 mm	10.5 mm

9. Determine the required drill bit based on the measured diameter.

- 10. Drill the required holes.

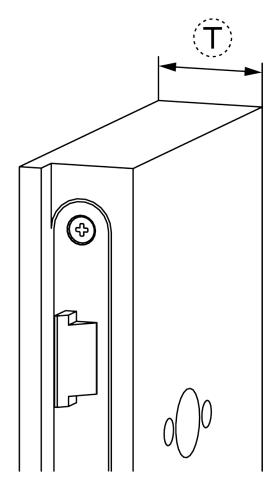
7. Installation 32 / 302

11. Fit the mortise lock (PH2).

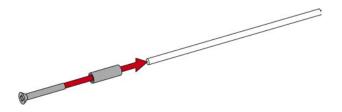


7.2.5 For door thickness X: prepare threaded rods and spindle

- ✓ Saw at hand.
- ✓ Vernier calliper at hand.
- ✓ PH2 screwdriver at hand.
- 1. For X: measure the door thickness.

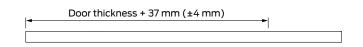


2. For X: fasten the screws, threaded sleeves and threaded rods together.

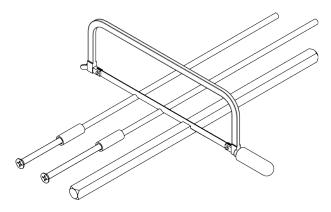


3. For X: mark the sawing points on the threaded rods and spindle.

2× L1: door thickness - 8 mm (±3 mm)	
2× L2: door thickness + 8 mm (±3 mm)	
	_

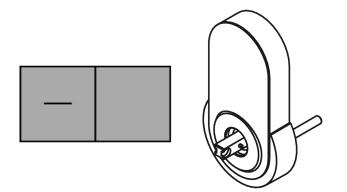


4. For X: use a suitable saw to cut the threaded rods and spindle.

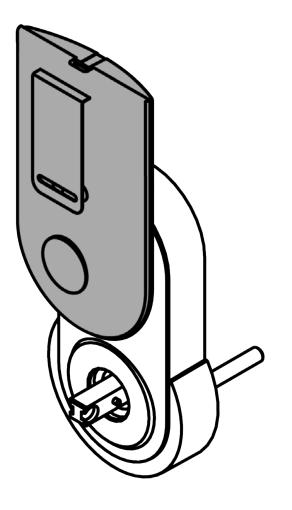


7.2.6 Programming the fitting

Programme the fitting before installation. You can use different programming devices, depending on the product family.

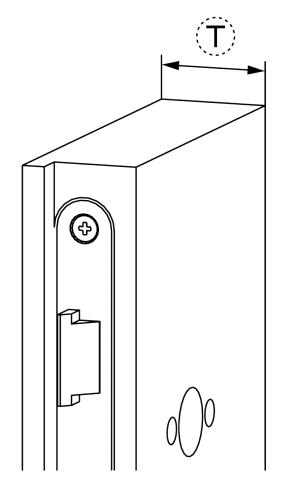


7. Installation 35 / 302

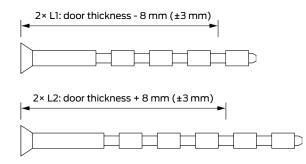


7.2.7 Installing the fitting

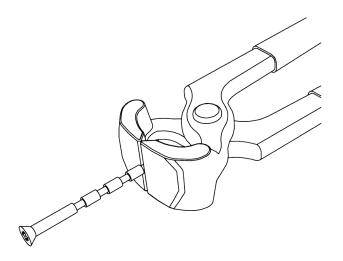
- ✓ Door pre-drilled.
- ✓ PH2 screwdriver at hand.
- ✓ TX15 screwdriver at hand.
- ✓ Vernier calliper at hand.
- ✓ Pincers at hand.
- 1. For S, M and L: measure the door thickness.



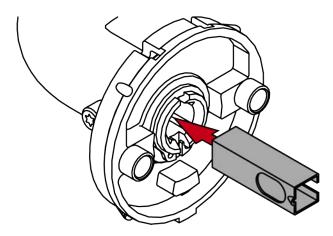
2. For S, M and L: determine the separation points on the cut-to-length screws L1 and L2.



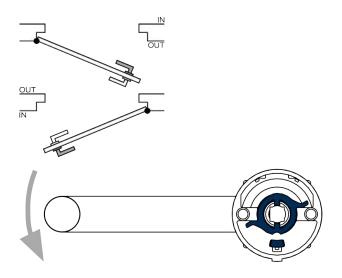
3. For S, M and L: trim the cut-to-length screws L1 and L2.

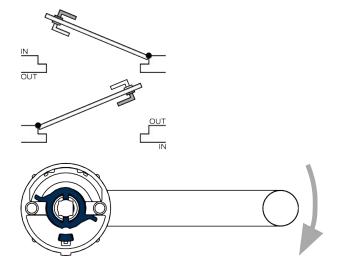


4. For 7 mm spindle: place the adapter sleeve in the inner handle in such a way that the recess faces the grub screw.

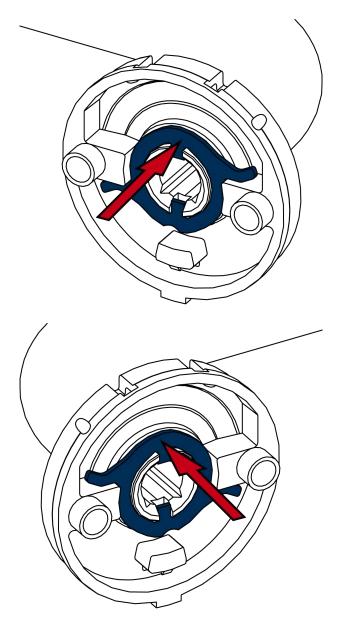


 Determine your inner handle's direction rotation as viewed from the inside: clockwise (clockwise = CW) or anti-clockwise (counter-clockwise = CCW).

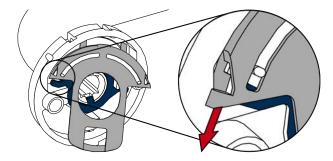




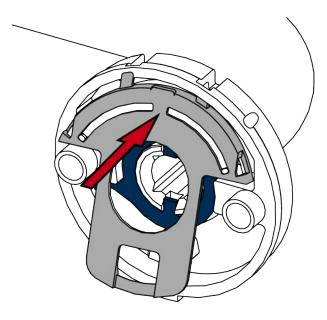
6. Insert the interchangeable plate into the inner handle as required.



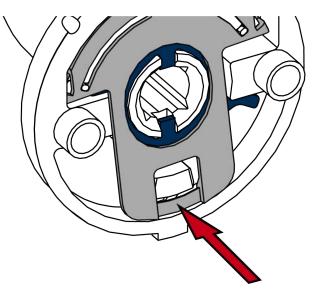
7. Press the spring plate on one side against the interchangeable plate so that the spring is compressed.



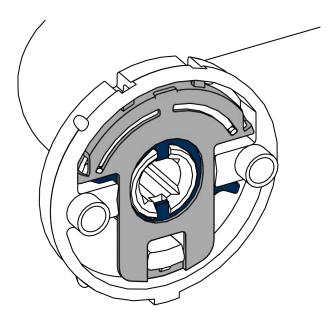
8. At the same time, hook the spring plate tabs into the slot in the inner handle.



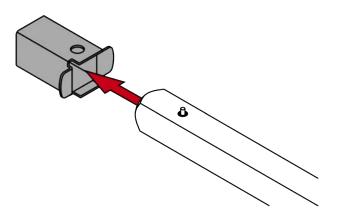
9. Press down the spring plate bracket.



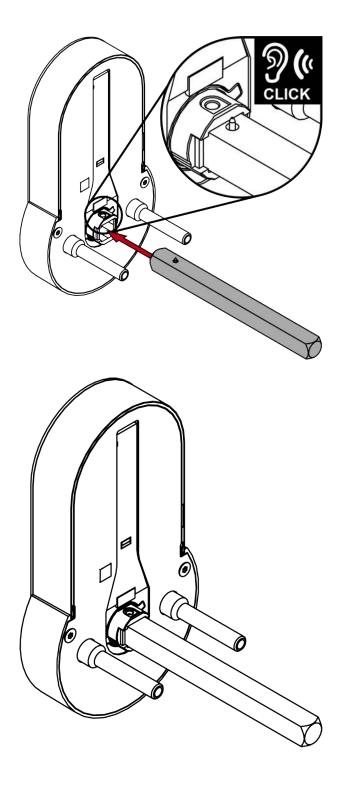
 \mapsto The inner handle is now ready.



10. For 7 mm spindle: insert the adapter sleeve onto the side of the spindle with the pin.

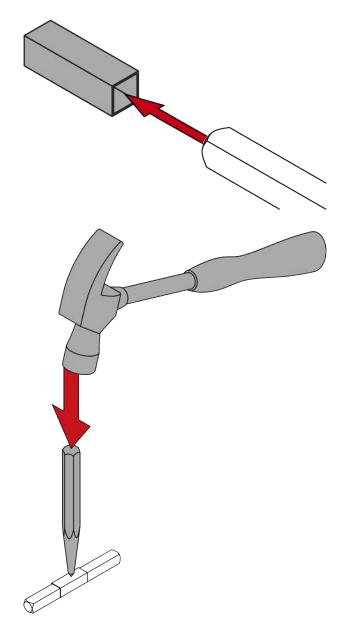


- 11. Insert the spindle with the pin side into the fitting.
 - \vdash Pin will snap into position in the mount.

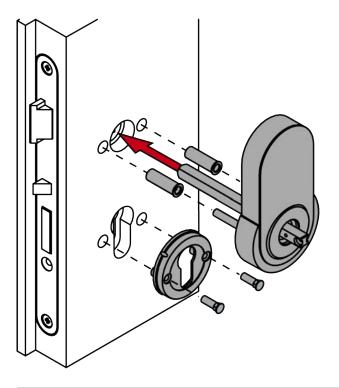


7. Installation 42 / 302

12. For 8.5 mm and 10 mm spindle: slide the adapter sleeve into the centre of the spindle. Use a punch and hammer to make an indent in the adapter sleeve to prevent it from slipping.



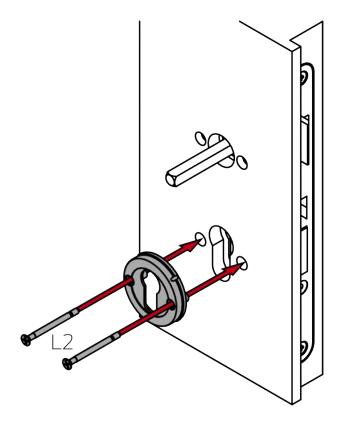
13. Insert the fitting with the spindle into the door. Use adapter sleeves if necessary.



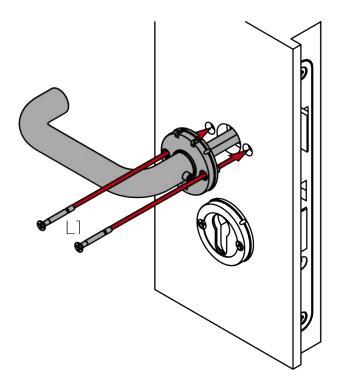
Ø mortise lock fastening hole	Adapter sleeves
5.5 mm-6.3 mm	No adapter sleeves
6.4 mm–7.3 mm	6.4 mm
7.4 mm–8.7 mm	7.4 mm
≥ 8.8 mm	8.8 mm

14. Insert the escutcheon base into the door with the sleeve nuts.

15. Fasten both escutcheon bases together with the L2 screws (PH2, torque 1.1 Nm).



16. Fasten the inner handle firmly with the L1 screws (PH2, torque 1.1 Nm).





17. Fasten the set screw on the inner handle firmly (TX15, torque 5.0 Nm).

18. For FH: insert the dummy cylinder.

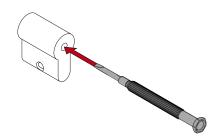


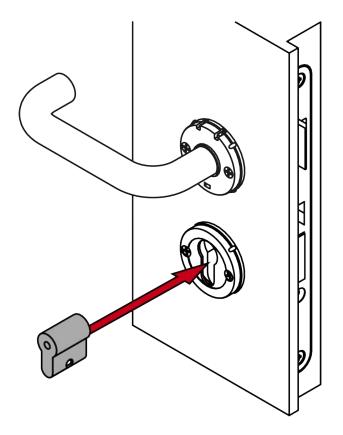
NOTE

Feed the blank cylinder into the hole using a screwdriver

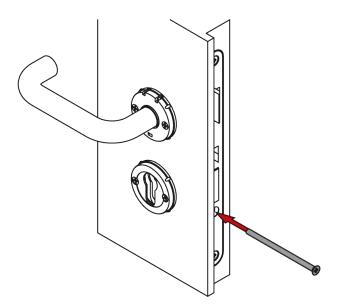
It is difficult to position the blank cylinder correctly, especially in thick doors.

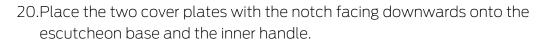
- 1. Insert a screwdriver into the hole in the blank cylinder.
- 2. Position the blank cylinder using the screwdriver.

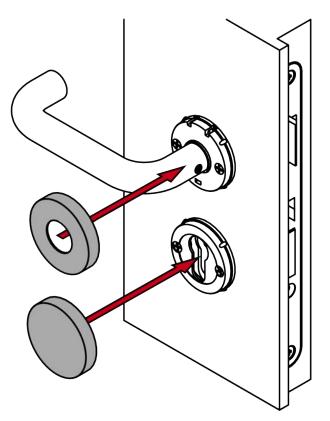




19. For FH: screw the dummy cylinder firmly into place (PH2, torque 1.1 Nm).

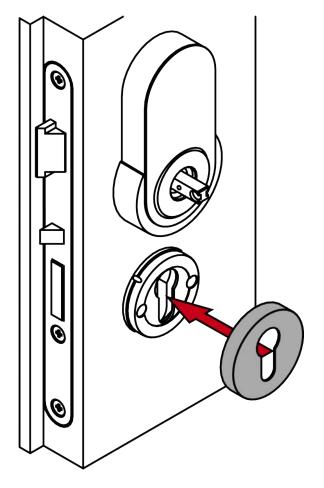




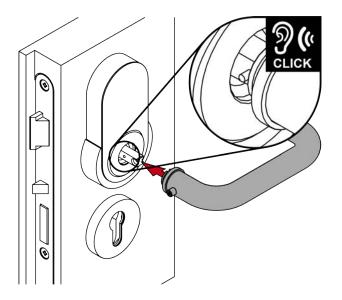


7. Installation 48 / 302

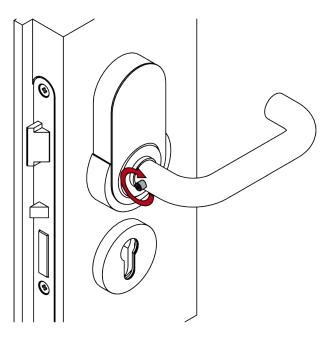
21. On the outside, place the cover with the notch facing downwards onto the escutcheon base.



22. Fit the outside handle into position on the fitting.



23. Firmly fasten the grub screw on the outside handle (TX15; torque: 5.0 Nm).



→ Fitting is now installed.

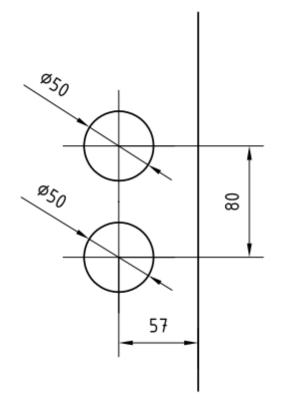
7.3 Variant A1 and A2 (Downward installation)

7.3.1 Glass door fitting

You can also use the A1 version of SI.SmartHandle AX with an optionally available lock case on glass doors.



SimonsVoss glass door escutcheons require the glass door to have the following mounting holes (dimensions in mm):



7.3.2 Product-specific safety instructions

IMPORTANT

Damage by drilling

You drill at your own risk. SimonsVoss Technologies GmbH is not liable for damage caused by drilling.

Please also observe the safety instructions of the drilling machine.

Damage caused by unsuitable tools

If you try to open the case with unsuitable tools, the case may be damaged.

Use only the supplied SimonsVoss opening tool.

Loss of the precise guidance of the handle

It may be difficult to install on mortise locks with a retaining nut.

Do not mechanically alter the locking nut. The handle would then lose its precise guidance.

Difficult installation due to inaccurate holes

The fitting cannot be installed if the fastening holes and the spindle do not match.

Make sure that the fastening holes and the spindle are in parallel vertical lines.



NOTE

Incorrect installation

SimonsVoss Technologies GmbH accepts no liability for damage caused to doors or components due to incorrect fitting or installation.

Effect on the mortise lock

The SI.SmartHandle AX acts exclusively on the latch of the mortise lock.

Locking and insurances

Insurance companies place increased demands on a closure.

- 1. If you want to lock the door under insurance law, use a self-locking panic lock or a locking cylinder in addition to the SI.SmartHandle AX.
- 2. Pay attention to the approvals according to EN 179.

SI.SmartHandle AX with self-locking panic lock

The SI.SmartHandle AX only offers full functionality with a self-locking panic lock.

- 1. Combine the SI.SmartHandle AX with a self-locking panic lock.
- 2. Pay attention to the declarations of conformity of the lock manufacturers according to EN 179.

Conditions for authorisation security

Operation with Mifare Classic and/or PinCode keypad excludes authorisation security class D according to DIN EN 16867:2020.

Sealing escutcheon holes

Any escutcheon holes that exist may be used to manipulate the lock.

- 1. Seal any escutcheon holes with a blind cylinder, for example.
- 2. In the case of FH versions, you must be install a brass dummy cylinder or locking cylinder.

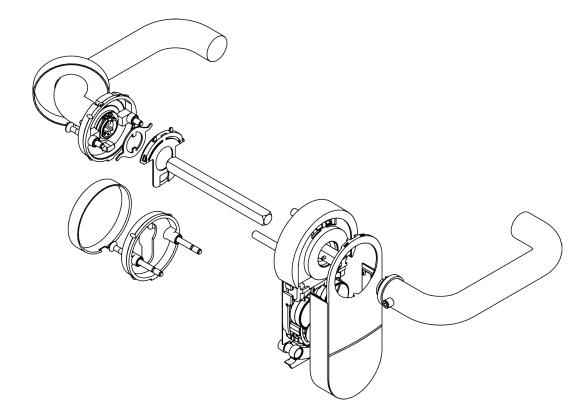
7.3.3 Scope of delivery

- SI.SmartHandle AX (suspended installation)
- Special tool
- 🚦 Quick guide

Depending on version:

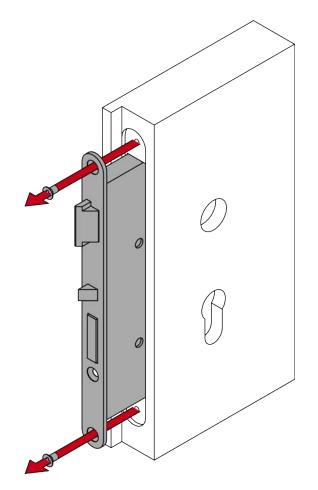
- Adapter set, 7 mm spindle
- Adapter sleeve, 8.5 mm spindle
- Adapter sleeve, 10 mm spindle
- Blank cylinder

7.3.4 Design

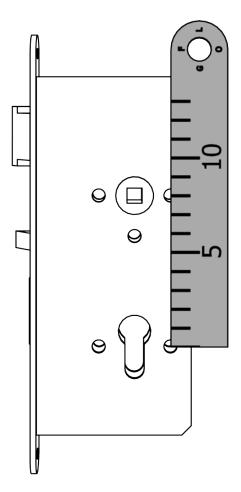


7.3.5 Prepare door (drilling template)

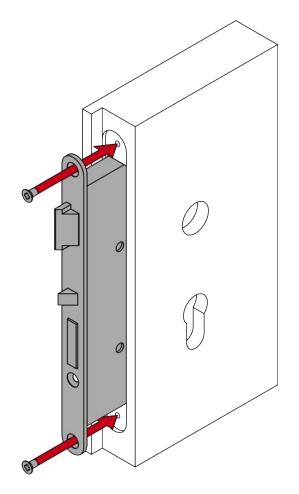
- ✓ Pin or scriber at hand.
- ✓ Drilling template available (see Drilling template for variant A1 and A2 (Downward mounting) [▶ 294]).
- ✓ Drill at hand.
- ✓ Suitable drill bit at hand (∅ 8.5 mm).
- ✓ PH2 screwdriver at hand.
- 1. Remove the mortise lock (PH2).



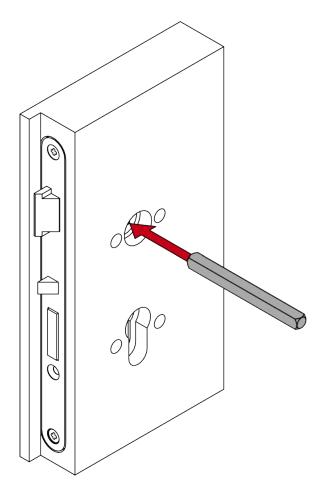
2. Measure the vertical distance between the centres of the fixing holes.



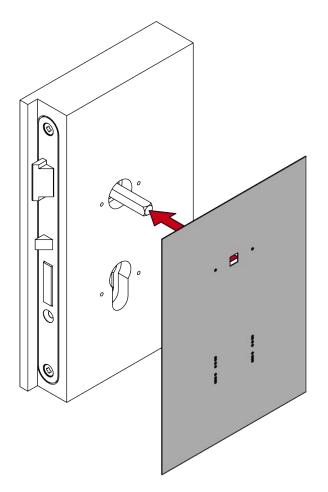
3. Fit the mortise lock (PH2).



4. Insert the spindle into the mortise lock.

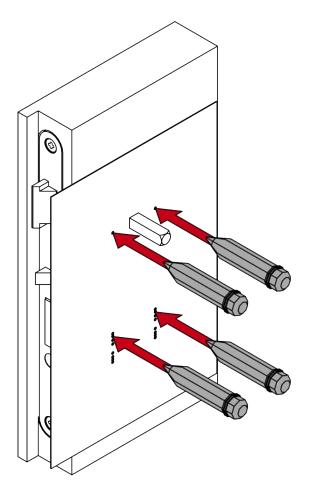


5. Place the drilling template on the spindle.

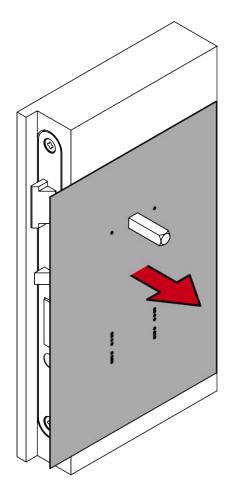


- 6. Align the drill template vertically using the printed scale.
- 7. Use the distance you measured previously to determine where the points need to be drilled.

8. Mark the points to be drilled on the door.

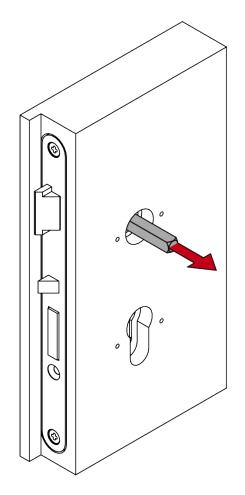


9. Remove the drilling template.

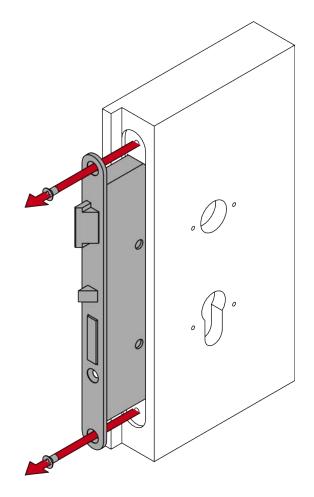


7. Installation 60 / 302

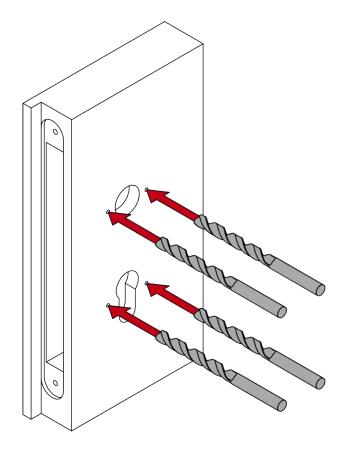
10. Remove the spindle.



11. Remove the mortise lock (PH2).

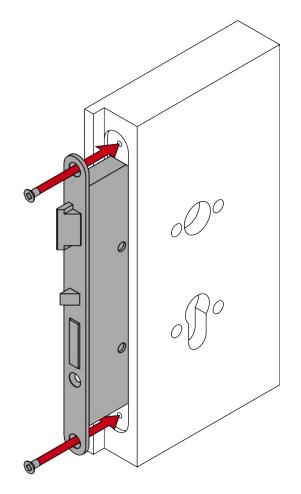


12. Drill the required holes.



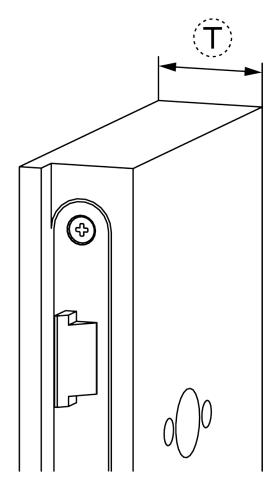
7. Installation 63 / 302

13. Fit the mortise lock (PH2).

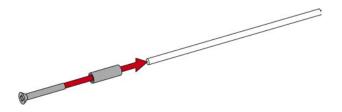


7.3.6 For door thickness X: prepare threaded rods and spindle

- ✓ Saw at hand.
- ✓ Vernier calliper at hand.
- ✓ PH2 screwdriver at hand.
- 1. For X: measure the door thickness.

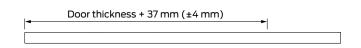


2. For X: fasten the screws, threaded sleeves and threaded rods together.

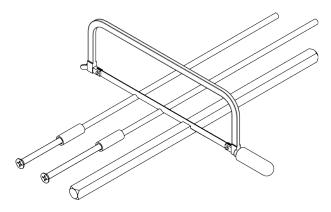


3. For X: mark the sawing points on the threaded rods and spindle.

2× L1: door thickness - 8 mm (±3 mm)	
2× L2: door thickness + 8 mm (±3 mm)	
	_

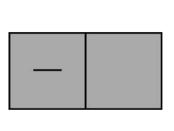


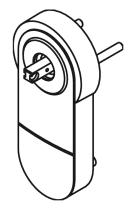
4. For X: use a suitable saw to cut the threaded rods and spindle.



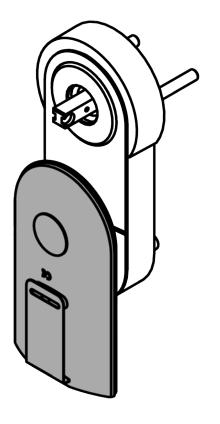
7.3.7 Programming the fitting

Programme the fitting before installation. You can use different programming devices, depending on the product family.



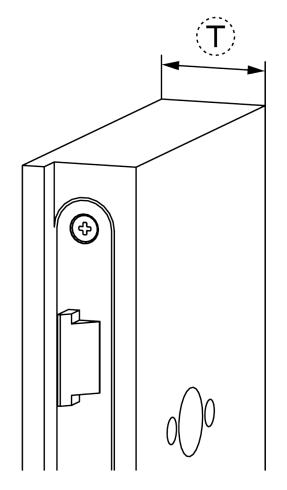


7. Installation 66 / 302

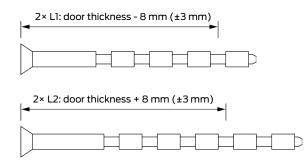


7.3.8 Installing the fitting

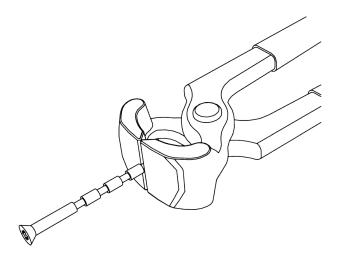
- ✓ Door pre-drilled.
- ✓ PH2 screwdriver at hand.
- ✓ TX15 screwdriver at hand.
- ✓ Vernier calliper at hand.
- ✓ Pincers at hand.
- 1. For S, M and L: measure the door thickness.



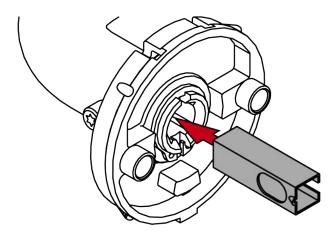
2. For S, M and L: determine the separation points on the cut-to-length screws L1 and L2.



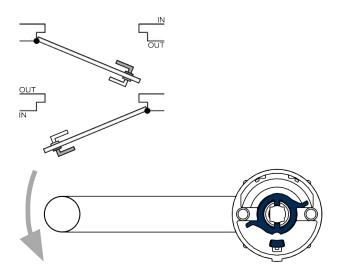
3. For S, M and L: trim the cut-to-length screws L1 and L2.

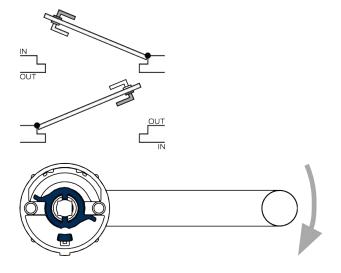


4. For 7 mm spindle: place the adapter sleeve in the inner handle in such a way that the recess faces the grub screw.

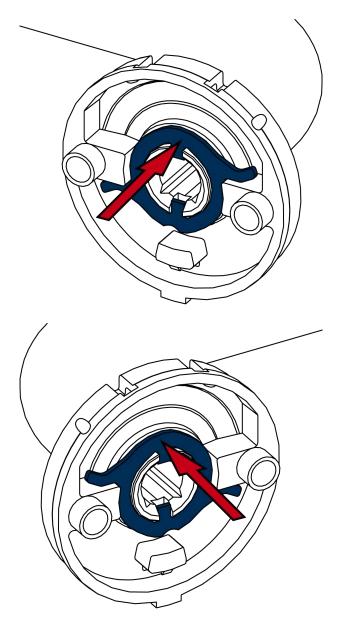


 Determine your inner handle's direction rotation as viewed from the inside: clockwise (clockwise = CW) or anti-clockwise (counter-clockwise = CCW).

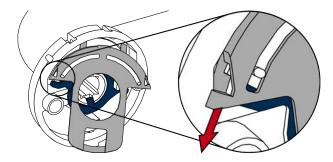




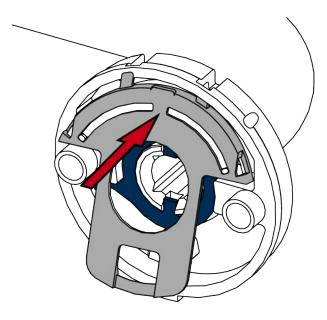
6. Insert the interchangeable plate into the inner handle as required.



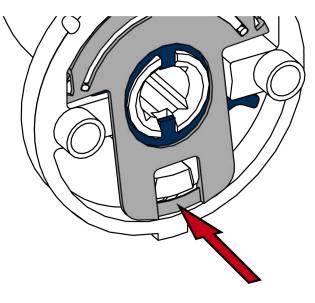
7. Press the spring plate on one side against the interchangeable plate so that the spring is compressed.



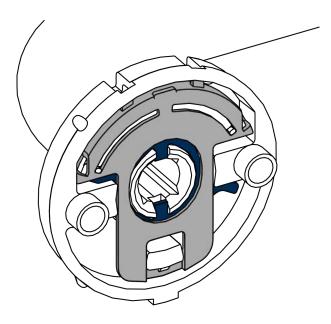
8. At the same time, hook the spring plate tabs into the slot in the inner handle.



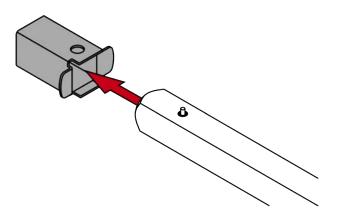
9. Press down the spring plate bracket.



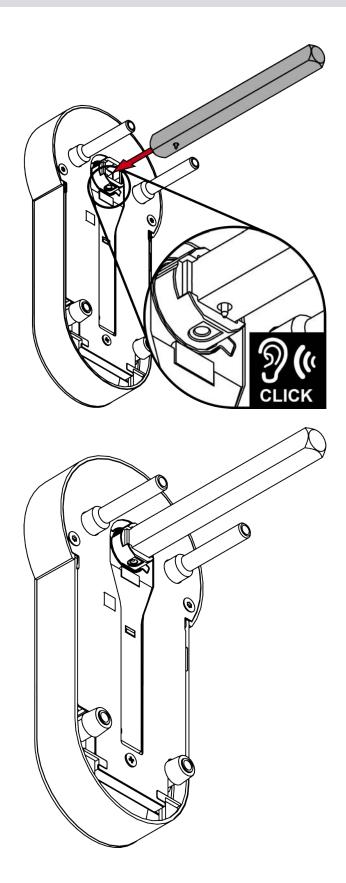
 \mapsto The inner handle is now ready.



10. For 7 mm spindle: insert the adapter sleeve onto the side of the spindle with the pin.

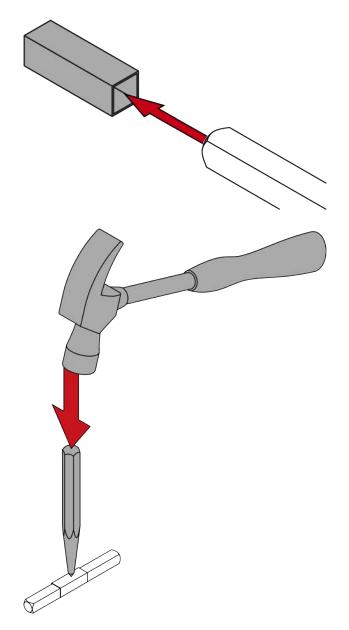


- 11. Insert the spindle with the pin side into the fitting.
 - \vdash Pin will snap into position in the mount.

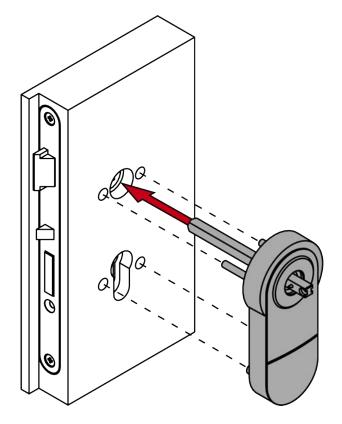


7. Installation 73 / 302

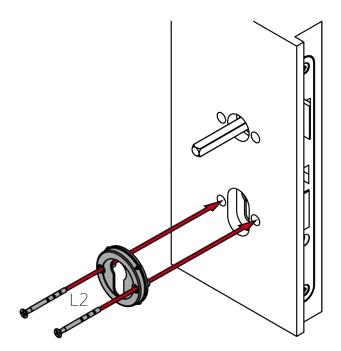
12. For 8.5 mm and 10 mm spindle: slide the adapter sleeve into the centre of the spindle. Use a punch and hammer to make an indent in the adapter sleeve to prevent it from slipping.

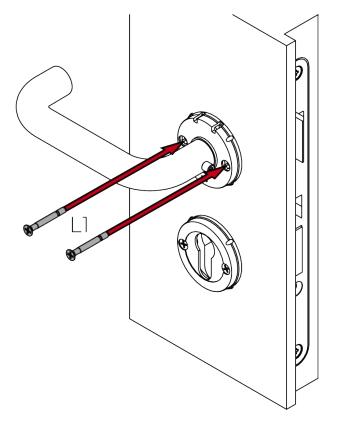


13. Insert the fitting with the spindle into the door.



14. Fasten the escutcheon base to the locking cylinder hole with the L2 screws (PH2, torque: 1.1 Nm).





15. Fasten the inner handle firmly with the L1 screws (PH2, torque 1.1 Nm).

16. For FH: insert the dummy cylinder.

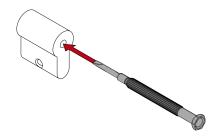


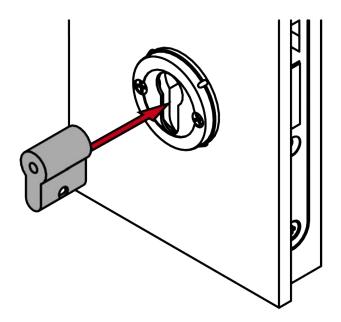
NOTE

Feed the blank cylinder into the hole using a screwdriver

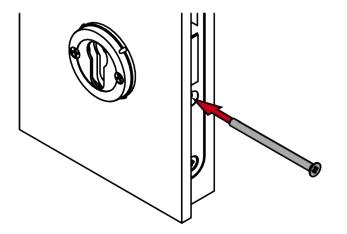
It is difficult to position the blank cylinder correctly, especially in thick doors.

- 1. Insert a screwdriver into the hole in the blank cylinder.
- 2. Position the blank cylinder using the screwdriver.





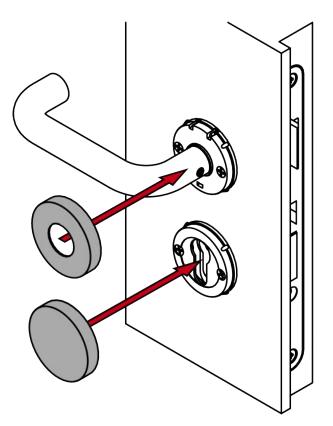
17. For FH: screw the dummy cylinder firmly into place (PH2, torque 1.1 Nm).



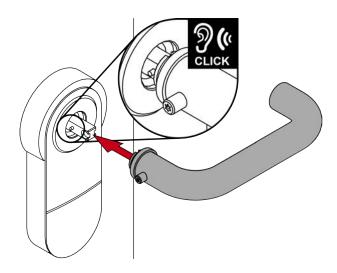


18. Fasten the set screw on the inner handle firmly (TX15, torque 5.0 Nm).

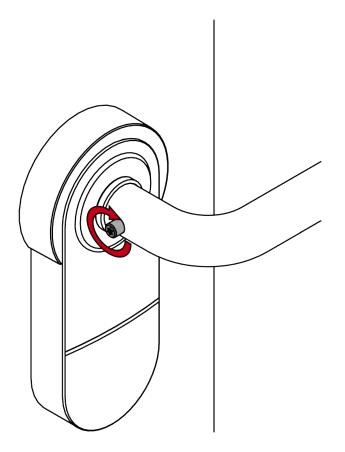
19. Place the two cover plates with the notch facing downwards onto the escutcheon base and the inner handle.



20.Fit the outside handle into position on the fitting.



21. Firmly fasten the grub screw on the outside handle (TX15; torque: 5.0 Nm).



 \vdash Fitting is now installed.

7.4 Variant A1.PAS24 (Downward installation with PAS24)

7.4.1 Product-specific safety instructions

IMPORTANT

Damage by drilling

You drill at your own risk. SimonsVoss Technologies GmbH is not liable for damage caused by drilling.

Please also observe the safety instructions of the drilling machine.

Damage caused by unsuitable tools

If you try to open the case with unsuitable tools, the case may be damaged.

Use only the supplied SimonsVoss opening tool.

Loss of the precise guidance of the handle

It may be difficult to install on mortise locks with a retaining nut.

Do not mechanically alter the locking nut. The handle would then lose its precise guidance.

Difficult installation due to inaccurate holes

The fitting cannot be installed if the fastening holes and the spindle do not match.

Make sure that the fastening holes and the spindle are in parallel vertical lines.



NOTE

Incorrect installation

SimonsVoss Technologies GmbH accepts no liability for damage caused to doors or components due to incorrect fitting or installation.

Effect on the mortise lock

The SI.SmartHandle AX acts exclusively on the latch of the mortise lock.

Locking and insurances

Insurance companies place increased demands on a closure.

- 1. If you want to lock the door under insurance law, use a self-locking panic lock or a locking cylinder in addition to the SI.SmartHandle AX.
- 2. Pay attention to the approvals according to EN 179.

SI.SmartHandle AX with self-locking panic lock

The SI.SmartHandle AX only offers full functionality with a self-locking panic lock.

- 1. Combine the SI.SmartHandle AX with a self-locking panic lock.
- Pay attention to the declarations of conformity of the lock manufacturers according to EN 179.

Conditions for authorisation security

Operation with Mifare Classic and/or PinCode keypad excludes authorisation security class D according to DIN EN 16867:2020.

Sealing escutcheon holes

Any escutcheon holes that exist may be used to manipulate the lock.

- 1. Seal any escutcheon holes with a blind cylinder, for example.
- 2. In the case of FH versions, you must be install a brass dummy cylinder or locking cylinder.

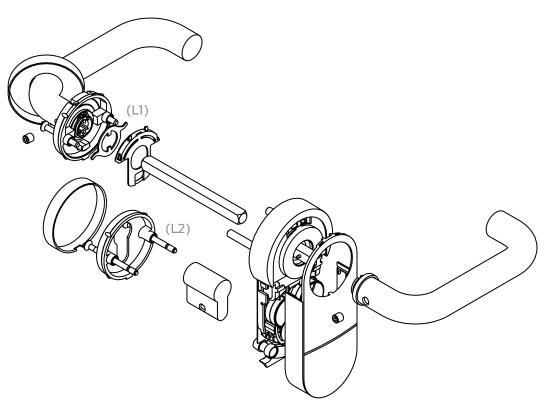
7.4.2 Scope of delivery

- SI.SmartHandle AX (suspended installation for PAS24)
- Special tool
- 🗜 Quick guide

Depending on version:

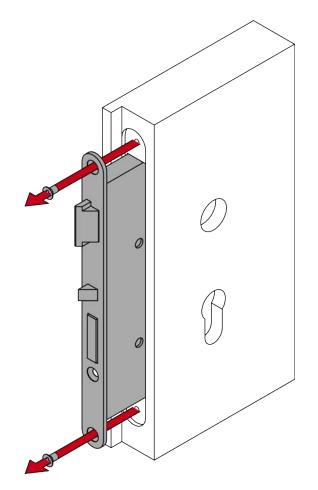
- Adapter set, 7 mm spindle
- Adapter sleeve, 8.5 mm spindle
- Adapter sleeve, 10 mm spindle
- Blank cylinder

7.4.3 Structure

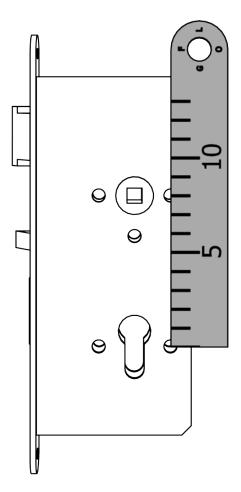


7.4.4 Prepare door (drilling template)

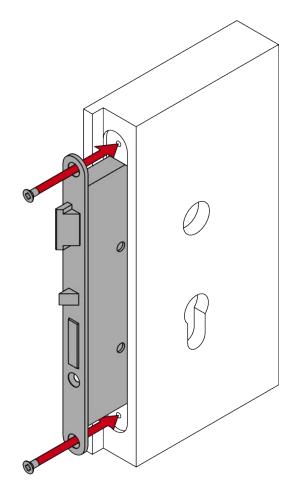
- \checkmark Pin or scriber at hand.
- ✓ Drilling template available (see Drilling template for variant A1 and A2 (Downward mounting) [▶ 294]).
- ✓ Drill at hand.
- ✓ Suitable drill bit at hand (∅ 8.5 mm).
- ✓ PH2 screwdriver at hand.
- 1. Remove the mortise lock (PH2).



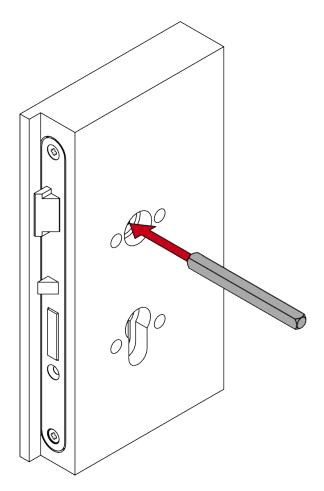
2. Measure the vertical distance between the centres of the fixing holes.



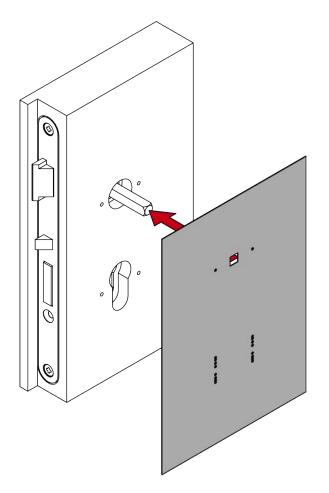
3. Fit the mortise lock (PH2).



4. Insert the spindle into the mortise lock.

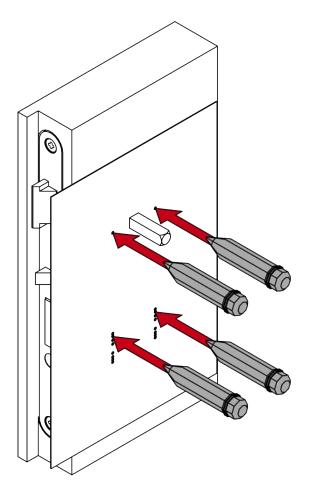


5. Place the drilling template on the spindle.

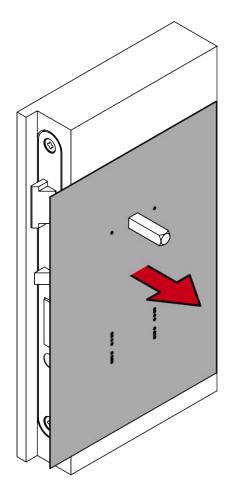


- 6. Align the drill template vertically using the printed scale.
- 7. Use the distance you measured previously to determine where the points need to be drilled.

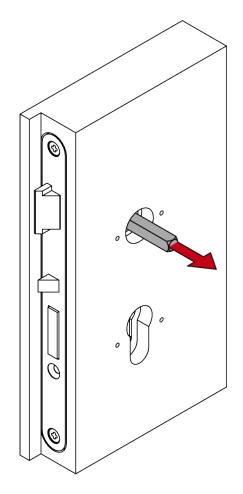
8. Mark the points to be drilled on the door.



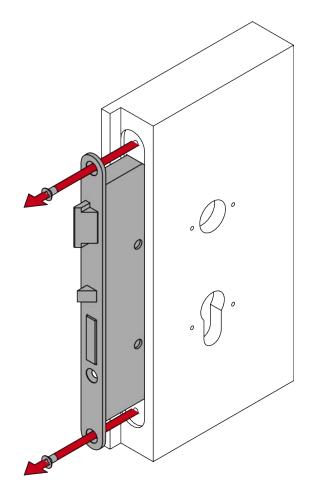
9. Remove the drilling template.



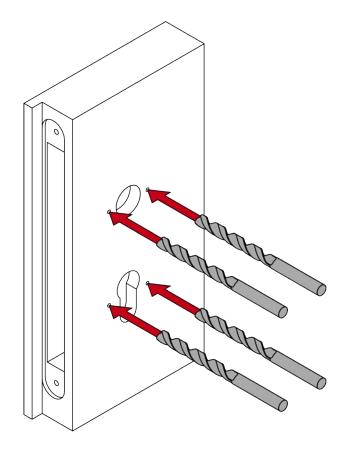
10. Remove the spindle.



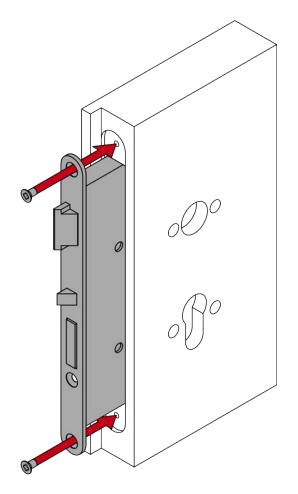
11. Remove the mortise lock (PH2).



12. Drill the required holes.

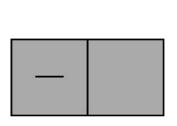


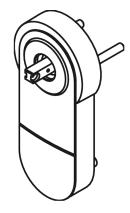
13. Fit the mortise lock (PH2).



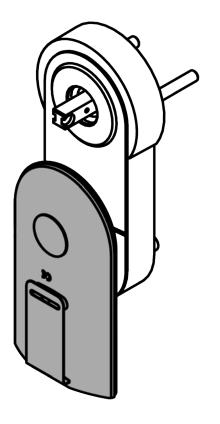
7.4.5 Programming the fitting

Programme the fitting before installation. You can use different programming devices, depending on the product family.



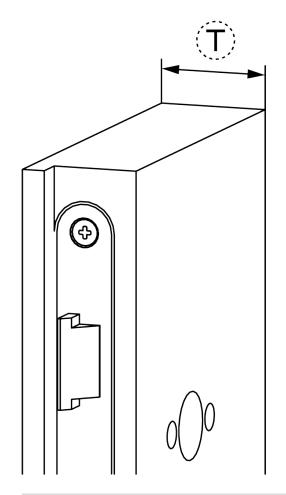


7. Installation 92 / 302



7.4.6 Installing the fitting

- ✓ Door pre-drilled.
- ✓ PH2 screwdriver at hand.
- ✓ TX15 screwdriver at hand.
- ✓ Vernier calliper at hand.
- ✓ Pincers at hand.
- 1. Measure the door thickness.



Size	Door thickness (mm)	Screws (M4)
S	38 – 50	33
S	49 – 60	43
Μ	59 – 70	53
Μ	69 – 80	63
L	79 – 90	73
L	89 – 100	83

2. Identify the L1 screws you need.

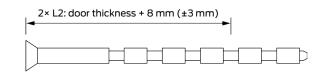
M4x33
M4x43
M4x53
M4x63
M4x73
M4x83



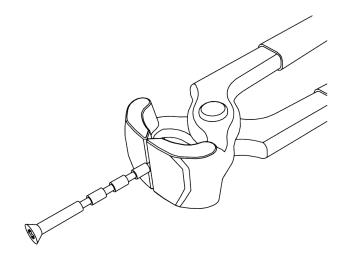
Strength class ≥ 8.8

The L1 screws for the SI.SmartHandle AX in its PAS24 version must have a strength class of at least 8.8.

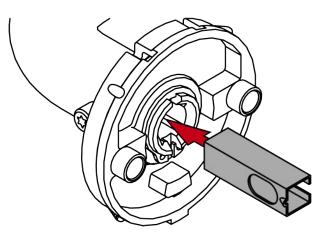
3. Identify the cutting points on the L2 cut-to-size screws.



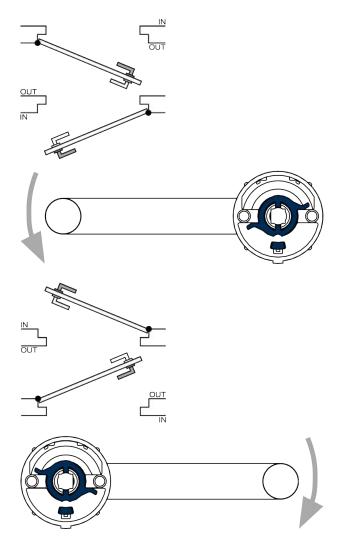
4. Cut the L2 cut-to-size screws.



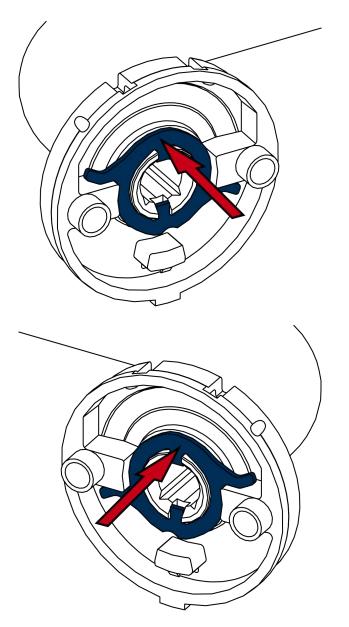
5. For 7 mm spindle: place the adapter sleeve in the inner handle in such a way that the recess faces the grub screw.



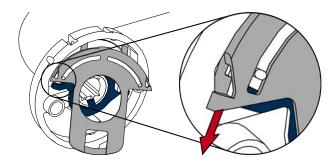
 Determine your inner handle's direction rotation as viewed from the inside: clockwise (clockwise = CW) or anti-clockwise (counter-clockwise = CCW).



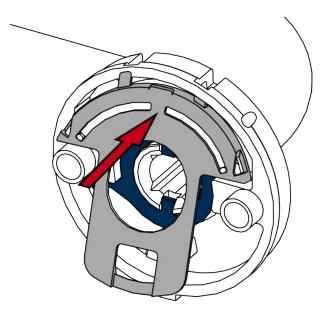
7. Insert the interchangeable plate into the inner handle as required.



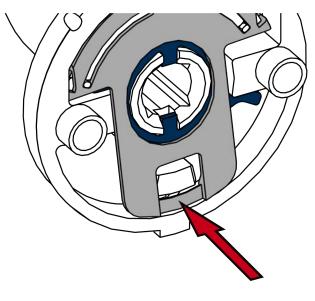
8. Press the spring plate on one side against the interchangeable plate so that the spring is compressed.



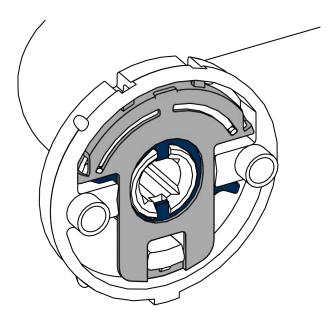
9. At the same time, hook the spring plate tabs into the slot in the inner handle.



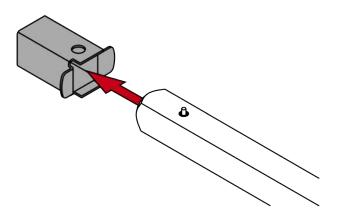
10. Press down the spring plate bracket.



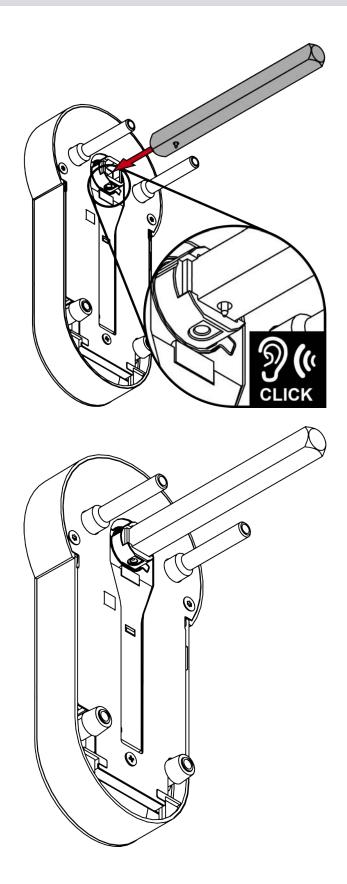
 \mapsto The inner handle is now ready.



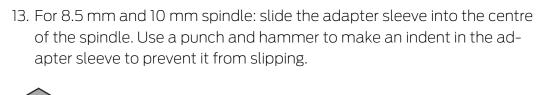
11. For 7 mm spindle: insert the adapter sleeve onto the side of the spindle with the pin.

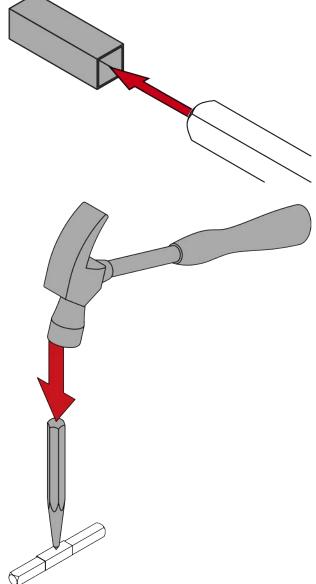


- 12. Insert the spindle with the pin side into the fitting.
 - \vdash Pin will snap into position in the mount.

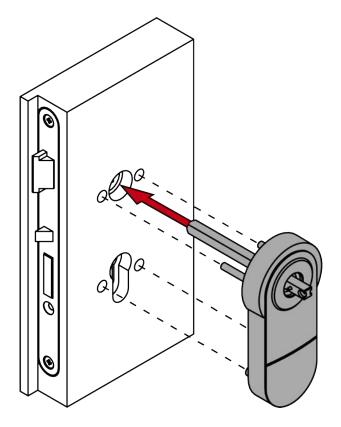


7. Installation 100 / 302

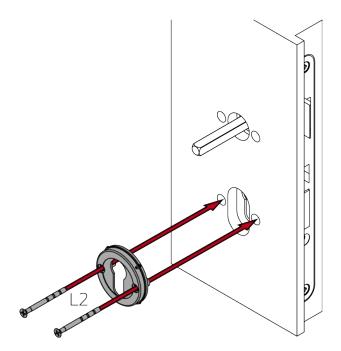


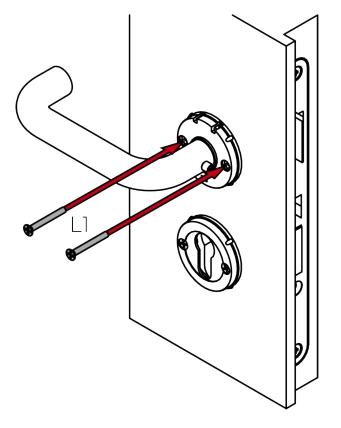


14. Insert the fitting with the spindle into the door.



15. Fasten the escutcheon base to the locking cylinder hole with the L2 screws (PH2, torque: 1.1 Nm).





16. Fasten the inner handle firmly with the L1 screws (PH2, torque 1.1 Nm).

17. For FH: insert the dummy cylinder.

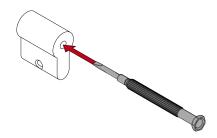


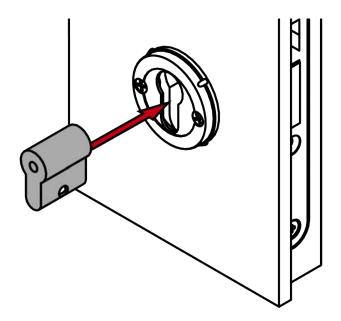
NOTE

Feed the blank cylinder into the hole using a screwdriver

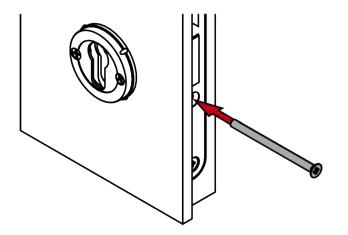
It is difficult to position the blank cylinder correctly, especially in thick doors.

- 1. Insert a screwdriver into the hole in the blank cylinder.
- 2. Position the blank cylinder using the screwdriver.





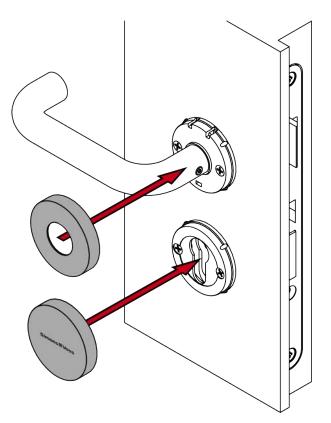
18. For FH: screw the dummy cylinder firmly into place (PH2, torque 1.1 Nm).



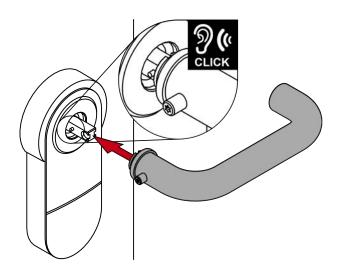


19. Fasten the set screw on the inner handle firmly (TX15, torque 5.0 Nm).

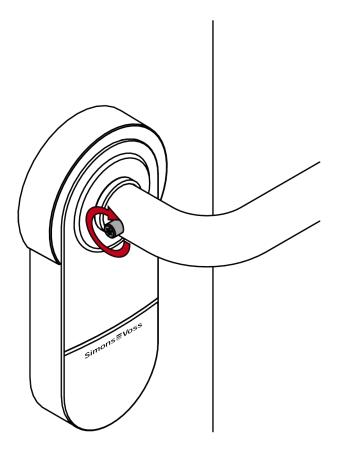
20.Place the two cover plates with the notch facing downwards onto the escutcheon base and the inner handle.



21. Fit the outside handle into position on the fitting.



22. Firmly fasten the grub screw on the outside handle (TX15; torque: 5.0 Nm).



 \vdash Fitting is now installed.

7.5 Variant A3 (Tubular frame)

7.5.1 Product-specific safety instructions

IMPORTANT

Damage by drilling

You drill at your own risk. SimonsVoss Technologies GmbH is not liable for damage caused by drilling.

Please also observe the safety instructions of the drilling machine.

Damage caused by unsuitable tools

If you try to open the case with unsuitable tools, the case may be damaged.

Use only the supplied SimonsVoss opening tool.

Loss of the precise guidance of the handle

It may be difficult to install on mortise locks with a retaining nut.

Do not mechanically alter the locking nut. The handle would then lose its precise guidance.

Difficult installation due to inaccurate holes

The fitting cannot be installed if the fastening holes and the spindle do not match.

W Make sure that the fastening holes and the spindle are in a vertical line.



NOTE

Incorrect installation

SimonsVoss Technologies GmbH accepts no liability for damage caused to doors or components due to incorrect fitting or installation.

Effect on the mortise lock

The SI.SmartHandle AX acts exclusively on the latch of the mortise lock.

Locking and insurances

Insurance companies place increased demands on a closure.

- 1. If you want to lock the door under insurance law, use a self-locking panic lock or a locking cylinder in addition to the SI.SmartHandle AX.
- 2. Pay attention to the approvals according to EN 179.

SI.SmartHandle AX with self-locking panic lock

The SI.SmartHandle AX only offers full functionality with a self-locking panic lock.

- 1. Combine the SI.SmartHandle AX with a self-locking panic lock.
- Pay attention to the declarations of conformity of the lock manufacturers according to EN 179.

7. Installation 107 / 302

Conditions for authorisation security

Operation with Mifare Classic and/or PinCode keypad excludes authorisation security class D according to DIN EN 16867:2020.

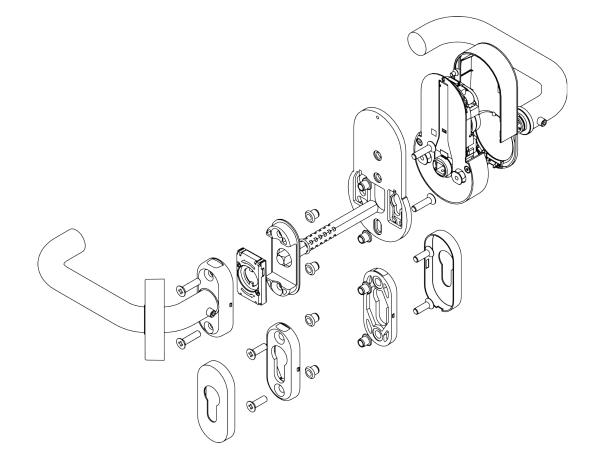
Sealing escutcheon holes

Any escutcheon holes that exist may be used to manipulate the lock.

- 1. Seal any escutcheon holes with a blind cylinder, for example.
- 2. In the case of FH versions, you must be install a brass dummy cylinder or locking cylinder.

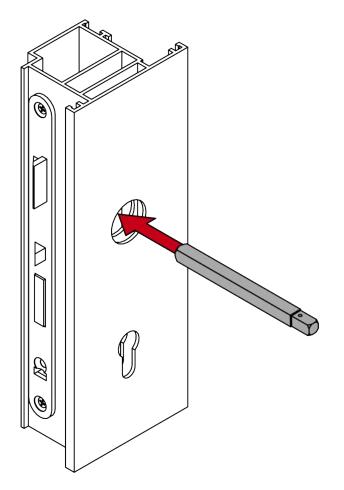
7.5.2 Scope of delivery

- SI.SmartHandle AX (metal frame version)
- Special tool
- 🗜 Quick guide
- For FH version:
- Blank cylinder
- 7.5.3 Design

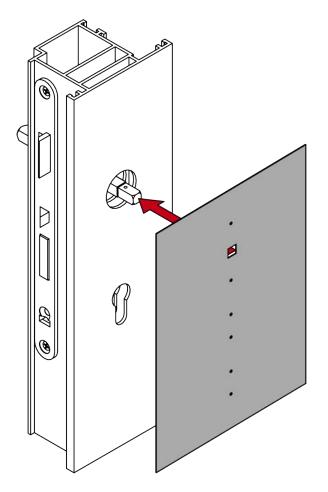


7.5.4 Prepare door (drilling template)

- ✓ PH2 screwdriver at hand.
- ✓ Drilling template available (see *Drilling template for variant A3 (Tubular frame)* [▶ 296]).
- ✓ Pin or scriber at hand.
- ✓ Drill at hand.
- ✓ Suitable drill bit at hand (∅ 7.2 mm).
- ✓ Countersink at hand.
- 1. Insert the spindle into the mortise lock.

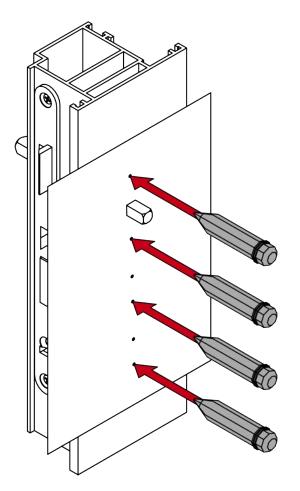


2. Place the drilling template on the spindle.

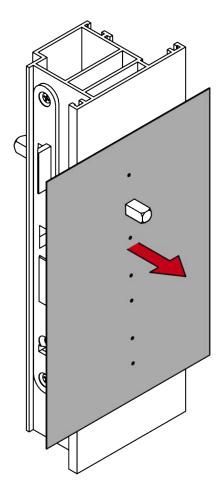


3. Align the drill template vertically using the printed scale.

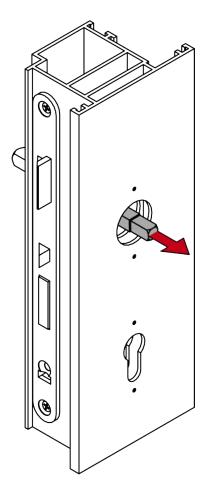
4. Mark the points to be drilled on the door.



5. Remove the drilling template.



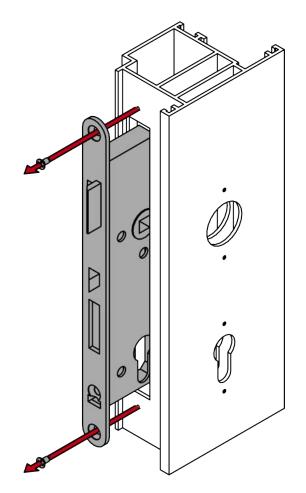
6. Remove the spindle.



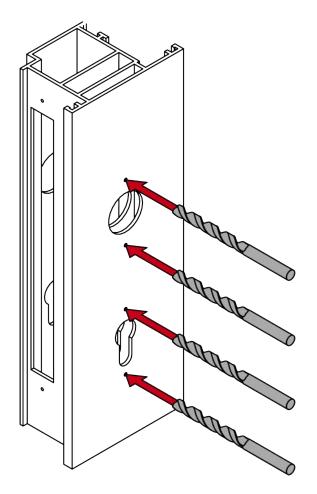
SmartIntego Digital SmartHandle AX (Manual)

7. Installation 113 / 302

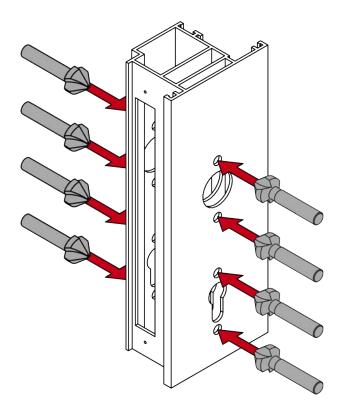
7. Remove the mortise lock (PH2).



8. Drill the required holes.

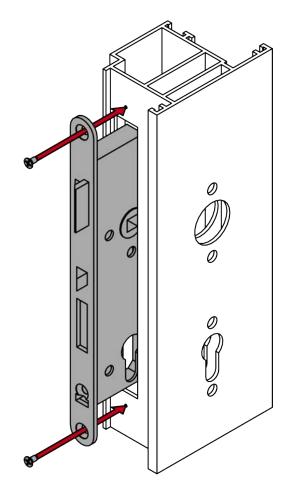


9. Countersink the holes with the countersink so that the blind rivet nuts can be pressed into a flush position later.



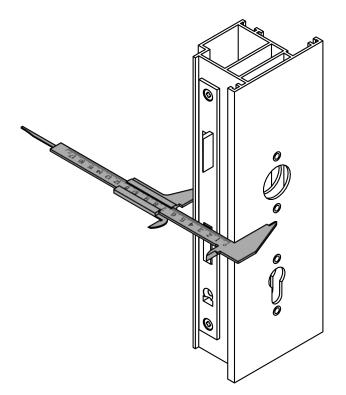
7. Installation 115 / 302

10. Fit the mortise lock (PH2).



7.5.5 For door thickness X: prepare spindle

- ✓ Saw at hand.
- ✓ Vernier calliper at hand.
- ✓ PH2 screwdriver at hand.
- 1. For X: measure the door thickness.



2. For X: mark the sawing point on the spindle.

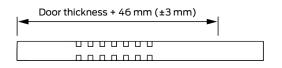


NOTE

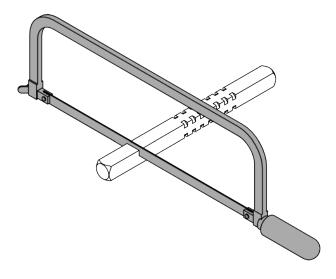
9 mm spindle with 8 mm end

The 9 mm spindle has an 8 mm end. This end is inserted into the electronic fitting.

Trim the 9 mm spindle, ensuring that the 8 mm end is not the cut part.

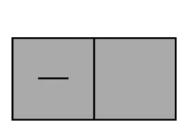


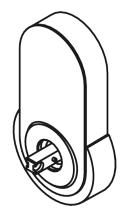
3. For X: trim the spindle with a suitable saw.



7.5.6 Programming the fitting

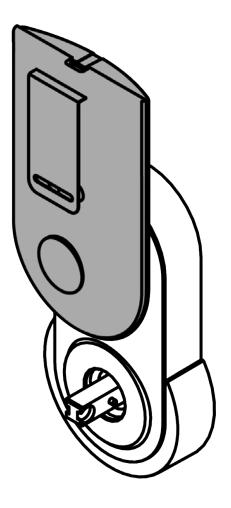
Programme the fitting before installation. You can use different programming devices, depending on the product family.





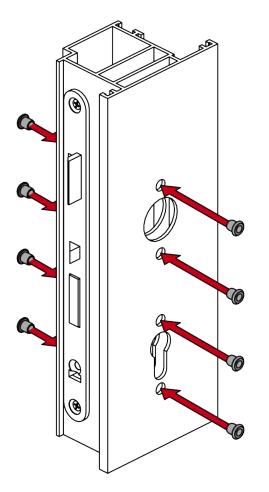
SmartIntego Digital SmartHandle AX (Manual)

7. Installation 118 / 302

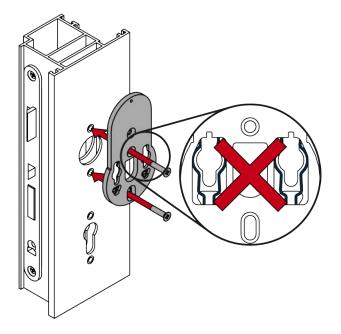


7.5.7 Installing the fitting

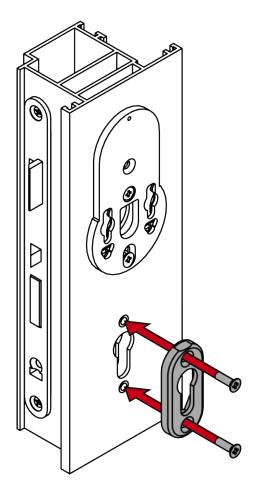
- ✓ Door pre-drilled.
- ✓ PH2 screwdriver at hand.
- ✓ TX15 screwdriver at hand.
- 1. Insert the supplied blind rivet nuts into the door frame.



2. Screw the mounting plate firmly into place on the outside so that the spring clips are facing the door (PH2, torque 1.1 Nm).

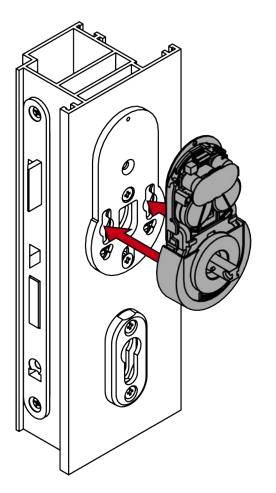


3. Screw the escutcheon base firmly to the outside (PH2, torque 1.1 Nm).



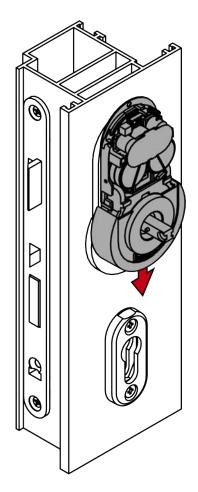
4. Screw the escutcheon base firmly into place on the inside (PH2, torque 1.1 Nm).

5. Insert the fitting into the mounts on the mounting plate.



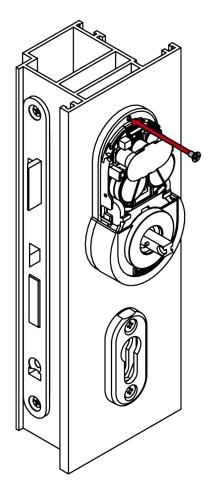
7. Installation 122 / 302

6. Push the fitting into the mounting plate until it locks into position.



7. Installation 123 / 302

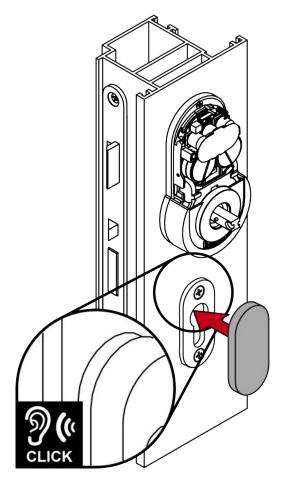
7. Screw the fitting firmly to the mounting plate (PH1, torque 0.8 Nm).



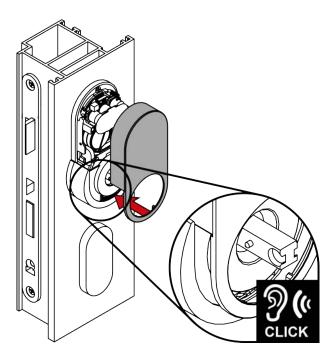
SmartIntego Digital SmartHandle AX (Manual)

7. Installation 124 / 302

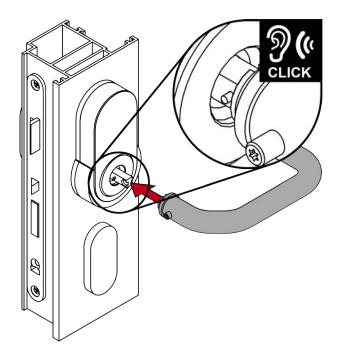
8. Place a cover with the notch facing downwards on the escutcheon base.



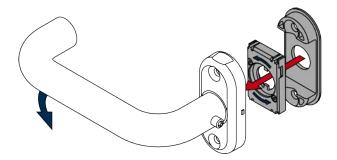
9. Place the cover on the fitting.



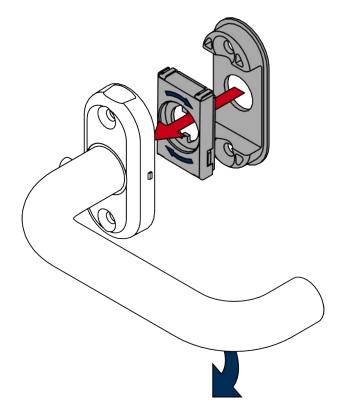
10. Fit the outside handle into position on the fitting.



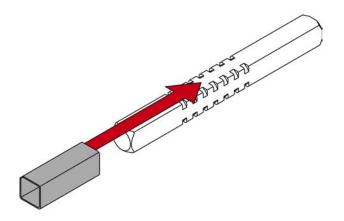
- 11. Determine the required direction of rotation for your inner handle.
- 12. Insert the spring element appropriately.
- 13. Place the underlay in the inner handle unit.

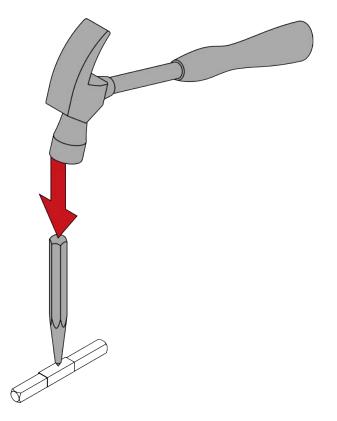


SmartIntego Digital SmartHandle AX (Manual)

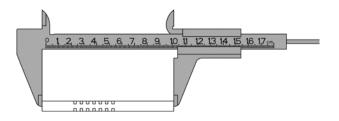


14. For 8.5 mm and 10 mm spindle: slide the adapter sleeve into the centre of the spindle. Use a punch and hammer to make an indent in the adapter sleeve to prevent it from slipping.

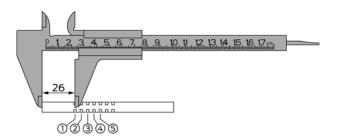




15. Measure the total length of the spindle.

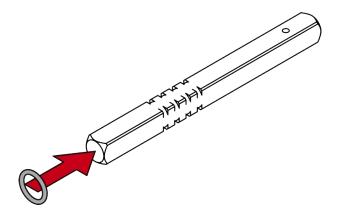


- 16. Locate the inside of the spindle (four-edge end up to the centre of the first groove = 26 mm).
- 17. Use the table to determine the position of the O-ring.

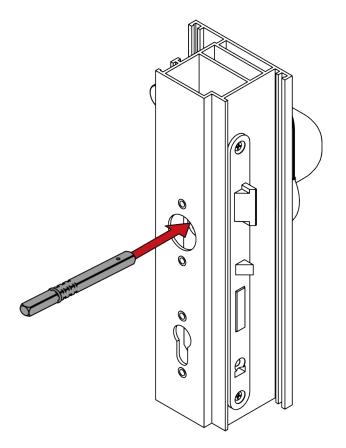


Area	Door thickness (mm)	Spindle length (mm)	Ring position
S	40 - 42	94	3
S	40 - 42	104	5
S	43 - 47	94	2
S	43 - 47	104	4
S	48 - 52	94	1
S	48 - 52	104	3
S	53 - 57	104	2
S	58 - 61	104	1
М	60 - 62	114	3
М	60 - 62	124	5
М	63 - 67	114	2
М	63 - 67	124	4
М	68 - 72	114	1
М	68 - 72	124	3
М	73 - 77	124	2
М	78 - 81	124	1
L	80 - 82	134	3
L	80 - 82	144	5
L	83 - 87	134	2
L	83 - 87	144	4
L	88 - 92	134	1
L	88 - 92	144	3
L	93 - 97	144	2
L	98 - 101	144	1
XL	100 - 184	O-ring is 30–35 mm from the cut end of the spindle.	

18. Slide the O-ring onto the calculated groove.



19. Insert the spindle into the door with the ring-free side as far as it will go.



20.For FH: insert the dummy cylinder.



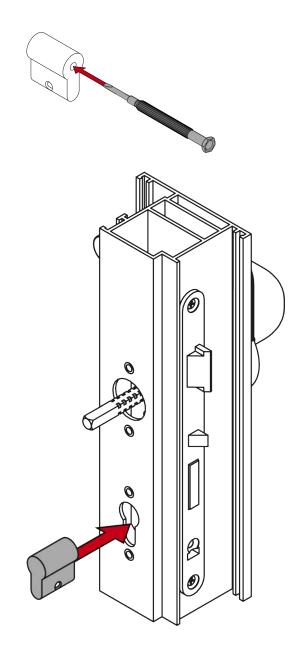
NOTE

Feed the blank cylinder into the hole using a screwdriver

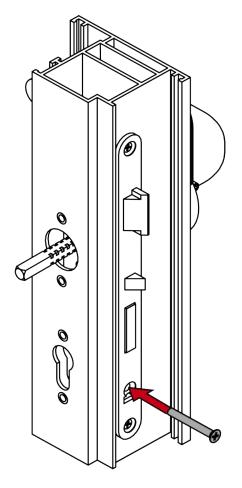
It is difficult to position the blank cylinder correctly, especially in thick doors.

- 1. Insert a screwdriver into the hole in the blank cylinder.
- 2. Position the blank cylinder using the screwdriver.

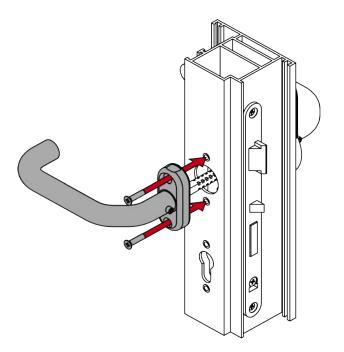
SmartIntego Digital SmartHandle AX (Manual)

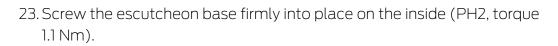


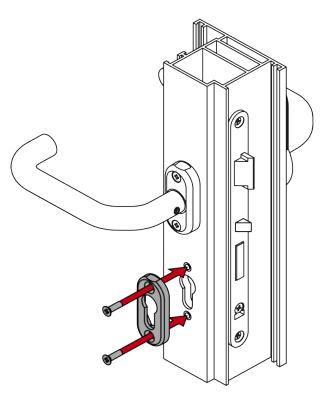
21. For FH: screw the dummy cylinder firmly into place (PH2, torque 1.1 Nm).



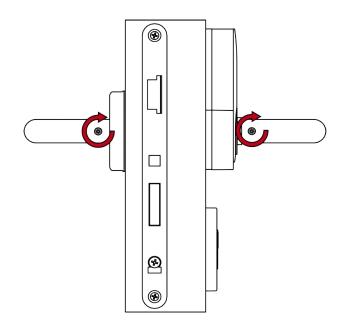
22. Screw the inner handle unit onto the spindle (PH2, torque 1.1 Nm).



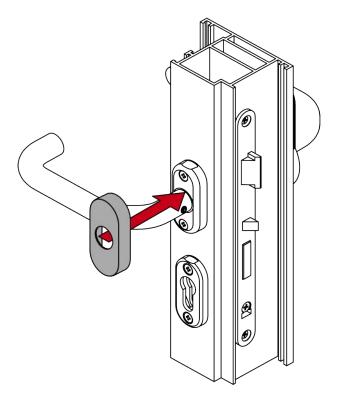




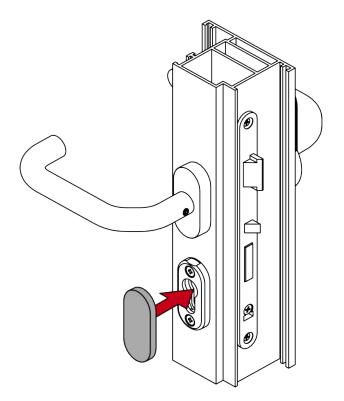
24. Fasten the grub screws firmly onto both handles (TX15, torque 5.0 Nm).



25. Place the inner handle cover with the notch facing downwards onto the inner handle escutcheon.



26. Place a cover with the notch facing downwards on the escutcheon base.



└→ Fitting is now installed.

7.6 Variant A4.P11 (CISA panic bar)

7.6.1 Product-specific safety instructions

IMPORTANT

Damage by drilling

You drill at your own risk. SimonsVoss Technologies GmbH is not liable for damage caused by drilling.

Please also observe the safety instructions of the drilling machine.

Damage caused by unsuitable tools

If you try to open the case with unsuitable tools, the case may be damaged.

Use only the supplied SimonsVoss opening tool.

Loss of the precise guidance of the handle

It may be difficult to install on mortise locks with a retaining nut.

Do not mechanically alter the locking nut. The handle would then lose its precise guidance.

Difficult installation due to inaccurate holes

The fitting cannot be installed if the fastening holes and the spindle do not match.

Make sure that the fastening holes and the spindle are in parallel vertical lines.



NOTE

Sealing escutcheon holes

Any escutcheon holes that exist may be used to manipulate the lock.

- 1. Seal any escutcheon holes with a blind cylinder, for example.
- 2. In the case of FH versions, you must be install a brass dummy cylinder or locking cylinder.

Effect on the mortise lock

The SI.SmartHandle AX acts exclusively on the latch of the mortise lock.

Locking and insurances

Insurance companies place increased demands on a closure.

- 1. If you want to lock the door under insurance law, use a self-locking panic lock or a locking cylinder in addition to the SI.SmartHandle AX.
- 2. Pay attention to the approvals according to EN 179.

SI.SmartHandle AX with self-locking panic lock

The SI.SmartHandle AX only offers full functionality with a self-locking panic lock.

- 1. Combine the SI.SmartHandle AX with a self-locking panic lock.
- 2. Pay attention to the declarations of conformity of the lock manufacturers according to EN 179.

Conditions for authorisation security

Operation with Mifare Classic and/or PinCode keypad excludes authorisation security class D according to DIN EN 16867:2020.

Panic bar manufacturer's documentation

Also observe the panic bar manufacturer's documentation (*www.cisa.com* or *www.g-u.com*).

Pre-bent adapter plate

The adapter plate for the fitting is pre-bent. Its pre-tensioning ensures a frictional connection with the door after installation.

Spare screw included

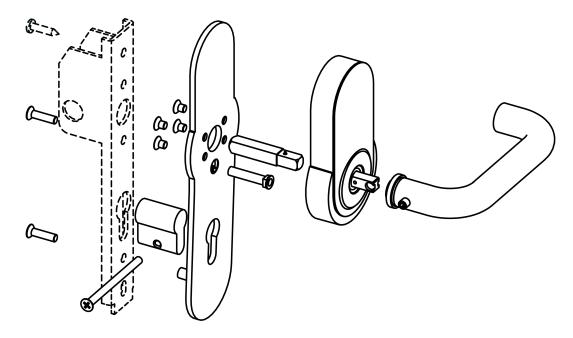
A spare screw is included in the delivery.

Use this spare screw if you have lost a screw to fit the adapter plate.

7.6.2 Scope of delivery

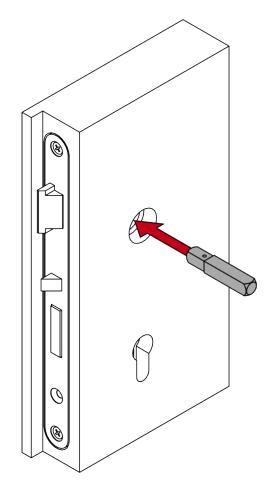
- SI.SmartHandle AX (Panic bar version for CISA or BKS)
- Special tool
- 🚦 Quick guide
- Blank cylinder

7.6.3 CISA design

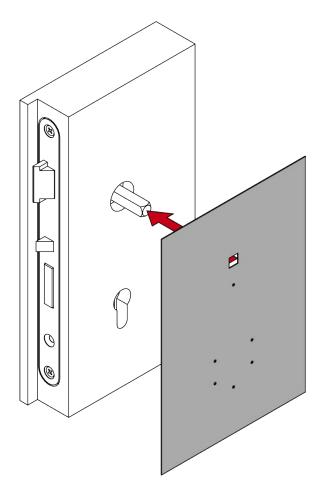


7.6.4 Preparing the door for CISA (drilling template)

- \checkmark Pin or scriber at hand.
- ✓ Drilling template available (see Drilling template for variant A4.P11/ A4.P1/A4.P2 (Panic bars) [▶ 297]).
- ✓ Drill at hand.
- ✓ Suitable drill bits at hand (∅6.5 mm and 8.0 mm).
- ✓ PH2 screwdriver at hand.
- \checkmark Countersink at hand.
- 1. Insert the spindle into the mortise lock.

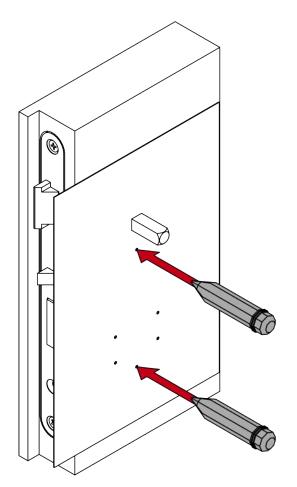


2. Place the drilling template on the spindle.

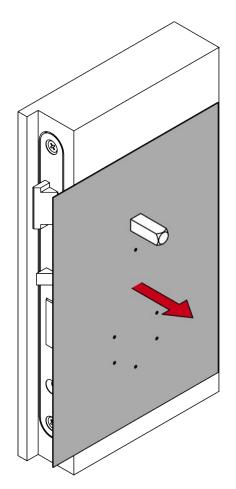


3. Align the drill template vertically using the printed scale.

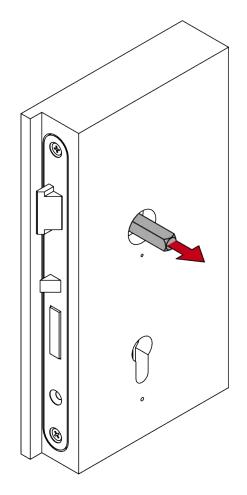
4. Mark the points to be drilled on the door.



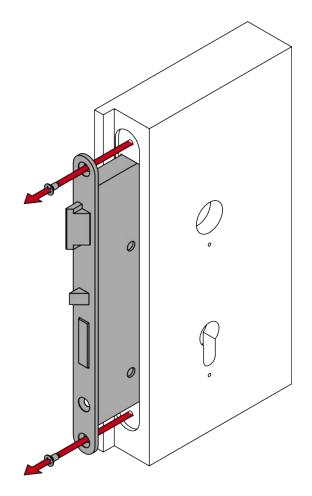
5. Remove the drilling template.



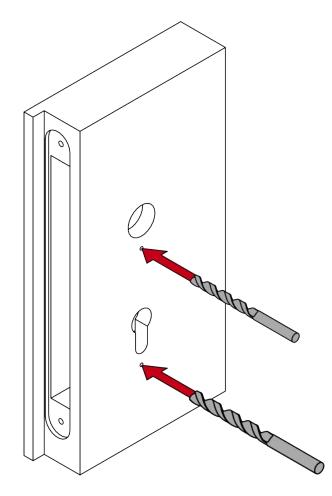
6. Remove the spindle.



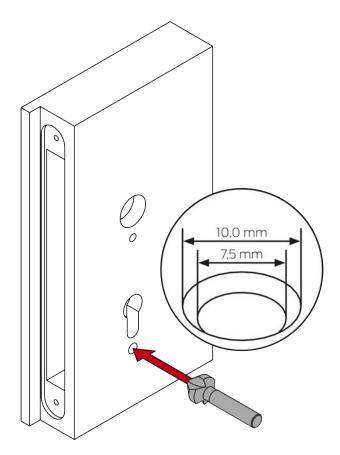
7. Remove the mortise lock (PH2).



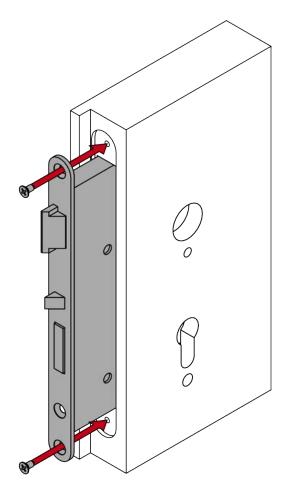
8. Drill the required holes.



9. Countersink the lowest hole with a countersink.



10. Fit the mortise lock (PH2).



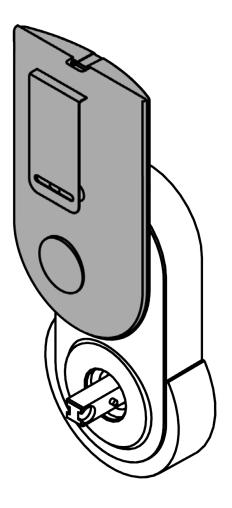
7.6.5 Programming the fitting

Programme the fitting before installation. You can use different programming devices, depending on the product family.

6	

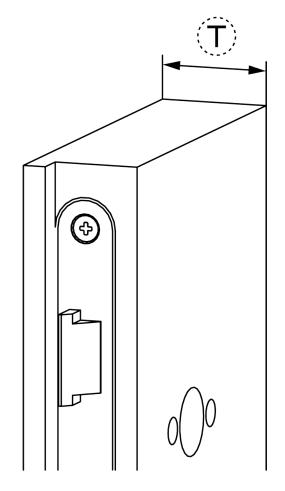


7. Installation 145 / 302

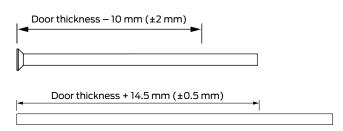


7.6.6 Installing the fitting for CISA

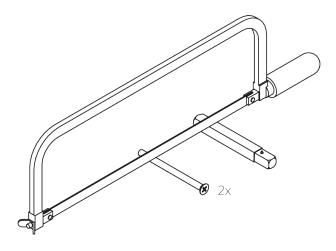
- ✓ Door pre-drilled.
- ✓ PH2 screwdriver at hand.
- ✓ TX15 screwdriver at hand.
- ✓ Vernier calliper at hand.
- ✓ Saw at hand.
- 1. Measure the door thickness.



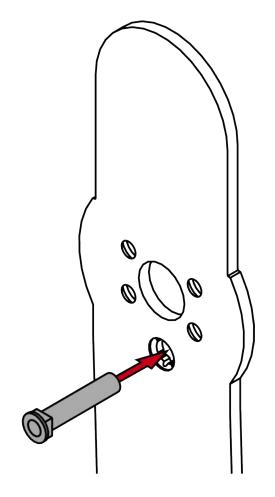
2. Mark the sawing points on the screws and spindle.



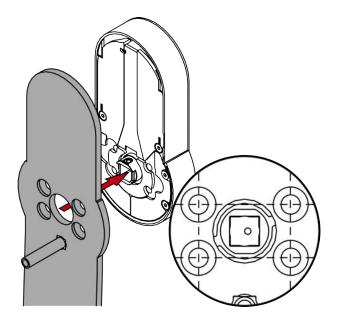
3. Use a suitable saw to cut the screws and spindle.



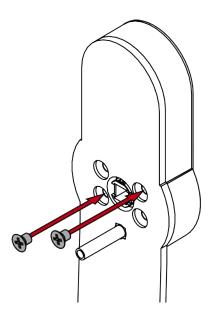
4. Insert the sleeve nuts into the adapter plate.

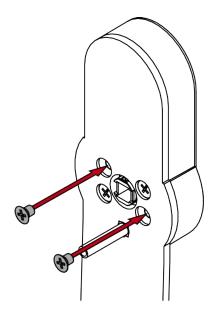


5. Place the adapter plate on the electronic fitting.

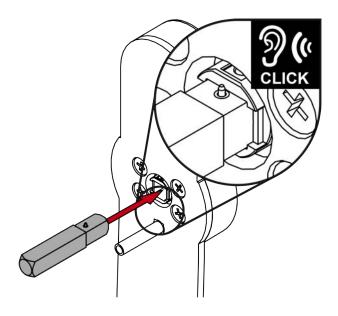


- 6. Align the holes in the adapter plate with the threads in the fitting.
- 7. Fasten the adapter plate firmly in a criss-cross sequence (PH2, torque 1.1 Nm).

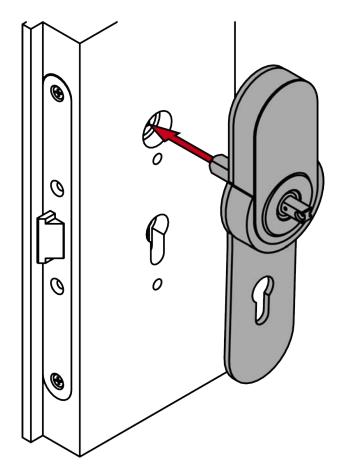


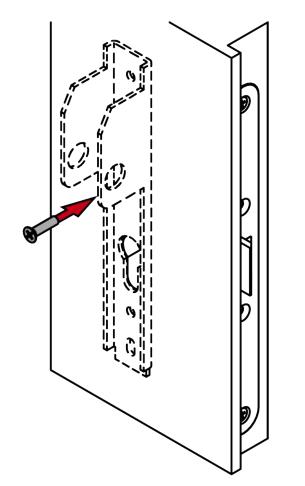


8. Insert the spindle with the pin side into the fitting.



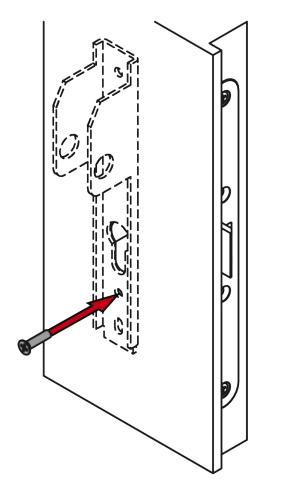
9. Insert the fitting with the adapter plate and spindle into the door.



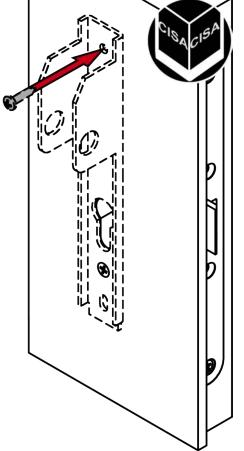


10. Screw the fitting firmly into place in the centre (PH2, torque 1.1 Nm).

11. Screw the adapter plate firmly into place below the keyhole (PH2, torque 1.1 Nm).







13. Insert the dummy cylinder.

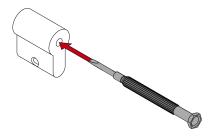


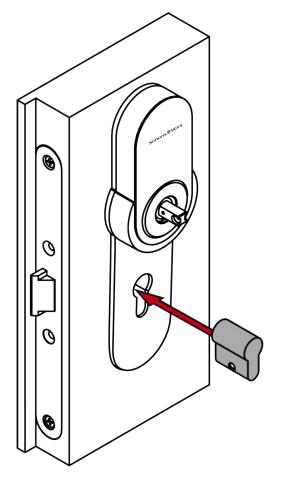
NOTE

Feed the blank cylinder into the hole using a screwdriver

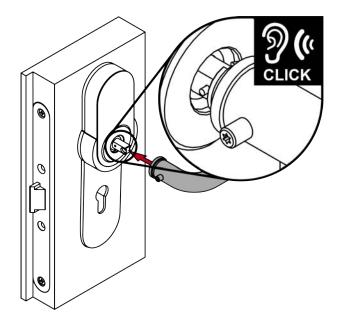
It is difficult to position the blank cylinder correctly, especially in thick doors.

- 1. Insert a screwdriver into the hole in the blank cylinder.
- 2. Position the blank cylinder using the screwdriver.

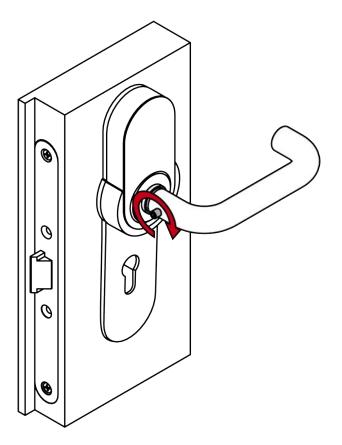




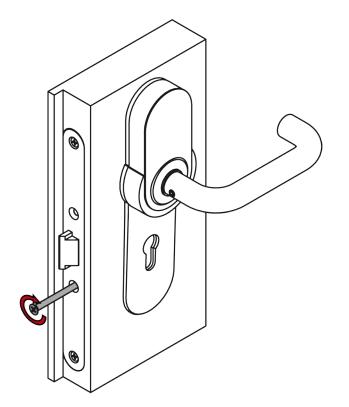
14. Push the handle onto the outer fitting.



15. Firmly fasten the grub screw on the outside handle (TX15; torque: 5.0 Nm).



16. Screw the dummy cylinder firmly into place (PH2, torque 1.1 Nm).



└→ Fitting is now installed.

7.7 Variant A4.P1/A4.P2 (BKS panic bar)

7.7.1 Product-specific safety instructions

IMPORTANT

Damage by drilling

You drill at your own risk. SimonsVoss Technologies GmbH is not liable for damage caused by drilling.

Please also observe the safety instructions of the drilling machine.

Damage caused by unsuitable tools

If you try to open the case with unsuitable tools, the case may be damaged.

Use only the supplied SimonsVoss opening tool.

Loss of the precise guidance of the handle

It may be difficult to install on mortise locks with a retaining nut.

Do not mechanically alter the locking nut. The handle would then lose its precise guidance.

Difficult installation due to inaccurate holes

The fitting cannot be installed if the fastening holes and the spindle do not match.

Make sure that the fastening holes and the spindle are in parallel vertical lines.



NOTE

Sealing escutcheon holes

Any escutcheon holes that exist may be used to manipulate the lock.

- 1. Seal any escutcheon holes with a blind cylinder, for example.
- 2. In the case of FH versions, you must be install a brass dummy cylinder or locking cylinder.

Effect on the mortise lock

The SI.SmartHandle AX acts exclusively on the latch of the mortise lock.

Locking and insurances

Insurance companies place increased demands on a closure.

- 1. If you want to lock the door under insurance law, use a self-locking panic lock or a locking cylinder in addition to the SI.SmartHandle AX.
- 2. Pay attention to the approvals according to EN 179.

SI.SmartHandle AX with self-locking panic lock

The SI.SmartHandle AX only offers full functionality with a self-locking panic lock.

- 1. Combine the SI.SmartHandle AX with a self-locking panic lock.
- 2. Pay attention to the declarations of conformity of the lock manufacturers according to EN 179.

Conditions for authorisation security

Operation with Mifare Classic and/or PinCode keypad excludes authorisation security class D according to DIN EN 16867:2020.

Panic bar manufacturer's documentation

Also observe the panic bar manufacturer's documentation (*www.cisa.com* or *www.g-u.com*).

Pre-bent adapter plate

The adapter plate for the fitting is pre-bent. Its pre-tensioning ensures a frictional connection with the door after installation.

Spare screw included

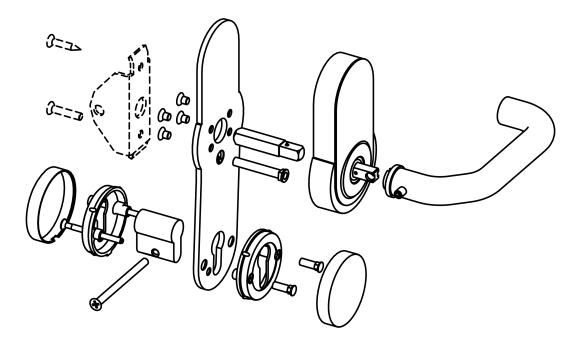
A spare screw is included in the delivery.

Use this spare screw if you have lost a screw to fit the adapter plate.

7.7.2 Scope of delivery

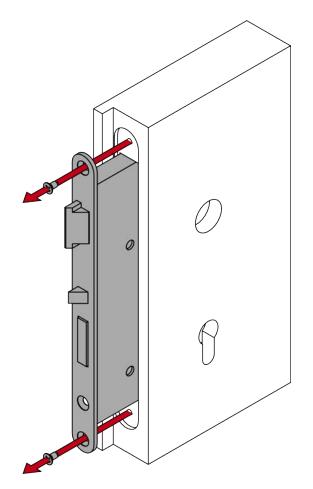
- SI.SmartHandle AX (Panic bar version for CISA or BKS)
- Special tool
- 🚦 Quick guide
- Blank cylinder

7.7.3 BKS design

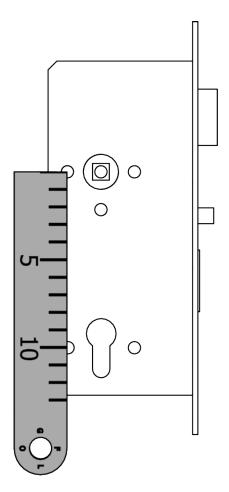


7.7.4 Preparing the door for BKS (drilling template)

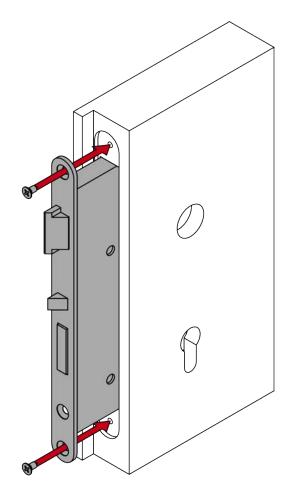
- \checkmark Pin or scriber at hand.
- ✓ Drilling template available (see *Drilling template for variant A4.P11/ A4.P1/A4.P2 (Panic bars)* [▶ 297]).
- ✓ PH2 screwdriver at hand.
- ✓ Ruler at hand.
- ✓ Drill at hand.
- ✓ Suitable drill bits at hand (∅6.5 mm and 8.0 mm).
- 1. Remove the mortise lock (PH2).



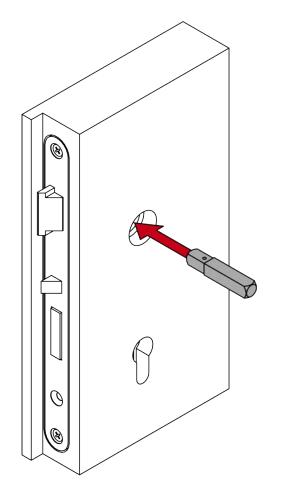
2. Measure the vertical distance between the centres of the fixing holes.



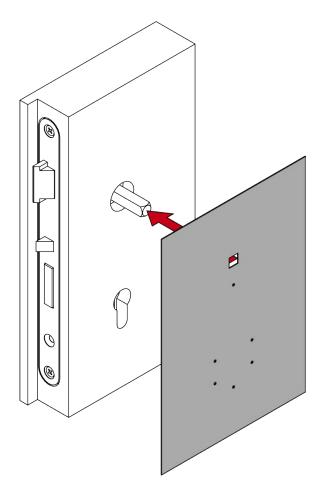
3. Fit the mortise lock (PH2).



4. Insert the spindle into the mortise lock.

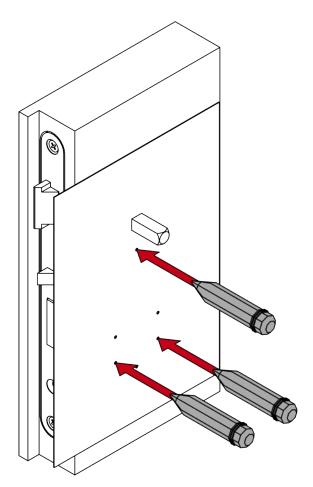


5. Place the drilling template on the spindle.

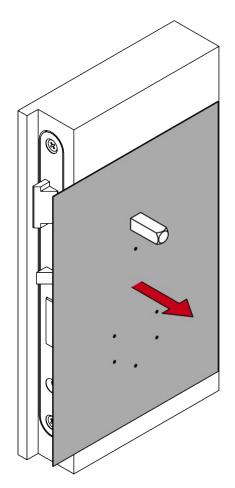


- 6. Align the drill template vertically using the printed scale.
- 7. Use the distance you measured previously to determine where the points need to be drilled.

8. Mark the points to be drilled on the door.

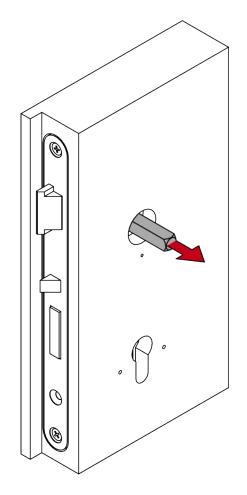


9. Remove the drilling template.

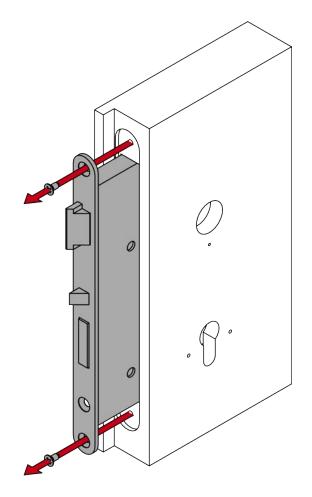


7. Installation 165 / 302

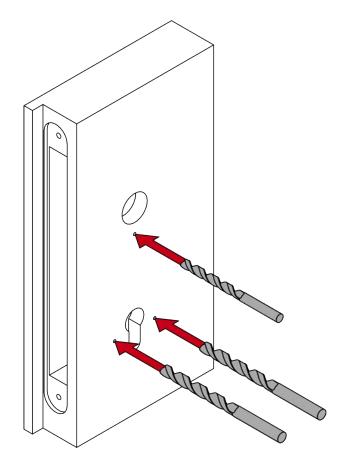
10. Remove the spindle.



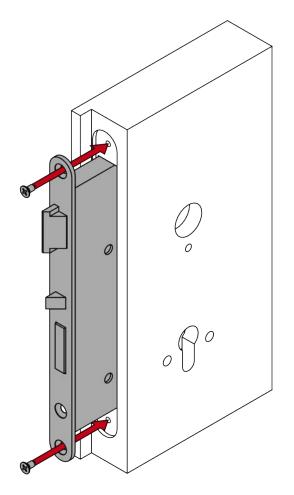
11. Remove the mortise lock (PH2).



12. Drill the required holes.



13. Fit the mortise lock (PH2).

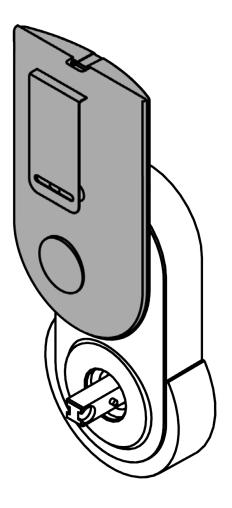


7.7.5 Programming the fitting

Programme the fitting before installation. You can use different programming devices, depending on the product family.

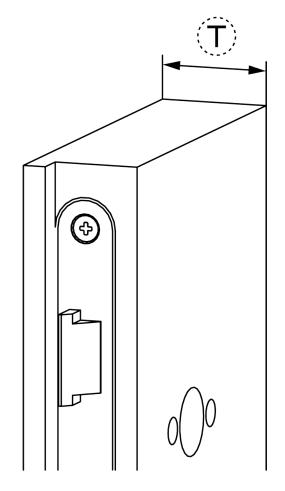


7. Installation 169 / 302

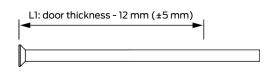


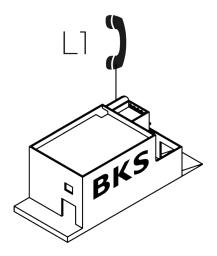
7.7.6 Installing the fitting for BKS

- ✓ Door pre-drilled.
- ✓ PH2 screwdriver at hand.
- ✓ TX15 screwdriver at hand.
- ✓ Vernier calliper at hand.
- ✓ Saw at hand.
- 1. Measure the door thickness.

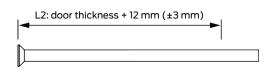


2. Order the L1 screw of the appropriate length from BKS.

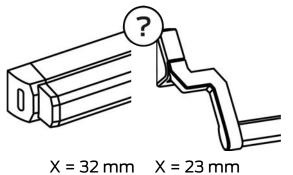




3. Mark the sawing points on the L2 screws.



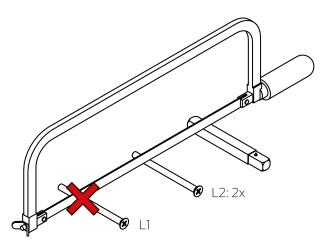
4. Determine the length X, depending on the panic bar type.



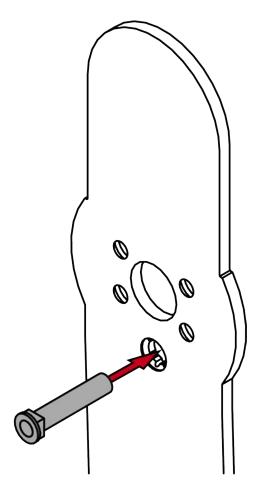
- x = 3211111 x = 2311111
- 5. Mark the sawing point on the spindle.

Door thickness + X (±1 mm)

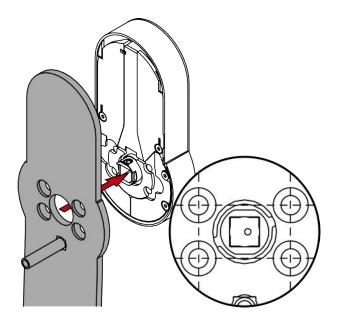
6. Use a suitable saw to cut the screws and spindle.



7. Insert the sleeve nuts into the adapter plate.



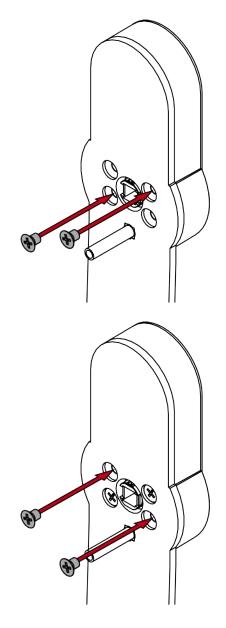
8. Place the adapter plate on the electronic fitting.



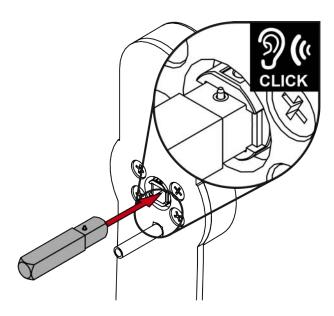
9. Align the holes in the adapter plate with the threads in the fitting.

7. Installation 173 / 302

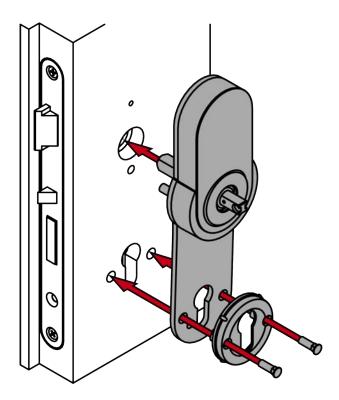
10. Fasten the adapter plate firmly in a criss-cross sequence (PH2, torque 1.1 Nm).



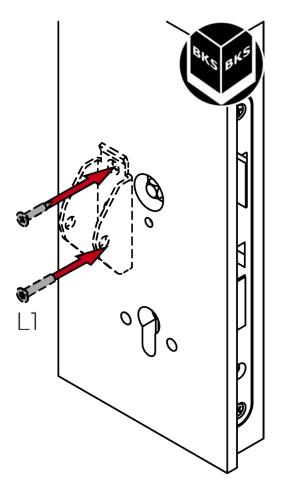
11. Insert the spindle with the pin side into the fitting.



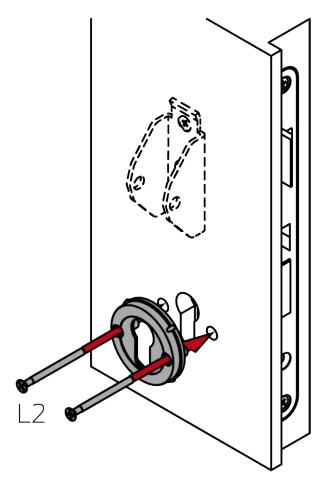
12. Insert the fitting with adapter plate, spindle and escutcheon base into the door.



13. Screw the fitting into place in the centre as described in the BKS documentation (use the L1 screw and the wood screw ordered from BKS).



14. Screw the escutcheon base to the assembly using the L2 screws (PH2, torque: 1.1 Nm).



15. Insert the dummy cylinder.

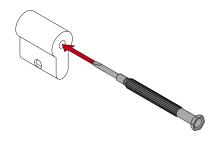


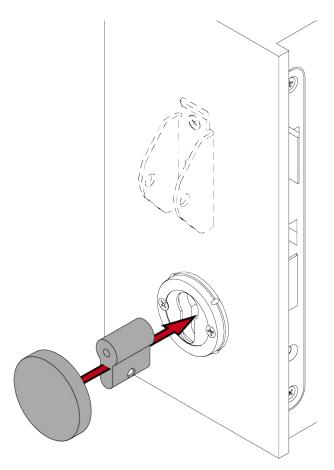
NOTE

Feed the blank cylinder into the hole using a screwdriver

It is difficult to position the blank cylinder correctly, especially in thick doors.

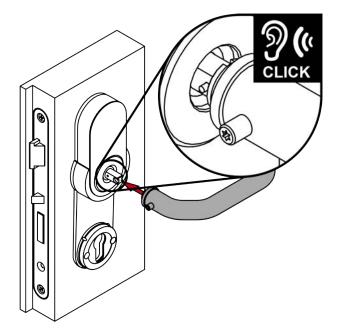
- 1. Insert a screwdriver into the hole in the blank cylinder.
- 2. Position the blank cylinder using the screwdriver.





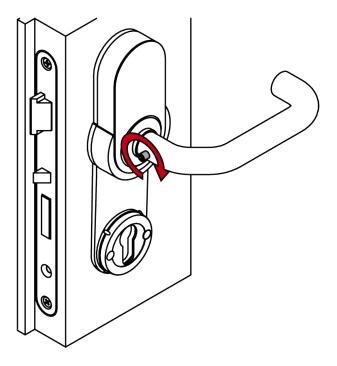
16. Place the escutcheon cover on the escutcheon base.

17. Push the handle onto the outer fitting.

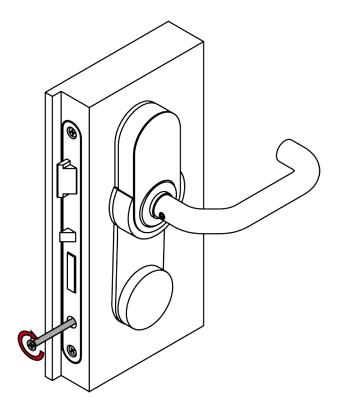


7. Installation 178 / 302

Firmly fasten the grub screw on the outside handle (TX15; torque: 5.0 Nm).



19. Screw the dummy cylinder firmly into place (PH2, torque 1.1 Nm).



└→ Fitting is now installed.

7.8 Variant DS (Reader on both sides)

7.8.1 Product-specific safety instructions

IMPORTANT

Damage by drilling

You drill at your own risk. SimonsVoss Technologies GmbH is not liable for damage caused by drilling.

Please also observe the safety instructions of the drilling machine.

Damage caused by unsuitable tools

If you try to open the case with unsuitable tools, the case may be damaged.

Use only the supplied SimonsVoss opening tool.

Loss of the precise guidance of the handle

It may be difficult to install on mortise locks with a retaining nut.

Do not mechanically alter the locking nut. The handle would then lose its precise guidance.

Difficult installation due to inaccurate holes

The fitting cannot be installed if the fastening holes and the spindle do not match.

Make sure that the fastening holes and the spindle are in parallel vertical lines.



NOTE

Incorrect installation

SimonsVoss Technologies GmbH accepts no liability for damage caused to doors or components due to incorrect fitting or installation.

Effect on the mortise lock

The SI.SmartHandle AX acts exclusively on the latch of the mortise lock.

Locking and insurances

Insurance companies place increased demands on a closure.

- 1. If you want to lock the door under insurance law, use a self-locking panic lock or a locking cylinder in addition to the SI.SmartHandle AX.
- 2. Pay attention to the approvals according to EN 179.

SI.SmartHandle AX with self-locking panic lock

The SI.SmartHandle AX only offers full functionality with a self-locking panic lock.

- 1. Combine the SI.SmartHandle AX with a self-locking panic lock.
- Pay attention to the declarations of conformity of the lock manufacturers according to EN 179.

Conditions for authorisation security

Operation with Mifare Classic and/or PinCode keypad excludes authorisation security class D according to DIN EN 16867:2020.

Sealing escutcheon holes

Any escutcheon holes that exist may be used to manipulate the lock.

- 1. Seal any escutcheon holes with a blind cylinder, for example.
- 2. In the case of FH versions, you must be install a brass dummy cylinder or locking cylinder.

Rest time for anti-slip surface

The supplied adapter plate feature a non-slip surface. This requires a settling time for it to be fully effective.

- 1. After installing the adapter plate, wait five hours before continuing with the installation.
- 2. If you need to finish installing beforehand, do not turn the handle as far as it will go.

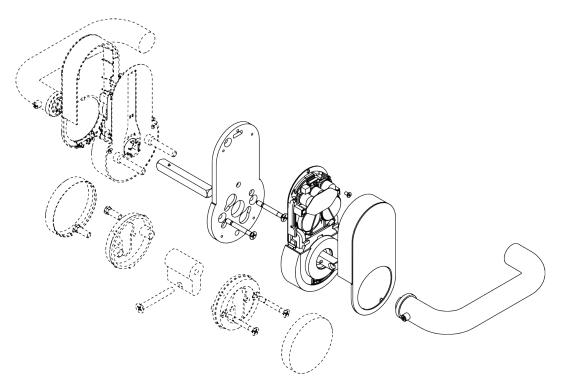
7.8.2 Scope of delivery

- SI.SmartHandle AX (For installation on both sides, consisting of adapter plates and inner part. The stationary SI.SmartHandle AX for the outer part is not included.)
- Special tool
- 🗜 Quick guide

Depending on version:

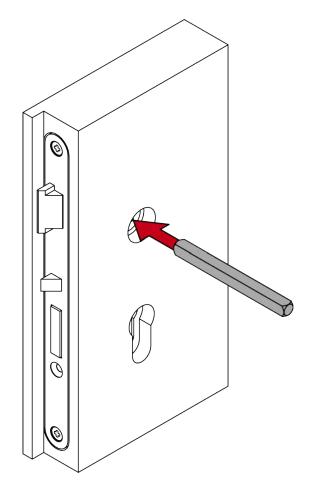
- Adapter set, 7 mm spindle
- Adapter sleeve, 8.5 mm spindle
- Adapter sleeve, 9 mm spindle
- Adapter sleeve, 10 mm spindle

7.8.3 Design

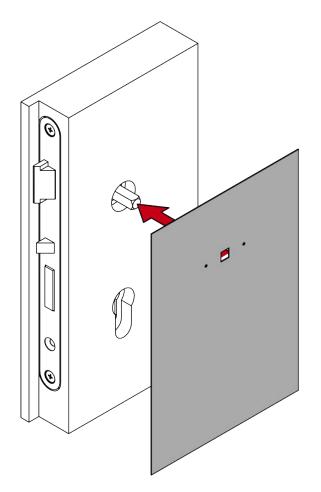


7.8.4 Prepare door (drilling template)

- \checkmark Pin or scriber at hand.
- ✓ Drilling template available (see *Drilling template for DS variant* (*Reading on both sides*) [▶ 298]).
- ✓ Drill at hand.
- Suitable drill bit at hand (depending on mortise lock hole diameter: 8.5 mm/9.5 mm/10.5 mm).
- ✓ PH2 screwdriver at hand.
- 1. Insert the spindle into the mortise lock.

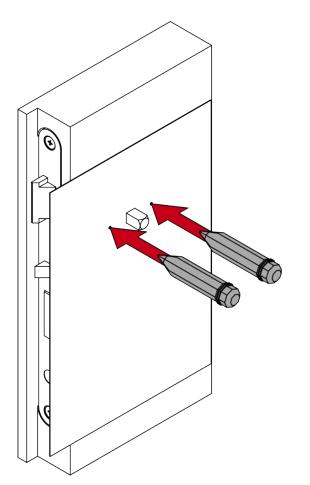


2. Place the drilling template on the spindle.

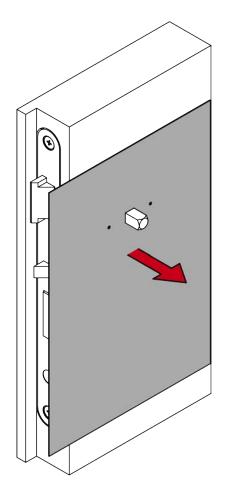


3. Align the drill template vertically using the printed scale.

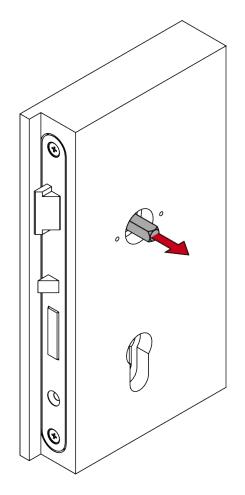
4. Mark the points to be drilled on the door.



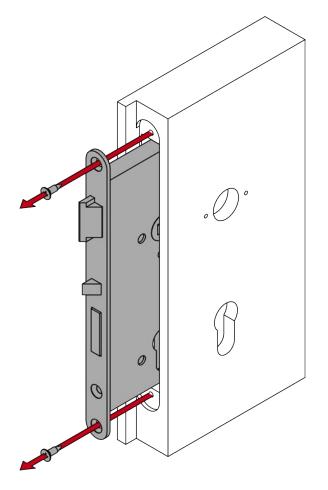
5. Remove the drilling template.



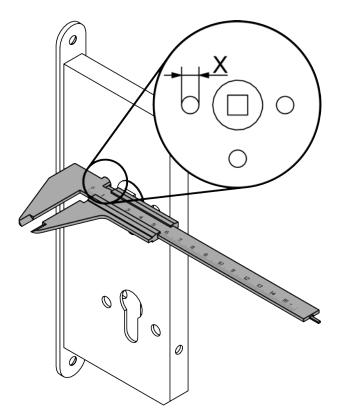
6. Remove the spindle.



7. Remove the mortise lock (PH2).



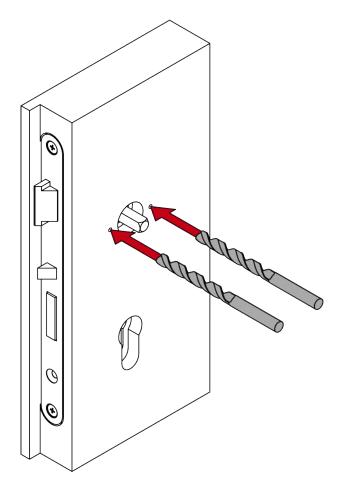
8. Measure the diameter of the fastening holes.



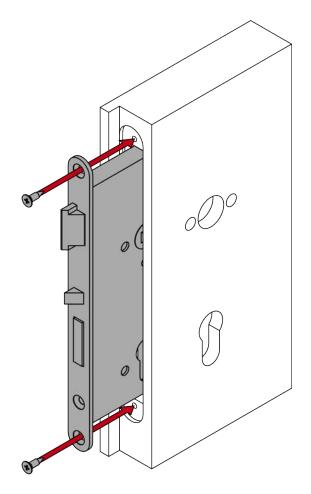
Ø fastening holes	Drill bits required
5.5 mm–6.3 mm	8.5 mm
6.4 mm–7.3 mm	8.5 mm
7.4 mm–8.7 mm	9.5 mm
≥ 8.8 mm	10.5 mm

9. Determine the required drill bit based on the measured diameter.

10. Drill the required holes.

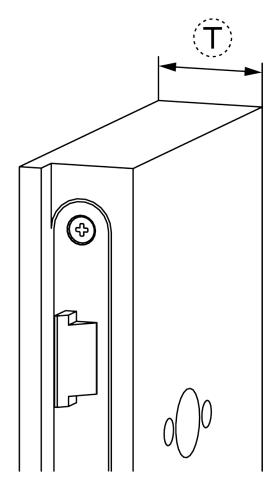


11. Fit the mortise lock (PH2).

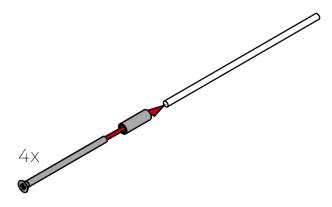


7.8.5 For door thickness X: prepare threaded rods and spindle

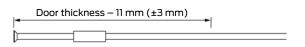
- ✓ Saw at hand.
- Vernier calliper at hand.
- PH2 screwdriver at hand.
- 1. For X: measure the door thickness.

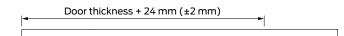


2. For X: fasten the screws, threaded sleeves and threaded rods together.

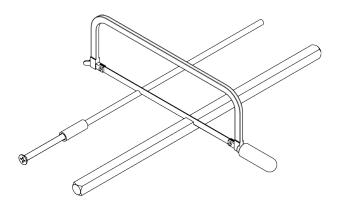


3. For X: mark the sawing points on the threaded rods and spindle.





4. For X: use a suitable saw to cut the threaded rods and spindle.



7.8.6 Programming the fitting

Programme the fitting before installation. You can use different programming devices, depending on the product family.

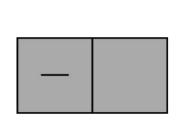


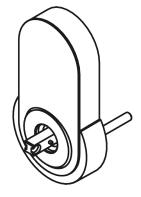
NOTE

Active technology only with shortened range

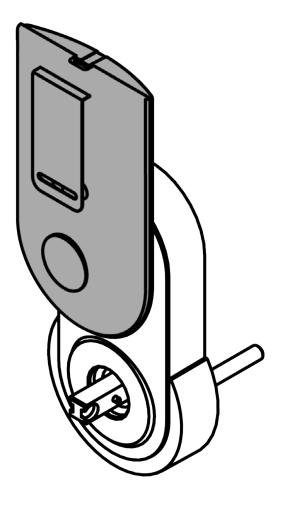
Active transponder technology offers a significantly longer range. During normal operation, both are reached SI.SmartHandle AX at the same time and communication errors can occur.

 Activate the checkbox for a shortened range for both sides on the SI.SmartHandle AX in LSM/AXM.



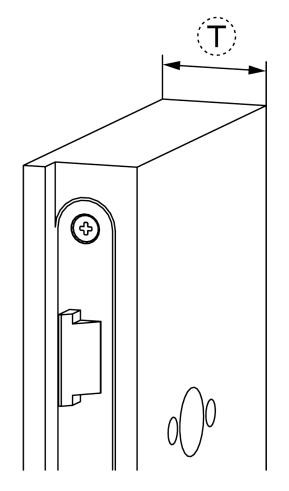


7. Installation 192 / 302

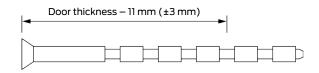


7.8.7 Installing the fitting

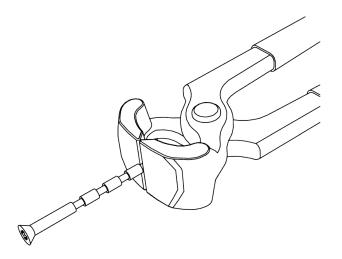
- ✓ Door pre-drilled.
- ✓ PH2 screwdriver at hand.
- ✓ TX15 screwdriver at hand.
- ✓ Vernier calliper at hand.
- ✓ Pincers at hand.
- 1. For S, M and L: measure the door thickness.



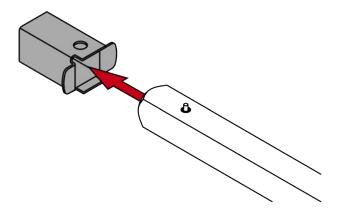
2. For S, M and L: determine the cutting points on the cut-to-length screws.



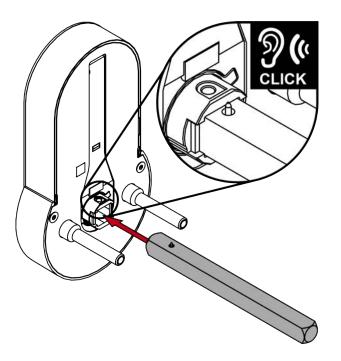
3. For S, M and L: shorten the cut-to-length screws.

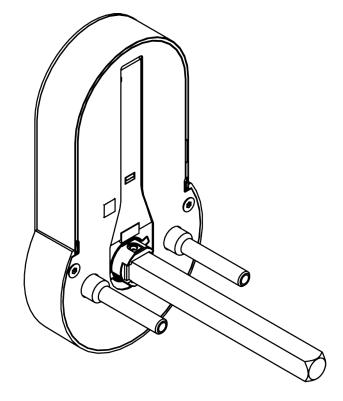


4. For 7 mm spindle: insert the adapter sleeve onto the side of the spindle with the pin.

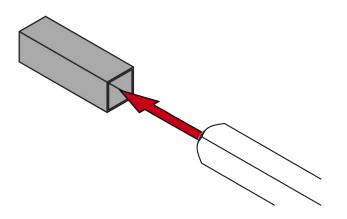


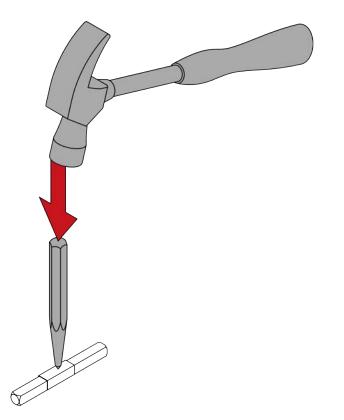
- 5. Insert the spindle with the pin side into the fitting.
 - → Pin will snap into position in the mount.



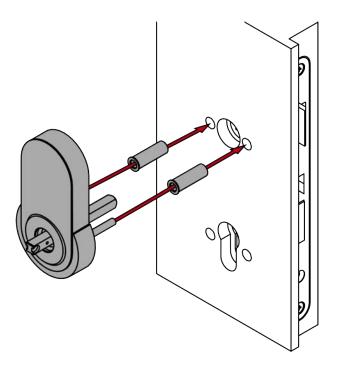


6. For 8.5 mm, 9 mm and 10 mm spindles: slide the adapter sleeve into the centre of the spindle. Use a punch and hammer to make an indent in the adapter sleeve to prevent it from slipping.



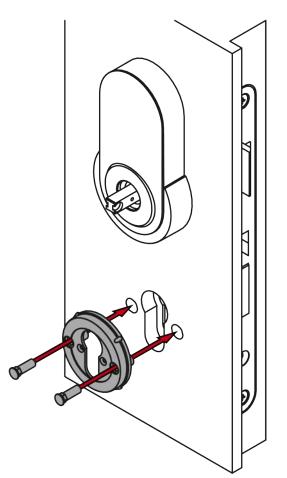


7. Insert the outer fitting, with adapter sleeves if necessary, into the door from the outside.

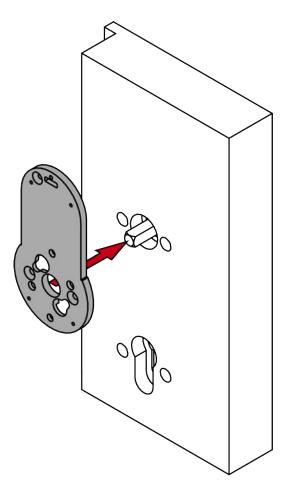


Ø mortise lock fastening hole	Adapter sleeves
5.5 mm–6.3 mm	No adapter sleeves
6.4 mm–7.3 mm	6.4 mm
7.4 mm–8.7 mm	7.4 mm
≥ 8.8 mm	8.8 mm

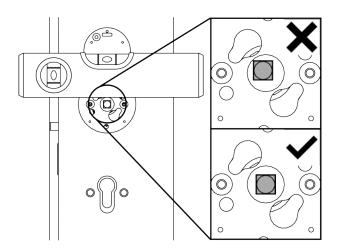
8. Insert the escutcheon base into the door with the sleeve nuts on the outer side.



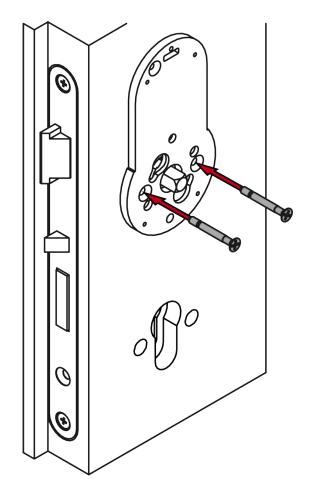
9. Position the adapter plate on the door.

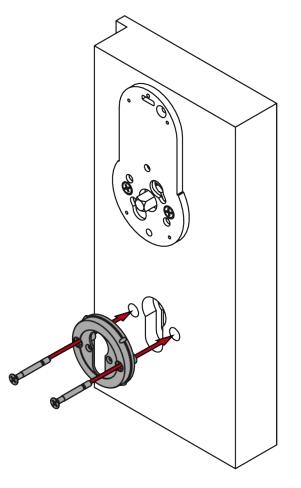


10. Align the adapter plate so that the spindle is precisely centred and the adapter plate is perfectly perpendicular.



11. Screw the adapter plate firmly into place (PH2, torque 1.1 Nm).





12. Screw the escutcheon base into place on the inner side.

13. Insert the dummy cylinder.

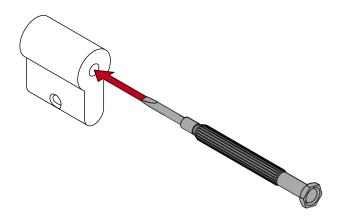


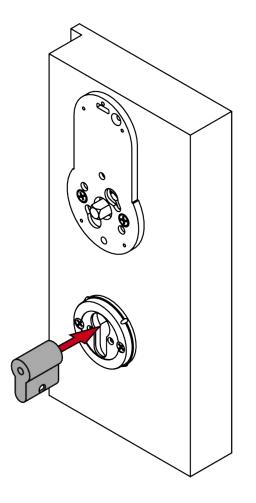
NOTE

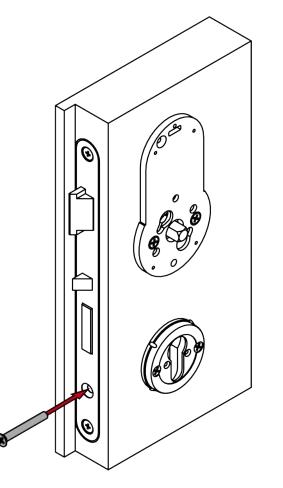
Feed the blank cylinder into the hole using a screwdriver

It is difficult to position the blank cylinder correctly, especially in thick doors.

- 1. Insert a screwdriver into the hole in the blank cylinder.
- 2. Position the blank cylinder using the screwdriver.







14. Screw the dummy cylinder firmly into place (PH2, torque 1.1 Nm).

15. Wait five hours for the anti-slip coating to set.

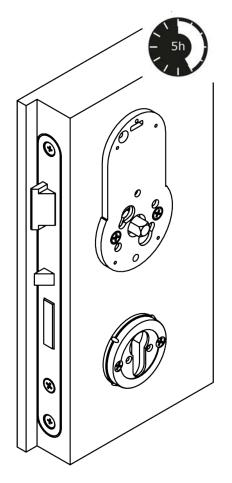


NOTE

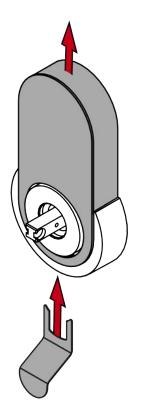
Rest time for anti-slip surface

The supplied adapter plate feature a non-slip surface. This requires a settling time for it to be fully effective.

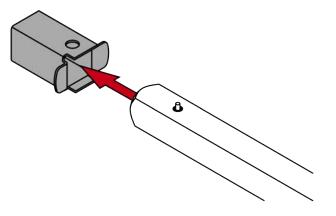
- 1. After installing the adapter plate, wait five hours before continuing with the installation.
- 2. If you need to finish installing beforehand, do not turn the handle as far as it will go.



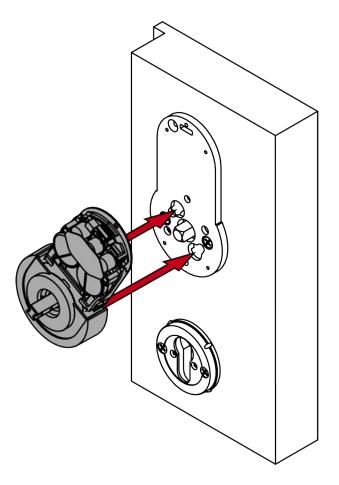
16. Remove the cover with the tool.



17. For 7 mm spindle: attach the adapter sleeve to the spindle.

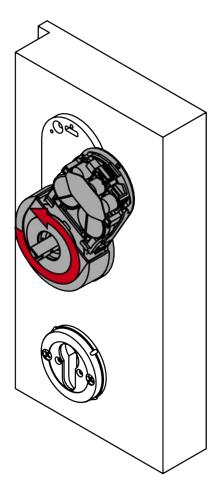


18. Insert the fitting into the adapter plate.



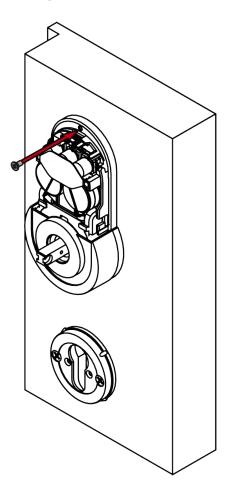
7. Installation 205 / 302

19. Rotate the fitting until it is straight.

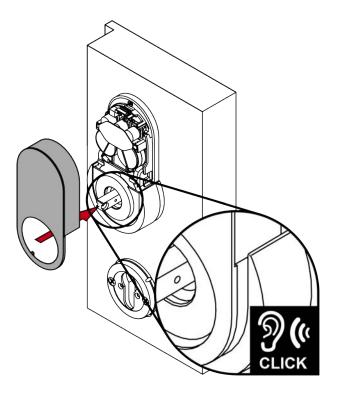


7. Installation 206 / 302

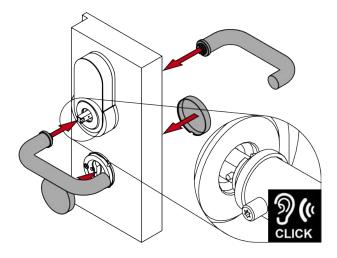
20.Screw the fitting firmly onto the adapter plate to prevent it from twisting.



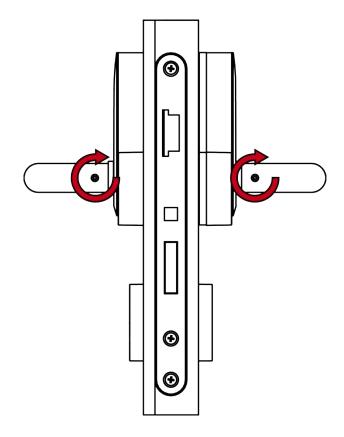
21. Place the cover on the fitting.



- 22. Place the outside handles on the fittings.
- 23. Place the covers on the escutcheon bases.



24. Fasten the grub screws firmly onto both handles (TX15, torque 5.0 Nm).



→ Fitting is now installed.

7.9 Variants E0 and E1 (Scandinavian Oval)

7.9.1 Product-specific safety instructions

IMPORTANT

Damage caused by unsuitable tools

If you try to open the case with unsuitable tools, the case may be damaged.

Use only the supplied SimonsVoss opening tool.

Loss of the precise guidance of the handle

It may be difficult to install on mortise locks with a retaining nut.

Do not mechanically alter the locking nut. The handle would then lose its precise guidance.



NOTE

Incorrect installation

SimonsVoss Technologies GmbH accepts no liability for damage caused to doors or components due to incorrect fitting or installation.

Effect on the mortise lock

The SI.SmartHandle AX acts exclusively on the latch of the mortise lock.

Locking and insurances

Insurance companies place increased demands on a closure.

- 1. If you want to lock the door under insurance law, use a self-locking panic lock or a locking cylinder in addition to the SI.SmartHandle AX.
- 2. Pay attention to the approvals according to EN 179.

SI.SmartHandle AX with self-locking panic lock

The SI.SmartHandle AX only offers full functionality with a self-locking panic lock.

- 1. Combine the SI.SmartHandle AX with a self-locking panic lock.
- 2. Pay attention to the declarations of conformity of the lock manufacturers according to EN 179.

Conditions for authorisation security

Operation with Mifare Classic and/or PinCode keypad excludes authorisation security class D according to DIN EN 16867:2020.

Sealing escutcheon holes

Any escutcheon holes that exist may be used to manipulate the lock.

- 1. Seal any escutcheon holes with a blind cylinder, for example.
- 2. In the case of FH versions, you must be install a brass dummy cylinder or locking cylinder.

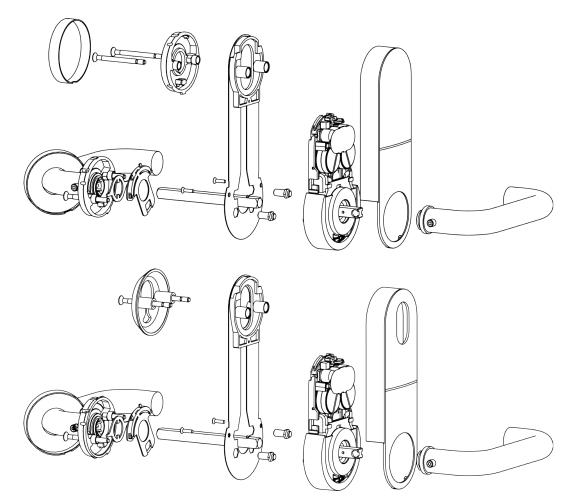
7.9.2 Scope of delivery

- SI.SmartHandle AX (Scandinavian Oval)
- Special tool
- Quick guide

Depending on version:

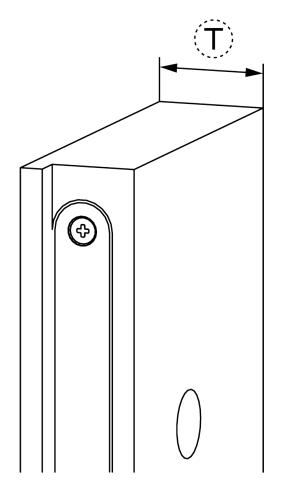
- Adapter set, 7 mm spindle
- Adapter sleeve, 8.5 mm spindle
- Adapter sleeve, 10 mm spindle
- Blank cylinder

7.9.3 Design

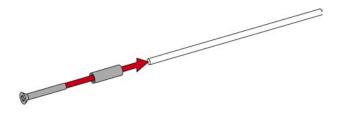


7.9.4 For door thickness X: prepare threaded rods and spindle

- ✓ Saw at hand.
- ✓ Vernier calliper at hand.
- ✓ PH2 screwdriver at hand.
- 1. For X: measure the door thickness.

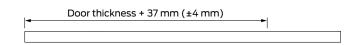


2. For X: fasten the screws, threaded sleeves and threaded rods together.

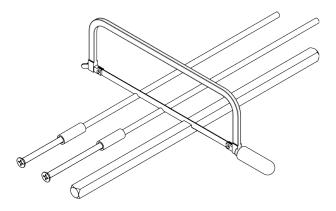


3. For X: mark the sawing points on the threaded rods and spindle.

2× L1: door thickness + 10 mm (±3 mm)
2× L2: door thickness + 3 mm (±3 mm)

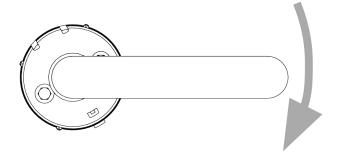


4. For X: use a suitable saw to cut the threaded rods and spindle.



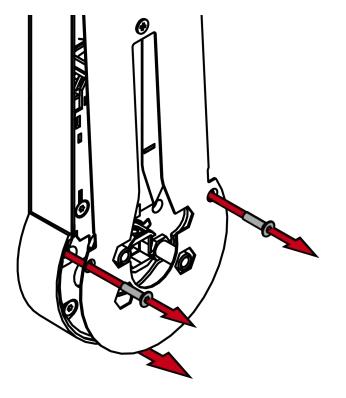
7.9.5 For inner door handle, clockwise: prepare stud bolts

- ✓ TX3 screwdriver at hand.
- 1. Check whether you need to turn the inner handle clockwise.

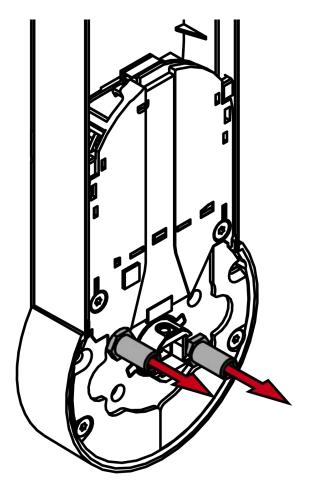


→ If yes, refit the SI.SmartHandle AX's stud nuts as described.

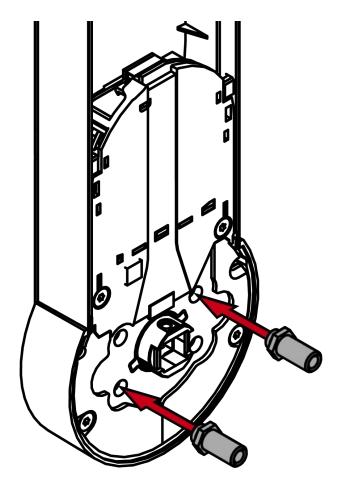
2. Unscrew the SI.SmartHandle AX rear (TX8).



3. Unscrew the stud nuts.

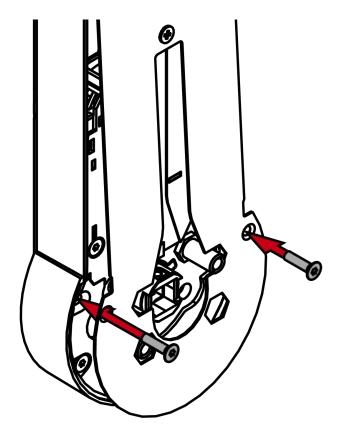


4. Re-fasten the stud nuts firmly in the new positions.



7. Installation 214 / 302

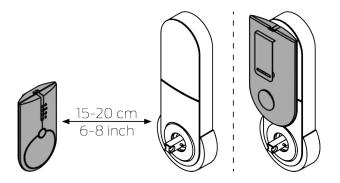
5. Screw the SI.SmartHandle AX rear firmly into place again (TX8, torque 1.1 Nm).

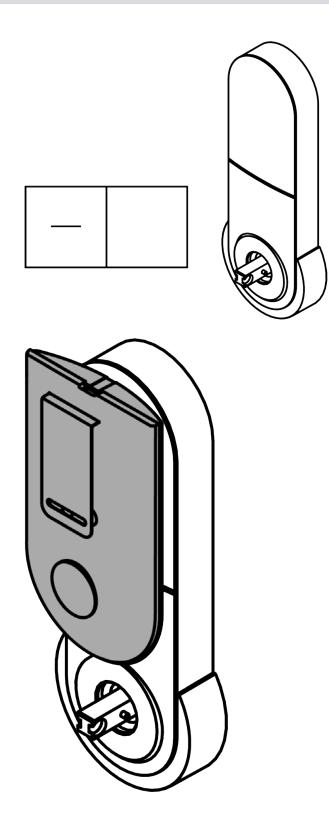


→ Stud nuts are fastened through the SI.SmartHandle AX rear again.

7.9.6 Programming the fitting

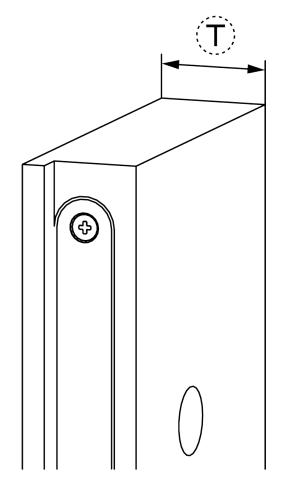
Programme the fitting before installation. You can use different programming devices, depending on the product family.



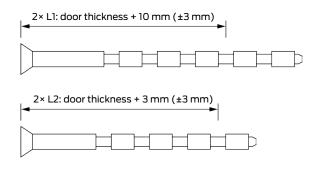


7.9.7 Installing the fitting

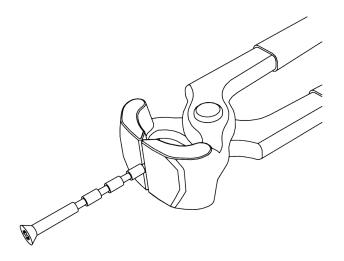
- ✓ Door pre-drilled.
- ✓ PH2 screwdriver at hand.
- ✓ TX15 screwdriver at hand.
- ✓ Vernier calliper at hand.
- ✓ Pincers at hand.
- 1. For S, M and L: measure the door thickness.



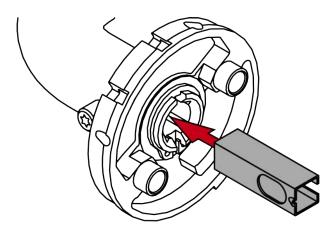
2. For S, M and L: determine the separation points on the cut-to-length screws L1 and L2.



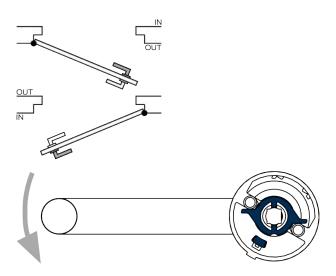
3. For S, M and L: trim the cut-to-length screws L1 and L2.



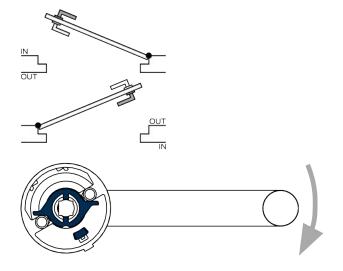
4. For 7 mm spindle: place the adapter sleeve in the inner handle in such a way that the recess faces the grub screw.



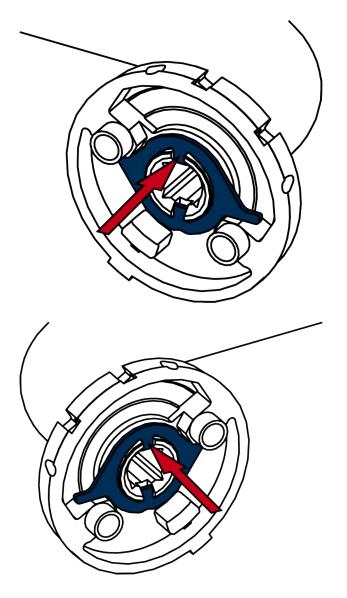
 Determine your inner handle's direction rotation as viewed from the inside: clockwise (clockwise = CW) or anti-clockwise (counter-clockwise = CCW).



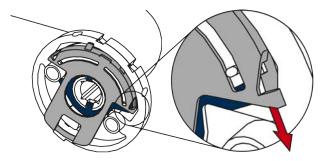
SmartIntego Digital SmartHandle AX (Manual)



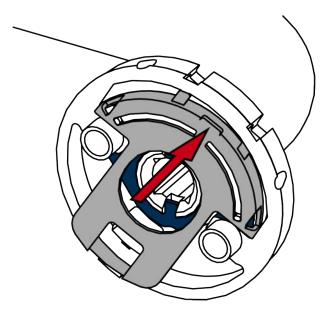
6. Insert the interchangeable plate into the inner handle as required.



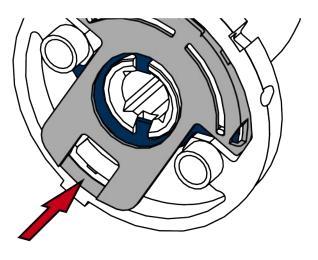
7. Press the spring plate on one side against the interchangeable plate so that the spring is compressed.



8. At the same time, hook the spring plate tabs into the slot in the inner handle.

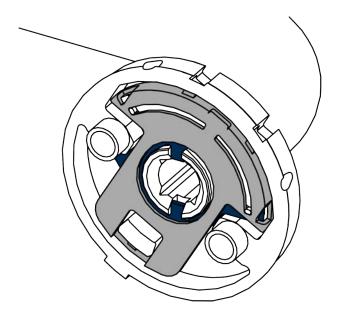


9. Press down the spring plate bracket.

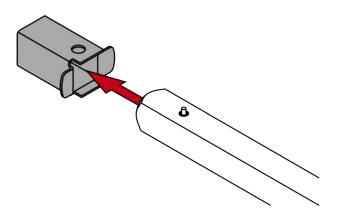


 \mapsto The inner handle is now ready.

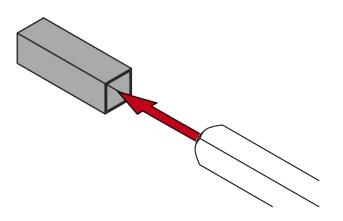
SmartIntego Digital SmartHandle AX (Manual)

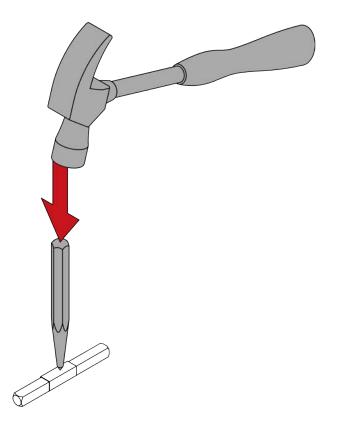


10. For 7 mm spindle: insert the adapter sleeve onto the side of the spindle with the pin.

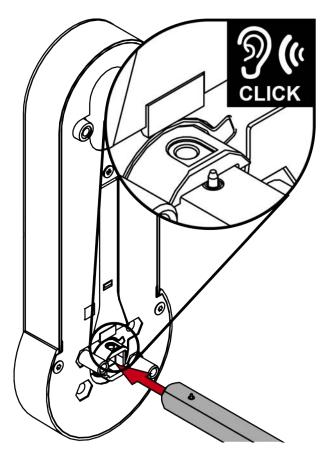


11. For 8.5 mm and 10 mm spindle: slide the adapter sleeve into the centre of the spindle. Use a punch and hammer to make an indent in the adapter sleeve to prevent it from slipping.

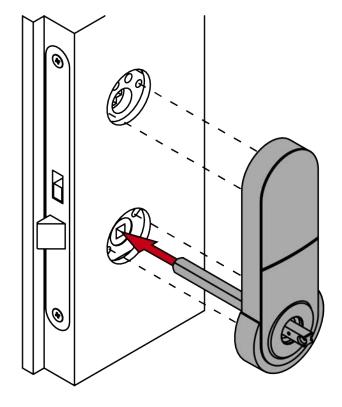




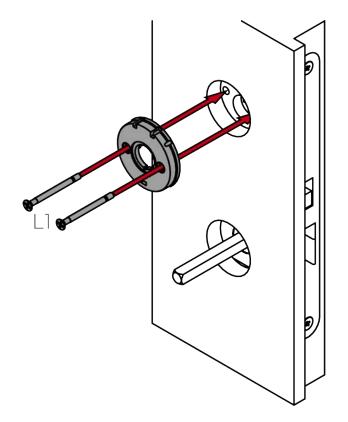
- 12. Insert the spindle with the pin side into the fitting.
 - \vdash Pin will snap into position in the mount.



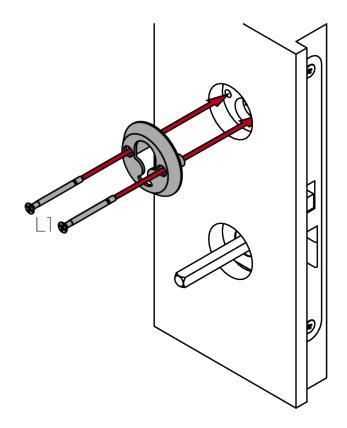
13. Insert the fitting with the spindle into the door from the outside.



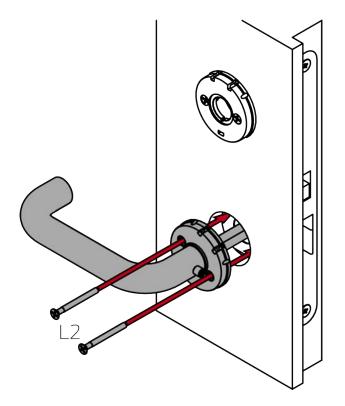
14. Fasten the escutcheon base firmly with the L1 screws (PH2, torque 1.1 Nm).

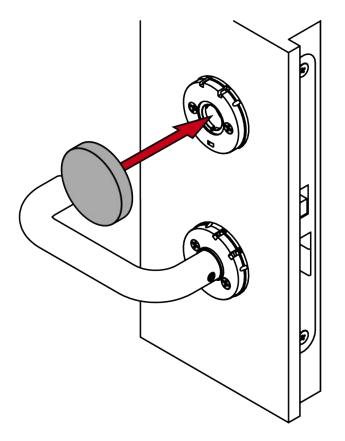


SmartIntego Digital SmartHandle AX (Manual)



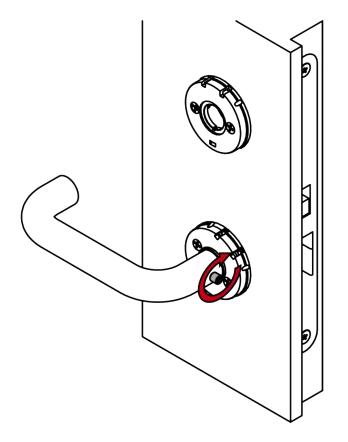
15. For non-MO: fasten the inner handle with the L2 screws (PH2, torque 1.1 Nm).



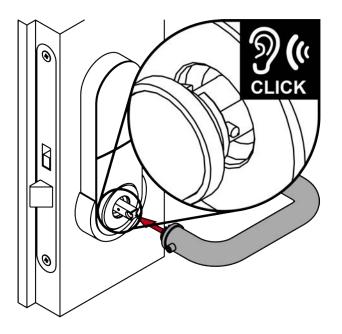


16. For non-MO: position the escutcheon cover on the escutcheon base.

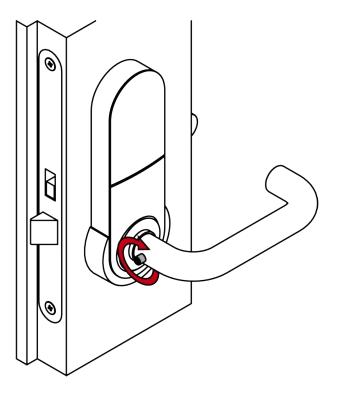
17. Fasten the set screw on the inner handle firmly (TX15, torque 5.0 Nm).



18. Fit the outside handle into position on the fitting.



19. Firmly fasten the grub screw on the outside handle (TX15; torque: 5.0 Nm).



└→ Fitting is now installed.

7.10 Variant F1 (French 195 mm backplate)

7.10.1 Product-specific safety instructions

IMPORTANT

Damage caused by unsuitable tools

If you try to open the case with unsuitable tools, the case may be damaged.

Use only the supplied SimonsVoss opening tool.

Loss of the precise guidance of the handle

It may be difficult to install on mortise locks with a retaining nut.

Do not mechanically alter the locking nut. The handle would then lose its precise guidance.



NOTE

Incorrect installation

SimonsVoss Technologies GmbH accepts no liability for damage caused to doors or components due to incorrect fitting or installation.

Effect on the mortise lock

The SI.SmartHandle AX acts exclusively on the latch of the mortise lock.

Locking and insurances

Insurance companies place increased demands on a closure.

- 1. If you want to lock the door under insurance law, use a self-locking panic lock or a locking cylinder in addition to the SI.SmartHandle AX.
- 2. Pay attention to the approvals according to EN 179.

SI.SmartHandle AX with self-locking panic lock

The SI.SmartHandle AX only offers full functionality with a self-locking panic lock.

- 1. Combine the SI.SmartHandle AX with a self-locking panic lock.
- 2. Pay attention to the declarations of conformity of the lock manufacturers according to EN 179.

Conditions for authorisation security

Operation with Mifare Classic and/or PinCode keypad excludes authorisation security class D according to DIN EN 16867:2020.

Sealing escutcheon holes

Any escutcheon holes that exist may be used to manipulate the lock.

- 1. Seal any escutcheon holes with a blind cylinder, for example.
- 2. In the case of FH versions, you must be install a brass dummy cylinder or locking cylinder.

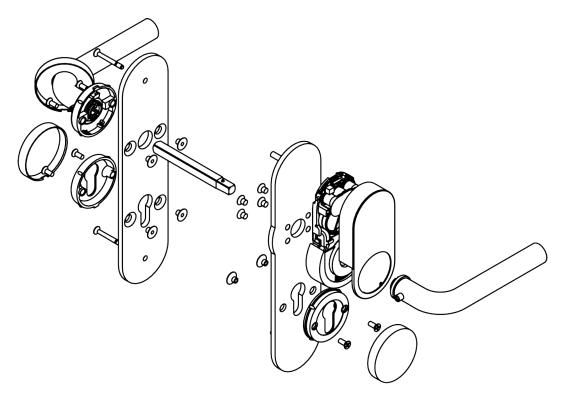
7.10.2 Scope of delivery

- SI.SmartHandle AX (Version for 195 mm French backplate)
- Special tool
- Quick guide

Depending on version:

- Adapter set, 7 mm spindle
- Adapter sleeve, 8.5 mm spindle
- Adapter sleeve, 10 mm spindle
- Blank cylinder

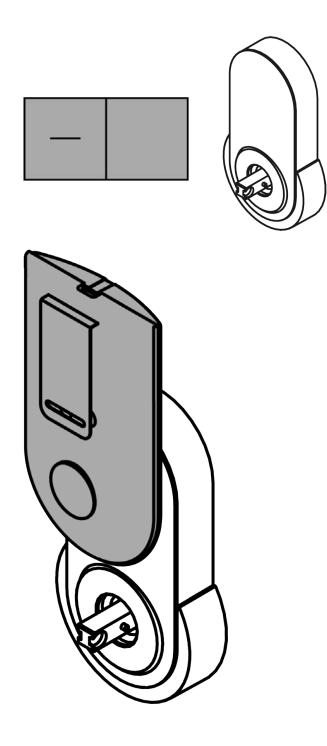
7.10.3 Design



7.10.4 Programming the fitting

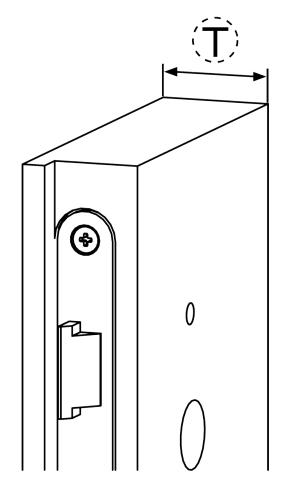
Programme the fitting before installation. You can use different programming devices, depending on the product family.

SmartIntego Digital SmartHandle AX (Manual)

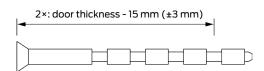


7.10.5 Installing the fitting

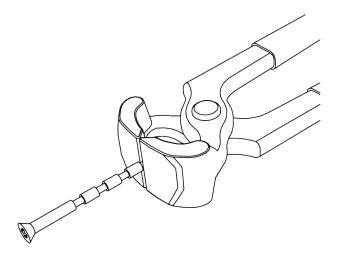
- ✓ Door pre-drilled.
- ✓ PH2 screwdriver at hand.
- ✓ TX15 screwdriver at hand.
- ✓ Vernier calliper at hand.
- ✓ Pincers at hand.
- 1. Measure the door thickness.



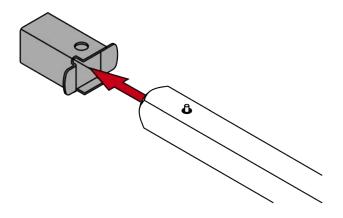
2. Determine the cutting points on the cut-to-length screws.



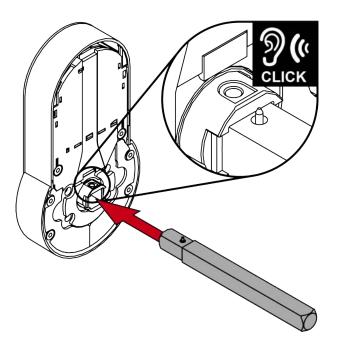
3. Trim the cut-to-length screws.



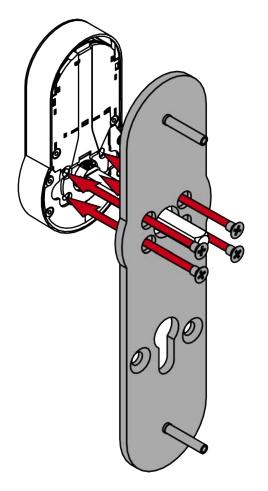
4. For 7 mm spindle: insert the adapter sleeve onto the side of the spindle with the pin.



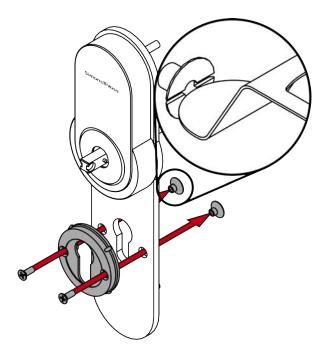
5. Insert the spindle with the pin side into the fitting.



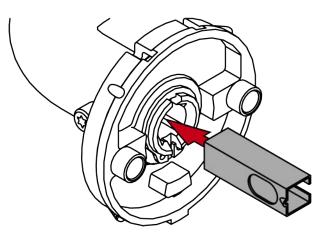
6. Screw the outer adapter plate to the fitting (PH2, torque 1.1 Nm). You can identify the outer adapter plate by the welded stud bolt nuts.



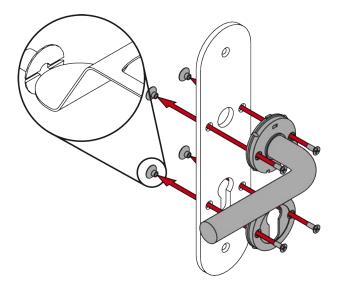
7. Hold the countersunk nuts with the special tool and screw the escutcheon base firmly to the outer adapter plate (PH2, torque 1.1 Nm).



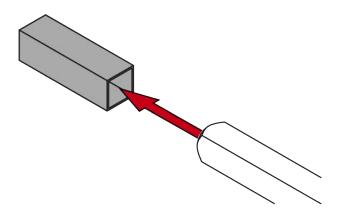
8. For 7 mm spindle: place the adapter sleeve in the inner handle in such a way that the recess faces the grub screw.

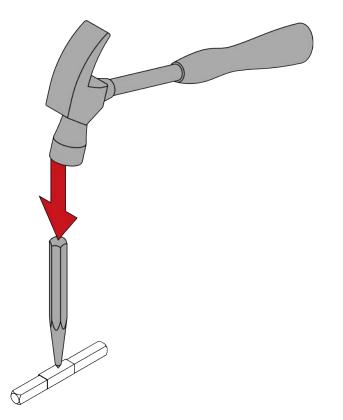


9. Hold the countersunk nuts firmly with the special tool and screw the inner handle and the escutcheon base tightly onto the inner adapter plate (PH2, torque: 1.1 Nm).

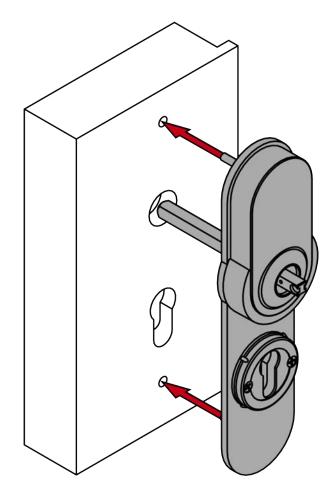


10. For 8.5 mm and 10 mm spindle: slide the adapter sleeve into the centre of the spindle. Use a punch and hammer to make an indent in the adapter sleeve to prevent it from slipping.

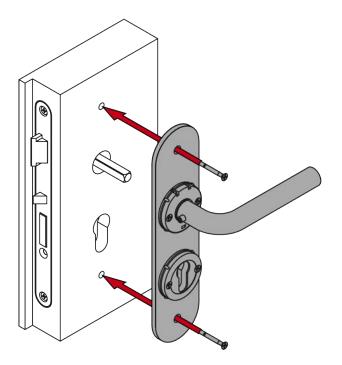




11. Insert the fitting with the adapter plate and the spindle into the door from the outside.



12. Screw the inner handle and adapter plate firmly into place (PH2, torque 1.1 Nm).



13. For FH: insert the dummy cylinder.

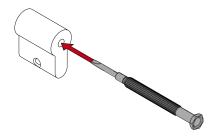


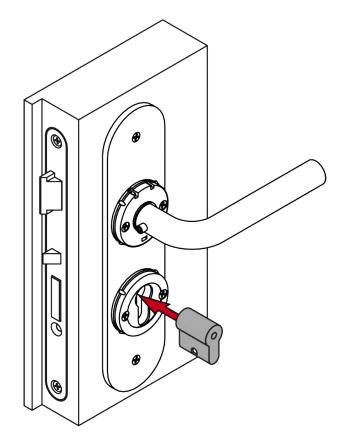
NOTE

Feed the blank cylinder into the hole using a screwdriver

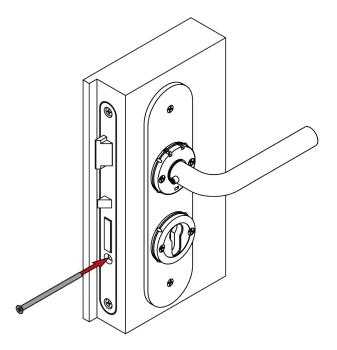
It is difficult to position the blank cylinder correctly, especially in thick doors.

- 1. Insert a screwdriver into the hole in the blank cylinder.
- 2. Position the blank cylinder using the screwdriver.

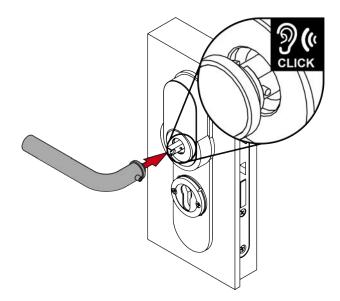




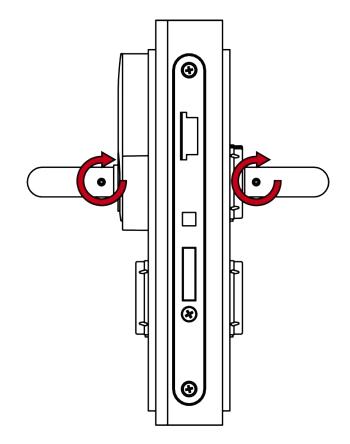
14. For FH: screw the dummy cylinder firmly into place (PH2, torque 1.1 Nm).



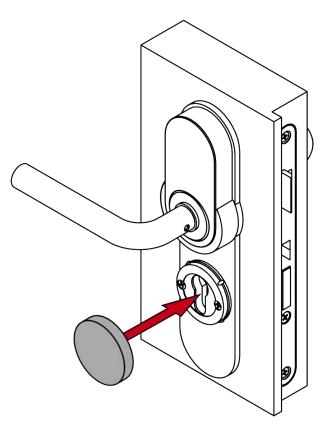
15. Fit the outside handle into position on the fitting.



16. Fasten the grub screws firmly onto both handles (TX15, torque 5.0 Nm).

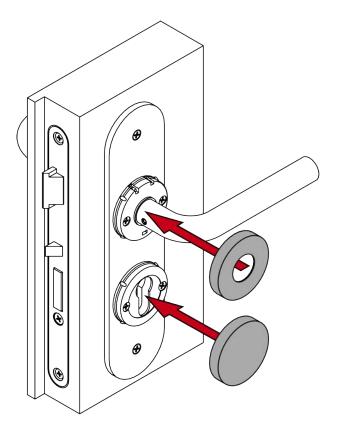


17. Place a cover with the notch facing downwards on the escutcheon base.



7. Installation 238 / 302

18. Place the two cover plates with the notch facing downwards onto the escutcheon base and the inner handle.



└→ Fitting is now installed.

7.11 LockNode (LN)

7.11.1 Information for SmartIntego users

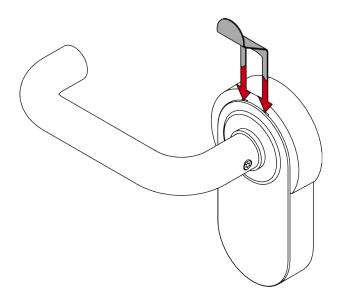
SimonsVoss recommends the following approach:

- 1. Remove the existing LockNode.
- 2. Install the new LockNode.
- 3. Open SmartIntego Manager.
- 4. Select "Replace with chip ID".
- 5. Enter the new chip ID.
- 6. Carry out programming on the SmartIntego tool.
- 7. Import into the integrator system if necessary.
- 8. Update the documentation (installation plan).

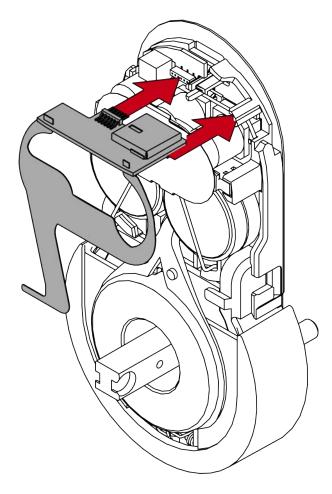
Do not use the old LockNode anymore.

7.11.2 Fitting the LockNode

- ✓ Special tool at hand.
- 1. Insert the special tool into the fitting's cover inlay.

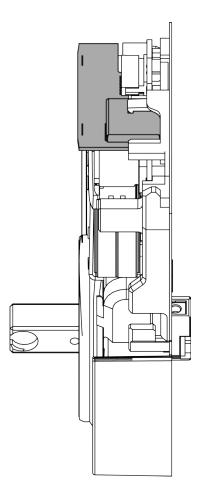


- 2. Slide the cover downwards and remove it completely.
- 3. Insert the LockNode circuit board into the slot provided.
 - → SI.SmartHandle AX will bleep and flash red four times.

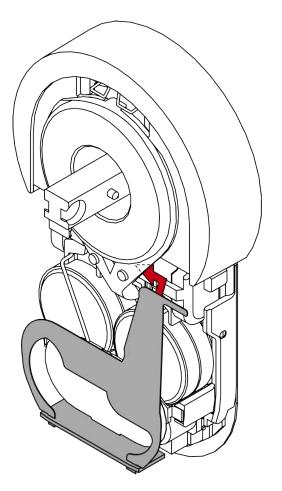


SmartIntego Digital SmartHandle AX (Manual)

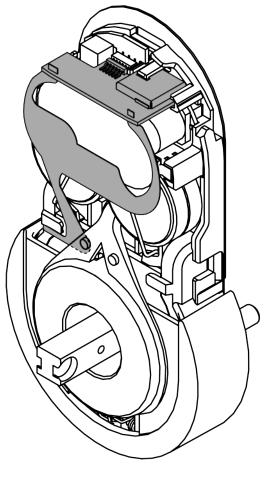
7. Installation 240 / 302



4. Insert the corner of the extension piece under the transparent plastic ring.

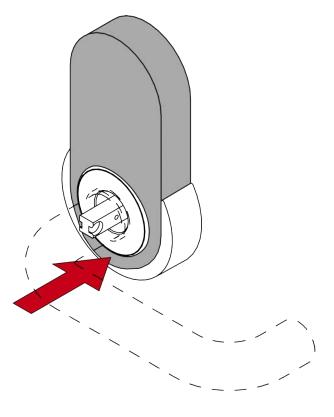


SmartIntego Digital SmartHandle AX (Manual)



5. Place the cover on the fitting.

6. Press the cover firmly until it clicks into place.



 \mapsto The LockNode is now installed.

7.12 FSB adapter

7.12.1 Scope of delivery

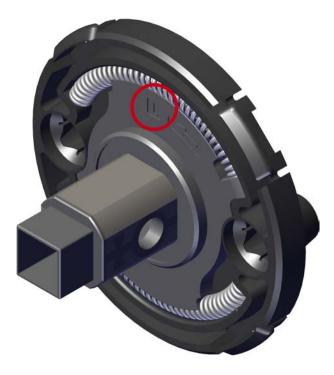


All other parts are available separately from SimonsVoss or FSB, including:

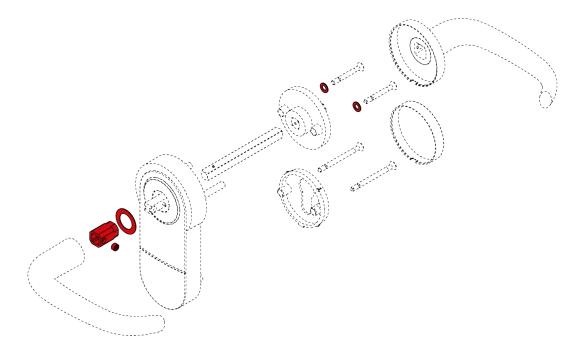
FSB bearing for the inner side

AGL bearing: Direction-dependent, the direction can be identified by an L or R marking on the outer side

- ASL bearing: direction-independent
- **FSB** handles in various designs
- **E** Rosettes and trim panels
- SI.SmartHandle AX
- FSB-AGL bearing for inner side with L marking:







7.12.3 Install FSB handle with adapter

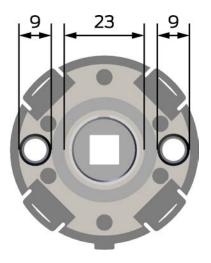
Preparation for assembly

The SI.SmartHandle AX must be dismantled to replace the outer side handle SI.SmartHandle AX (alternative: order without handle).

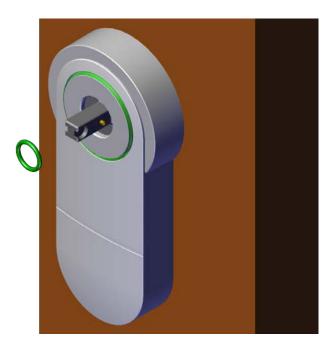
It must also be dismantled if the mounting holes in the door need to be customised.

- The support cams of the inner FSB adapter have a diameter of 9 mm; the ring on the door side has a diameter of 23 mm Depending on the door, the mounting holes must be customised accordingly.
- The screws and square spindle previously used SI.SmartHandle AX continue to be used.

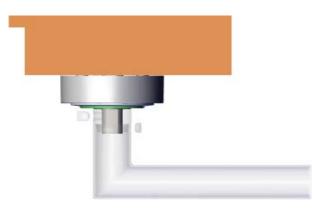
Depending on the door installation type, it may be necessary to customise the door.

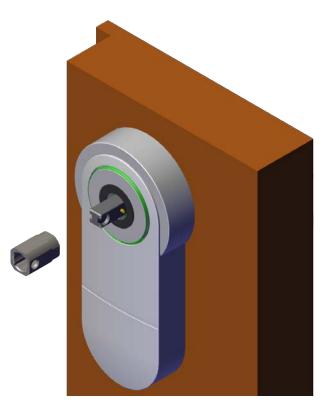


1. Remove the rubber ring from the outer square spindle of the SI.Smart-Handle AX.



- 2. Place the black plastic disc on the outer square spindle.
- 3. Align the FSB adapter so that the hole for the handle grub screw is further inwards in the direction of the door.



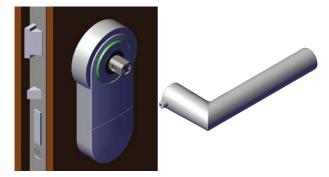


4. Mount the FSB adapter on the outer square spindle.

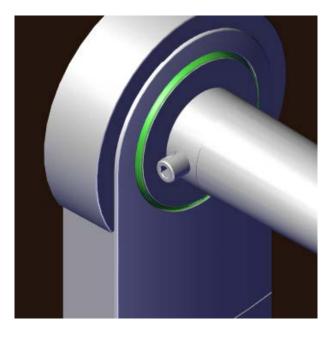
5. Tighten the FSB adapter with the short grub screw.



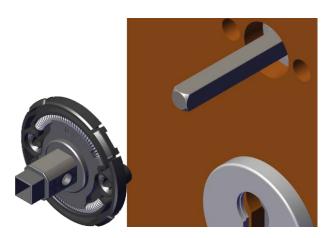
6. Place the FSB outer side handle including pre-assembled grub screw on the adapter.



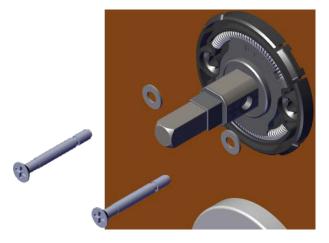
7. Fasten the half cylinder with the fastening screw.



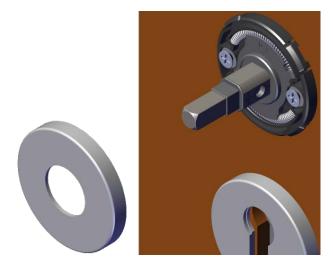
8. Push the FSB bearing onto the square spindle.



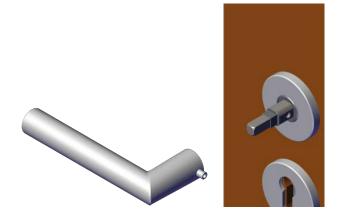
9. Fasten the FSB bearing with the previously used screws and washers. It may be necessary to customise the length of the screws.



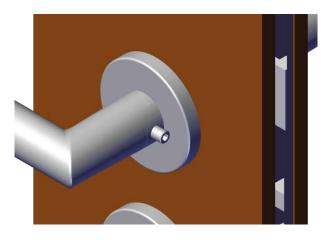
10. Place the FSB rosette cover on the FSB bearing.



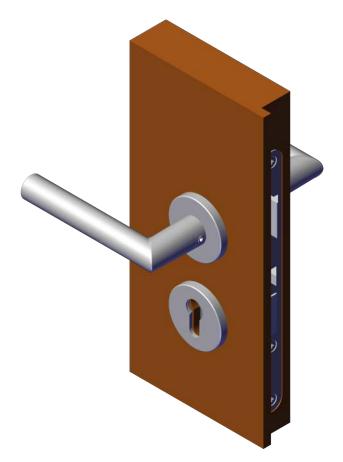
11. Place the FSB inner side handle including pre-assembled grub screw on the spindle.



12. Fasten the FSB inner side lever handle with the grub screw.



→ The SI.SmartHandle AX is supplied with an FSB handle set.



8. Programming

See TechGuide WO/SVCN.

9. Configuration

See TechGuide WO/SVCN.

10. Status messages

See TechGuide WO/SVCN.

11. Signal 254 / 302

11. Signal

See TechGuide WO/SVCN.

12. Battery warning

You or the user will be warned of a failure of the SI.SmartHandle AX by flat batteries. Replace the batteries in time (see *Battery replacement [> 256]*). The electronic part with the batteries is located on the outside. If the batteries are completely empty, you can still reach the SI.SmartHandle AX to change the batteries.

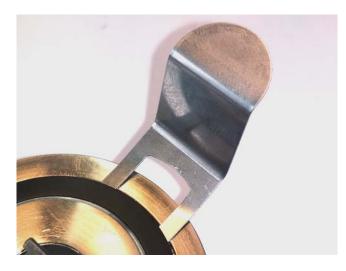
13. Battery replacement

13.1 Instructions on battery replacement

- Only specialists may replace the batteries.
- Do not touch electronics/components; do not allow them to come into contact with oil, paint, moisture, alkali or acids.
- Only use batteries approved by SimonsVoss.
- The batteries used may pose a fire or burn hazard if handled incorrectly. Do not recharge, open, heat or burn these batteries. Do not short-circuit!
- Dispose of old or used batteries correctly. Store out of children's reach.
- E Check the polarity of the batteries.
- The batteries will have discharged to roughly the same level. That is why you must replace all batteries.
- Do not touch the contacts on the new batteries with your hands when replacing the old ones. Use cotton gloves free of fat or grease.
- When replacing the batteries, make sure that no pressure is applied to the electronics or that they are not damaged in any other way.

13.2 Procedure

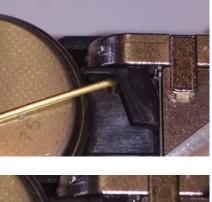
The batteries are located under the cover of the SI.SmartHandle AX. You will need the SimonsVoss installation tool to change the batteries.



- vill need the SimonsVoss installation tool to change the batteries.
 Place the SimonsVoss installation tool in the recesses provided in the
- cover. These are located on the side facing away from the electronics.

- 2. Push the SimonsVoss mounting tool into the recesses until the cover pops out.
- 3. Pull the cover downwards until it clicks loose.
- 4. Remove the cover.

5. Press the end of the battery clip inwards until it pops out.





IMPORTANT

Loss of the battery clip

The battery clip is plugged in. If both ends of the clip are pushed inwards and released from the holder at the same time, the battery clip may fall out.

- 1. Change one side first, then the other.
- 2. Do not open both ends of the battery clip at the same time.



- 6. Remove the batteries.
- 7. Insert new batteries.
- 8. Slide the end of the battery clip back in.
- 9. Push the end of the battery clip down.
- 10. Slide the end of the battery clip into the holders provided.
- 11. Do the same with the other side.

- 12. Slide the cover back onto the SI.SmartHandle AX.
- 13. Press the cover firmly in the area of the recesses for the mounting tool until it snaps into place.
 - → Sabotage contact in the cover triggers battery measurement.
- \mapsto Batteries are replaced.

14. Maintenance, cleaning and disinfection

- If necessary, clean the SI.SmartHandle AX with a soft and, if necessary, damp cloth.
- When disinfecting the SI.SmartHandle AX, only use agents that are expressly intended for disinfecting sensitive metal or plastic surfaces.
- If necessary, change the battery.

15. Disassembly

You will also find information on disassembly in the supplied quick guides.

15.1 Variante A0 (Standing/PAS24)

The following tools are required for disassembly:

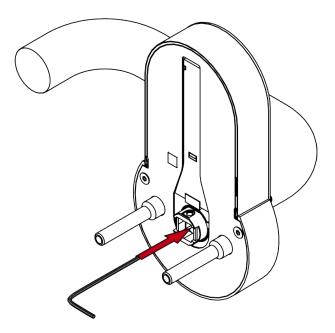
- TX-15 screwdriver
- Slotted-head screwdriver
- PH-2 screwdriver
- 1.5 mm hex key

Remove escutcheons

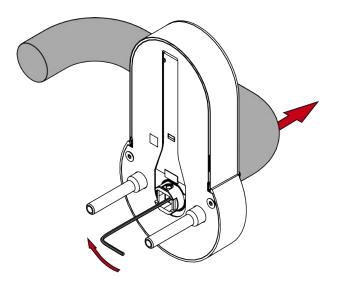
- 1. Disassemble electronic cylinders if necessary.
- 2. Unscrew the headless screws of both handles.
- 3. If necessary, remove the escutcheon covers with a slotted screwdriver.
- 4. If necessary, remove the escutcheon covers.
- 5. If necessary, unscrew the escutcheon bases.
- 6. Remove the inlay of the inside handle with a slotted screwdriver.
- 7. Unscrew the screws of the base of the inside handle.
- 8. Remove the inside handle.
- 9. Pull out the assembly with the square.
 - \rightarrow SI.SmartHandle AX is removed from the door.
- 10. Push the locking pin of the square inward and pull the square out of the assembly.
 - \mapsto The square is removed.

Remove handle from assembly

1. Insert the hex key into the hole provided in the square socket.



- 2. Push the hex key towards the closest edge and hold it down.
- 3. Pull the handle off the assembly.



└→ SI.SmartHandle AX is now removed.

15.2 Variant A1/A2 (suspended short/long)

The following tools are required for disassembly:

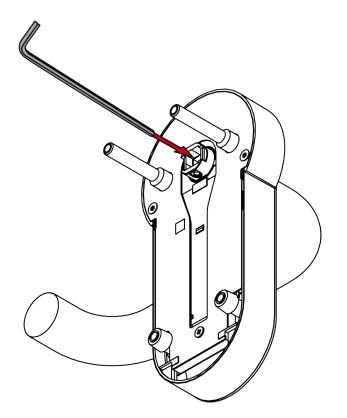
- TX-15 screwdriver
- Slotted-head screwdriver
- PH-2 screwdriver
- I.5 mm hex key

Remove escutcheons

- 1. Disassemble electronic cylinders if necessary.
- 2. Unscrew the headless screws of both handles.
- 3. If necessary, remove the escutcheon covers with a slotted screwdriver.
- 4. If necessary, remove the escutcheon covers.
- 5. If necessary, unscrew the escutcheon bases.
- 6. Remove the inlay of the inside handle with a slotted screwdriver.
- 7. Unscrew the screws of the base of the inside handle.
- 8. Remove the inside handle.
- 9. Pull out the assembly with the square.
 - └→ SI.SmartHandle AX is removed from the door.
- 10. Push the locking pin of the square inward and pull the square out of the assembly.
 - \mapsto The square is removed.

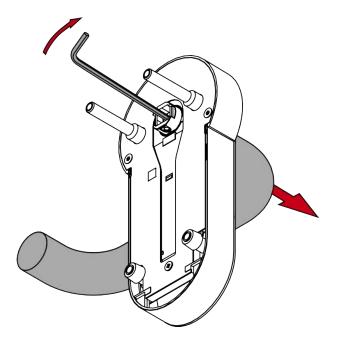
Remove handle from assembly

1. Insert the hex key into the hole provided in the square socket.



2. Push the hex key towards the closest edge and hold it down.

3. Pull the handle off the assembly.



→ SI.SmartHandle AX is now removed.

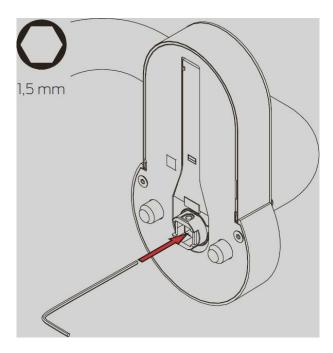
15.3 Variant A3 (steel frame)

Remove fittings

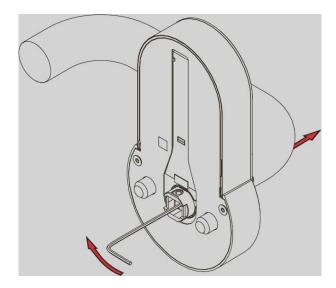
- 1. Disassemble electronic cylinders if necessary.
- 2. Unscrew the headless screws of both handles.
- 3. If necessary, remove the escutcheon covers with a slotted screwdriver.
- 4. If necessary, remove the escutcheon covers.
- 5. If necessary, unscrew the escutcheon bases.
- 6. Remove the inlay of the inside handle with a slotted screwdriver.
- 7. Unscrew the screws of the base of the inside handle.
- 8. Remove the inside handle.
- 9. Take off the cover.
- 10. Unscrew the small screw at the round end.
- 11. Slide the assembly upwards.
- 12. Pull the assembly with the square end out of the adapter plate.
- 13. Unscrew the adapter plate.
 - → SI.SmartHandle AX is removed from the door.
- 14. Push the locking pin of the square inward and pull the square out of the assembly.

Removing the handle from the assembly

1. Insert the Allen wrench into the hole provided in the square socket.



2. Push the Allen wrench towards the nearer edge and hold it pressed.



- 3. Remove the handle from the assembly.
- └→ SI.SmartHandle AX is disassembled.

15.4 Variant A4 (Panic bar)

15.4.1 BKS

Remove fittings

1. Remove the panic bar as described in the manufacturer's documentation except for the adapter plate.

NOTE

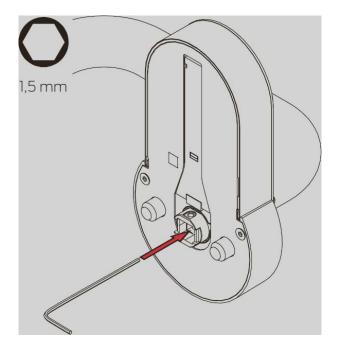
Third party product with own documentation

The panic bar holder is a third-party product.

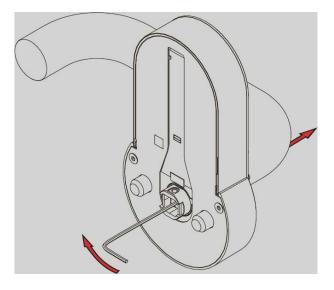
- Please follow the manufacturer's instructions and safety instructions.
- 2. Remove the covers of the escutcheons with a slotted screwdriver.
- 3. Unscrew the screws of the escutcheon bases.
- 4. Unscrew the screws of the mounting plate.
- 5. Pull out the fitting with the adapter plate and the square.
 → SI.SmartHandle AX is removed from the door.
- 6. Unscrew the screws that fix the SI.SmartHandle AX to the adapter plate.
 - \mapsto Adapter plate is removed.
- 7. Push the locking pin of the square inward and pull the square out of the assembly.
 - \mapsto The square is removed.

Removing the handle from the assembly

1. Insert the Allen wrench into the hole provided in the square socket.



2. Push the Allen wrench towards the nearer edge and hold it pressed.



- 3. Remove the handle from the assembly.
- → SI.SmartHandle AX is disassembled.

15.4.2 CISA

1. Remove the panic bar as described in the manufacturer's documentation except for the adapter plate.



NOTE

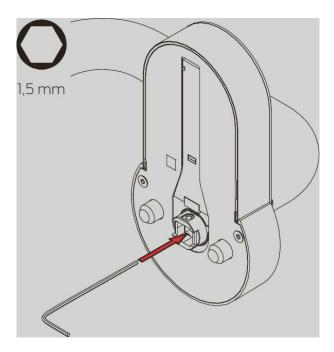
Third party product with own documentation

The panic bar holder is a third-party product.

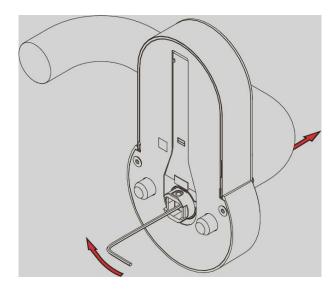
- Please follow the manufacturer's instructions and safety instructions.
- 2. Unscrew the screws of the mounting plate.
- 3. Pull out the fitting with the adapter plate and the square.→ SI.SmartHandle AX is removed from the door.
- 4. Unscrew the screws that fix the SI.SmartHandle AX to the adapter plate.
 - └→ Adapter plate is removed.
- 5. Push the locking pin of the square inward and pull the square out of the assembly.
 - \mapsto The square is removed.

Removing the handle from the assembly

1. Insert the Allen wrench into the hole provided in the square socket.



2. Push the Allen wrench towards the nearer edge and hold it pressed.



- 3. Remove the handle from the assembly.
- → SI.SmartHandle AX is disassembled.

15.5 DS variant (reader on both sides)

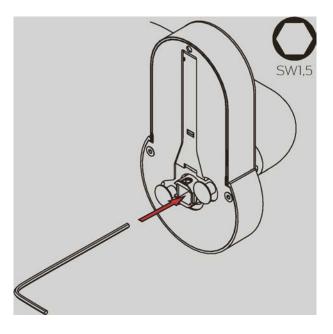
Remove fittings

- 1. Disassemble electronic cylinders if necessary.
- 2. Unscrew the set screws of both handles.
- 3. If necessary, remove the escutcheon covers with a slotted screwdriver.
- 4. If necessary, remove the escutcheon covers.

- 5. If necessary, unscrew the escutcheon bases.
- 6. Remove the cover of the SmartHandles AX that is attached to the adapter plate.
- 7. Unscrew the screw above the card reader.
- 8. Turn the entire SmartHandle AX clockwise until it can be removed.
- 9. Remove the SmartHandle AX.
- 10. Unscrew the adapter plate.
- 11. Pull out the second SmartHandle AX.
 - → SI.SmartHandle AX are removed from the door.
- 12. Push the locking pin of the square inward and pull the square out of the assembly.

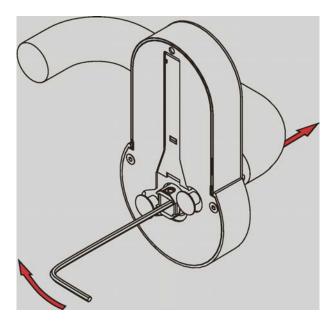
Removing the handle from the assembly

1. Insert the Allen wrench into the hole provided in the square socket.



2. Push the Allen wrench towards the nearer edge and hold it pressed.

3. Remove the handle from the assembly.



→ SI.SmartHandle AX is disassembled.

15.6 Variant EO and E1 (Scandinavian Oval)

You need the following tools for disassembly:

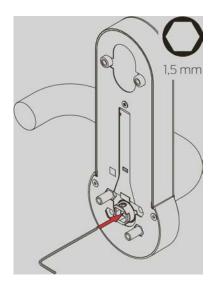
- TX-15 screwdriver
- Slotted-head screwdriver
- PH-2 screwdriver
- 1.5 mm hex key

Remove fittings

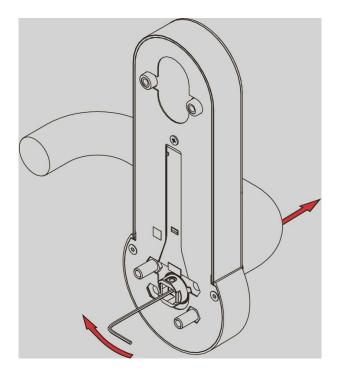
- 1. Disassemble electronic cylinders if necessary.
- 2. Unscrew the headless screws of both handles.
- 3. If necessary, remove the escutcheon covers with a slotted screwdriver.
- 4. If necessary, remove the escutcheon covers.
- 5. If necessary, unscrew the escutcheon bases.
- 6. Remove the inlay of the inside handle with a slotted screwdriver.
- 7. Unscrew the screws of the base of the inside handle.
- 8. Remove the inside handle.
- 9. Pull out the assembly with the square.
 - → SI.SmartHandle AX is removed from the door.
- 10. Push the locking pin of the square inward and pull the square out of the assembly.
 - \mapsto The square is removed.

Removing the handle from the assembly

1. Insert the Allen wrench into the hole provided in the square socket.



2. Push the Allen wrench towards the nearer edge and hold it pressed.



- 3. Remove the handle from the assembly.
- → SI.SmartHandle AX is disassembled.

15.7 Variant F1 (French 195 mm backplate)

The following tools are required for disassembly:

- TX-15 screwdriver
- Slotted-head screwdriver
- PH-2 screwdriver

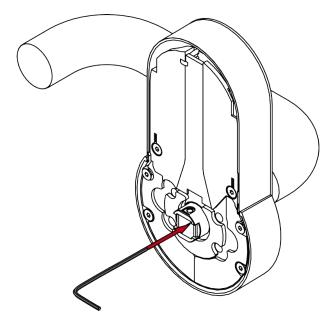
1.5 mm hex key

Remove escutcheons

- 1. If necessary, remove the electronic cylinder.
- 2. Use the grub screws to tighten both handle.
- 3. If necessary, lever off the rosette covers with a flat-blade screwdriver.
- 4. If necessary, remove the rosette covers.
- 5. Use a flat screwdriver to pry off the inlay on the inner side of the lever handle.
- 6. Unscrew the adapter plate fastening screws on the inner side.
- 7. Remove the inner side handle together with the adapter plate from the spindle.
- 8. Unplug the electronic escutcheon together with the adapter plate and remove it from the door.
 - → SI.SmartHandle AX is removed from the door.
- 9. Unscrew the inner side handle and the profile cylinder rosette from the inner adapter plate.
- 10. Unscrew the electronic connector and the profile cylinder rosette from the outer adapter plate.
- 11. Push the locking pin of the square inward and pull the square out of the assembly.
 - \mapsto The square is removed.

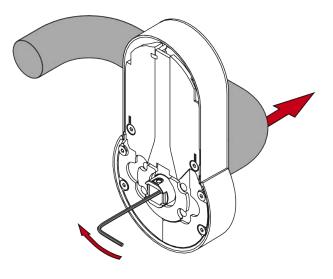
Remove handle from assembly

1. Insert the hex key into the hole provided in the square socket.



2. Push the hex key towards the closest edge and hold it down.

3. Pull the handle off the assembly.



→ SI.SmartHandle AX is now removed.

16. Accessories

Third-party handle adapter

Order code	Description	Compatibility
S2.ADAPTER.FSB	Adapter set for FSB handle (<i>www.FSB.de</i>) from FSB model year 2018 Wore information; see <i>FSB adapter [> 243].</i>	All FSB models from 2018 onwards equipped with one of the following mount- ings: Standard (FSB ASL®) Object (FSB AGL®)
S2.ADAPTER.GLUTZ	Adapter set for Glutz handle (<i>www.glutz.com</i>)	 5083 Tulln Others on request/ after qualification.

Handle and square spindle

Order code	Description
	Inner side and outer side handle for retrofitting (see <i>Handle variants</i> [• 18]).
	Please specify variant:
	# A
	: 0
	# C
S2.LEVER.x.x	II D
	II L
	Please specify square spindle (see <i>Spindle [• 17]</i>):
	# 7 mm
	# 8 mm
	# 9 mm

Order code	Description
	Please specify length of square spindle (see <i>Distances and door thicknesses [</i> 15]):
	S S
	■ M
	: L
S2.SQUARE.x.x	# X
	Please specify diameter (see <i>Spindle [+ 17]</i>):
	■ 7 mm
	■ 8 mm
	■ 9 mm
SH.HUELSE.8.5	Extension sleeve from 8 mm to 8.5 mm length (10 pieces)

Cover

Black-grey	White	Deep black
	Einens Histor	

Order code	Description
S2.COVER.0.SG	Cover for variant A0/B0 (standing), RR (tubular frame) and DS (both sides) in black-grey
S2.COVER.0.W	Cover for variant A0/B0 (standing), RR (tubular frame) and DS (both sides) in white
S2.COVER.0.TS	Cover for variant A0/B0 (standing), RR (tubular frame) and DS (both sides) in deep black
S2.COVER.1.SG	Cover for variant A1/B1 (suspended short) in black-grey

Order code	Description
S2.COVER.1.W	Cover for variant A1/B1 (suspended short) in white
S2.COVER.1.TS	Cover for variant A1/B1 (suspended short) in deep black
S2.COVER.2.SG	Cover for variant A2/B2 (suspended long) in black-grey
S2.COVER.2.W	Cover for variant A2/B2 (suspended long) in white
S2.COVER.2.TS	Cover for variant A2/B2 (suspended long) in deep black
S2.COVER.E0.SG	Cover for variant E0 (Scandinavian Oval without locking cylinder break- out) in black-grey
S2.COVER.E0.W	Cover for variant E0 (Scandinavian Oval without locking cylinder break- out) in white
S2.COVER.E0.TS	Cover for variant E0 (Scandinavian Oval without locking cylinder break- out) in deep black
S2.COVER.E1.SG	Cover for variant E1 (Scandinavian Oval with locking cylinder break- out) in black-grey
S2.COVER.E1.W	Cover for variant E1 (Scandinavian Oval with locking cylinder break- out) in white
S2.COVER.E1.TS	Cover for variant E1 (Scandinavian Oval with locking cylinder break- out) in deep black

Small parts

Order code	Description
S2.SLEEVENUT	Sleeve nut for rosette (pack of 50

Order code	Description
S2.SCREW.x	Screw set, please specify length (see <i>Distances and door thick-</i> <i>nesses</i> [• 15]):
	■ S
	# M
	₽ L
	# X
S2.COMPSHELL	Equalising bushes for variants A0/ B0 (10 bags with 2x3 pieces each in three different lengths)

Rosette

Order code	Description
S2.ROSE	Rosette cover without locking cylin- der opening, for retrofit
S2.ROSEPZ	Rosette cover with locking cylinder opening for Euro Profile cylinder; for retrofit
S2.ROSESO	Rosette cover with locking cylinder opening for Scandinavian Oval; for retrofit

Blank cylinder

Order code	Description
DUMMY CYLINDER.PZ	Dummy cylinder (15-15 mm) to fill the locking cylinder opening (Euro profile cylinder)
DUMMY CYLINDER.SR	Dummy cylinder (15-15 mm) to fill the locking cylinder opening (Swiss Round cylinder)

17. Technical specifications

Types	Euro Profile cylinder	
	Scandinavian Oval	
	Swiss Round	
	Passive	
Read systems	BLE ready	
	HIFARE® Classic	
	MIFARE DESFire® EV1/EV2	
Supported cards (Wireless Online WO)	 UID (card serial number) according to ISO 14443 (e.g. MIFARE, Legic Advant, HID® SEOS) 	
Supported cards (SmartIntego Virtual	II MIFARE® Classic	
Card Network SVCN)	MIFARE DESFire® EV1/EV2	
Reading ranges	Near field	
Power supply		
Battery type	4× CR2450 (3 V)	
	👪 Murata	
Battery manufacturer	■ Varta	
	Panasonic	
	■ Up to 180,000 activations	
Battery life (Wireless Online WO)	 Up to 9 years stand-by without operation 	
Rattony life (Smartlatogo Virtual Card	■ Up to 150,000 activations	
Battery life (SmartIntego Virtual Card Network SVCN)	 Up to 9 years stand-by without operation 	
Ambient conditions		
	Operational: -25 °C to +50 °C	
Temperature range	In storage (temporary): -40 °C to +50 °C	
	In storage (long-term): 0 °C to +30 °C	
Protection rating	IP40	
Feedback		
Signalling	Acoustic (beeper)	
JISHALLIN	Optical (two-colour LED)	

Administration and settings		
Networking capability	 Wireless Online (WO): Integrated LockNode (LNI) 	
	SmartIntego Virtual Card Network (SVCN): Not network-compatible	
Other information		
Can be upgraded	Upgradeable firmware	
Entrys in the access list	Max. 1,000	

17.1 Mechanical system

Dimensions

The dimensions refer to the side with the electronic escutcheon.

	1	
	A0 (standing)	
	👪 A3 (tubular frame)	120 mm
	DS (reader on both sides)	
	A1 (suspended, short)	140 mm
Height	 A2 (suspended, long) E0/E1 (Scandinavian Oval) 	174 mm
	A4 (panic bar)	 BKS (distance: 72 mm): 193.4 mm
		 BKS (distance: 92 mm): 213.4 mm
		 CISA (distance: 72 mm): 224.4 mm
		(information with ad- apter plate)
Width	66 mm	

[
Depth	A0 (standing)	
	 A1 (suspended, short) 	
	 A2 (suspended, long) 	21 mm
	E0/E1 (Scandinavian Oval)	
	A3 (tubular frame)	26 mm
		(information with ad- apter plate)
	A4 (panic bar)	25 mm
		(information with ad- apter plate)
	DS (reader on both sides)	 21 mm (side without adapter plate)
		26 mm (side with adapter plate

You will find detailed dimension drawings at the end of the section.

Centres distances and door thicknesses

A* = Euro Profile, B* =	Swiss Round, E* =	Scandinavian Oval
-------------------------	-------------------	-------------------

Versions	Centre distance	Door thickness
A0/B0 Stationary	not relevant (standing installation: handle shaft axis and profile cylinder axis not con- nected to the escut- cheon)	S: 38 - 60 mm
		M: 59 - 80 mm
		L: 79 - 100 mm
		X: 100 - 200 mm
not relevant (standing	S: 38 - 60 mm	
A0.PAS		M: 59 - 80 mm
Standing (PAS24)		L: 79 - 100 mm

Versions	Centre distance	Door thickness
A1/B1 Suspended, short	70 - 79 mm	S: 38 - 60 mm
		M: 59 - 80 mm
		L: 79 - 100 mm
		X: 100 - 200 mm
		S: 38 - 60 mm
A2/B2	70 - 110 mm	M: 59 - 80 mm
Suspended, long		L: 79 - 100 mm
		X: 100 - 200 mm
	not relevant (standing	S: 38 - 57 mm
A3	installation: handle shaft axis and profile	M: 58 - 77 mm
Metal frame	cylinder axis not con-	L: 78 - 97 mm
	nected to the escut- cheon)	X: 97 - 196 mm
	92 mm (BKS Full-leaf	S: 38 - 60 mm
	door, without back- plate)	M: 59 - 80 mm
A4	72 mm (CISA Solid Door with backplate or BKS Solid Door without backplate)	L: 79 - 100 mm
Panic bar		X: 100 - 200 mm
	not relevant (standing	S: 38 - 58 mm
DS	installation: handle shaft axis and profile	M: 59 - 78 mm
Double-sided scanning	cylinder axis not con-	L: 79 - 99 mm
(Double-sided)	nected to the escut- cheon)	X: 100 - 200 mm
		S: 38 - 60 mm
E0, E1	105 mm	M: 59 - 80 mm
Scandinavian Oval	105 mm	L: 79 - 100 mm
		X: 100 - 200 mm
F1	70 mm	S: 38 - 60 mm
French 195 mm back- plate		M: 58 - 80 mm
		L: 78 - 100 mm

Handle turning angle and colours

Handle turning angle		48° effective	
Cover Colours Rosette Handle	Cover	 Traffic white (similar to RAL 9016) 	
		Dark grey (similar to RAL 7021)	
		 Deep black (similar to RAL 9005) 	
		Brass	
		For cover colours, see also <i>Surface finishes [•</i> 19]	
	Rosette	Brushed nickel, coated	
		Brushed brass, coated	
	Handle	Brushed stainless steel, painted	
		Brushed brass, coated	

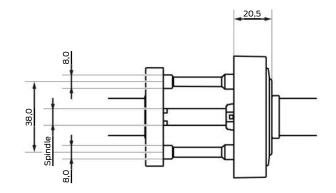
17.1.1 Dimensional drawings SmartHandle AX

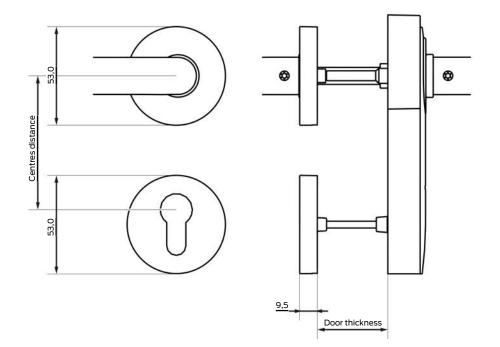


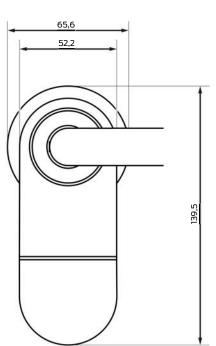
NOTE

Height depends on the variant (see table).

Suspended installation

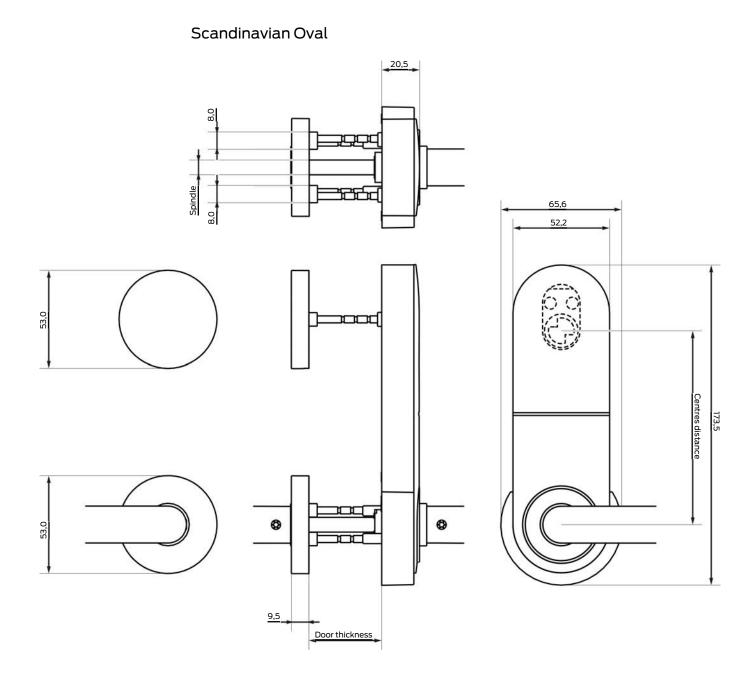




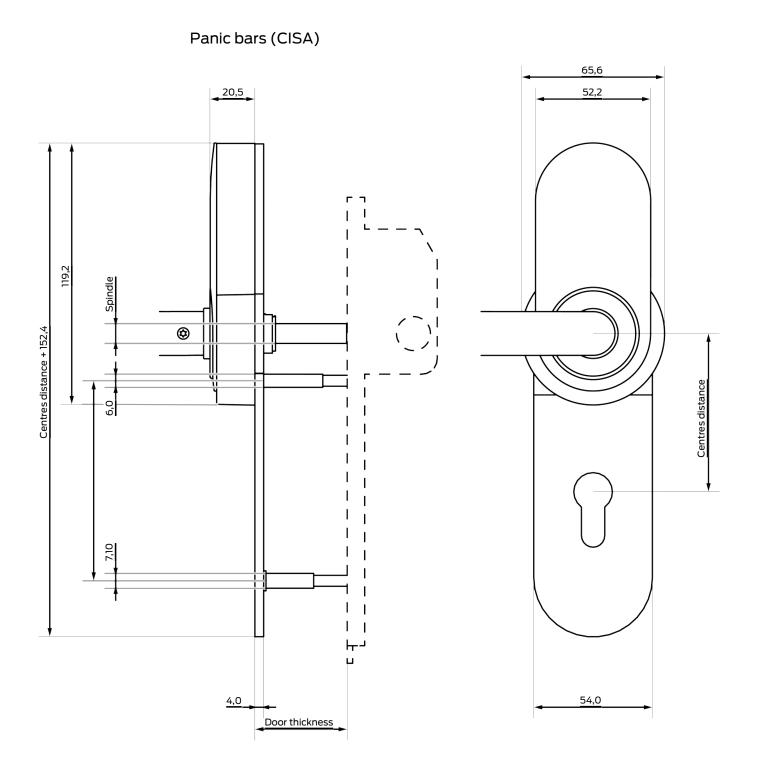


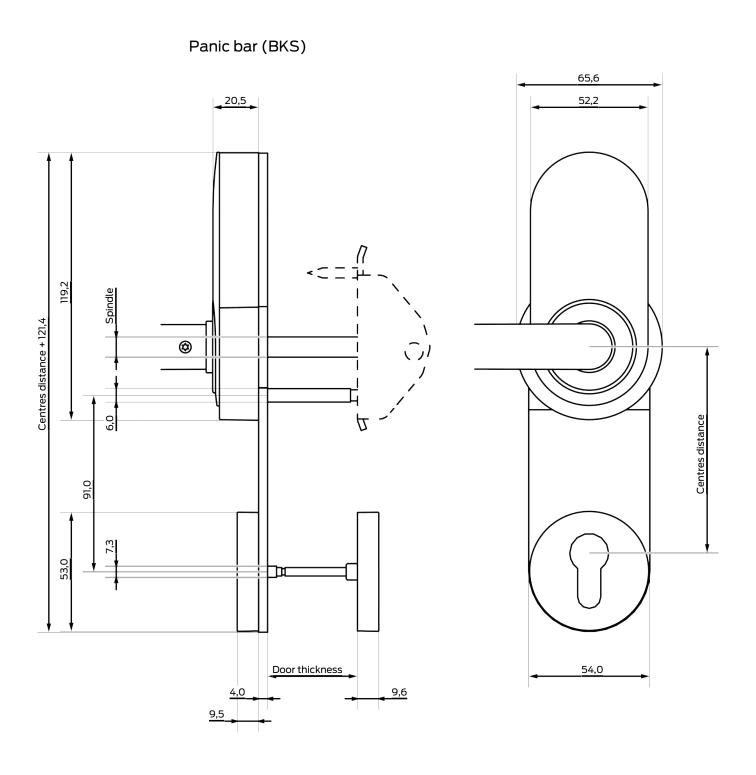
Stationary installation 8,0 38,0 Spindle 1 65,6 53,2 8,0 119,2 ٩ 0 Centres distance 53,0 9,5 9,5

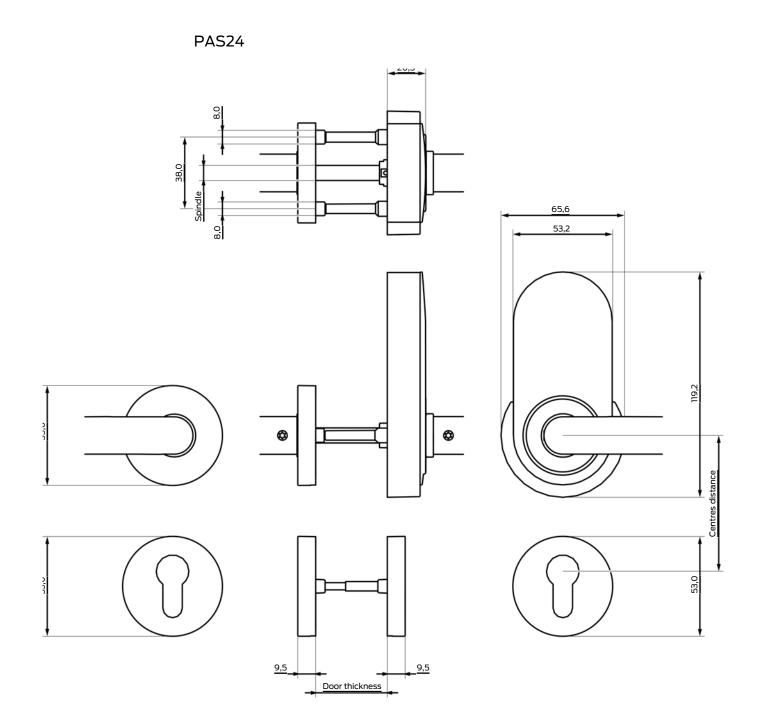
Door thickness



Metal frame 20,5 13,5 5,0 33,4 ſ ſ Spindle 65,6 52,2 33,4 119,2 Г 50,0 69,9 ٢ ٢ ſ Centres distance 50,0 69,5 69,5 32,8 7,0 7,0 32,8 Door thickness

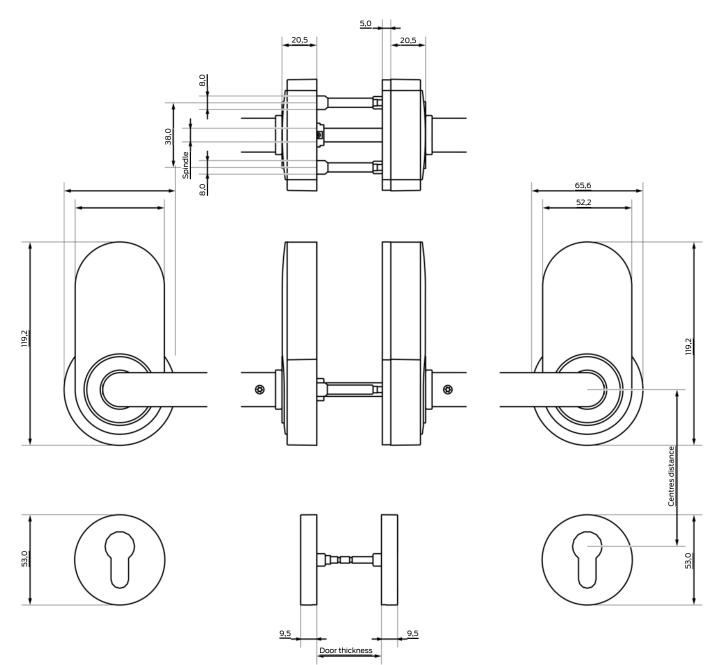




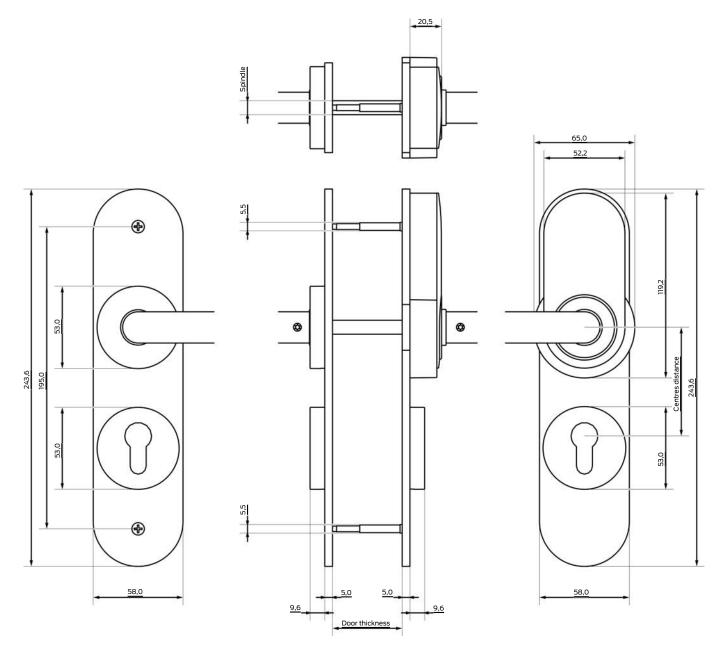


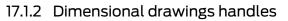
SmartIntego Digital SmartHandle AX (Manual)

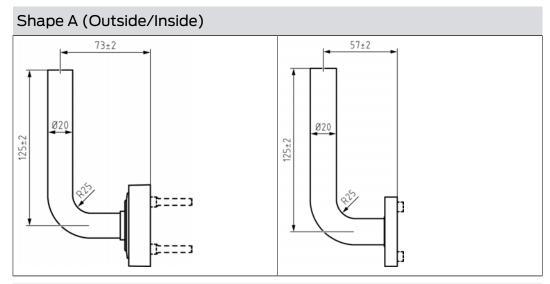
Reader on both sides



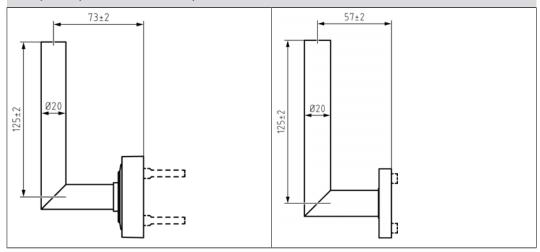
French 195 mm backplate

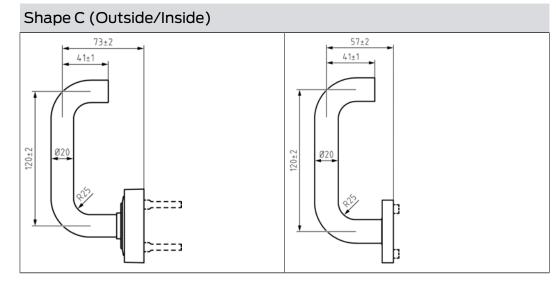


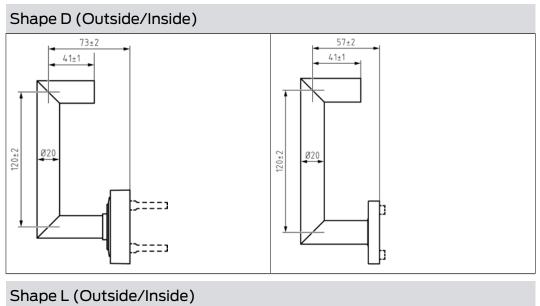


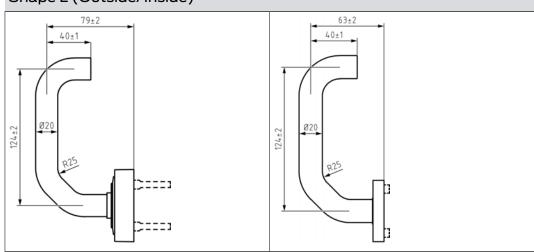


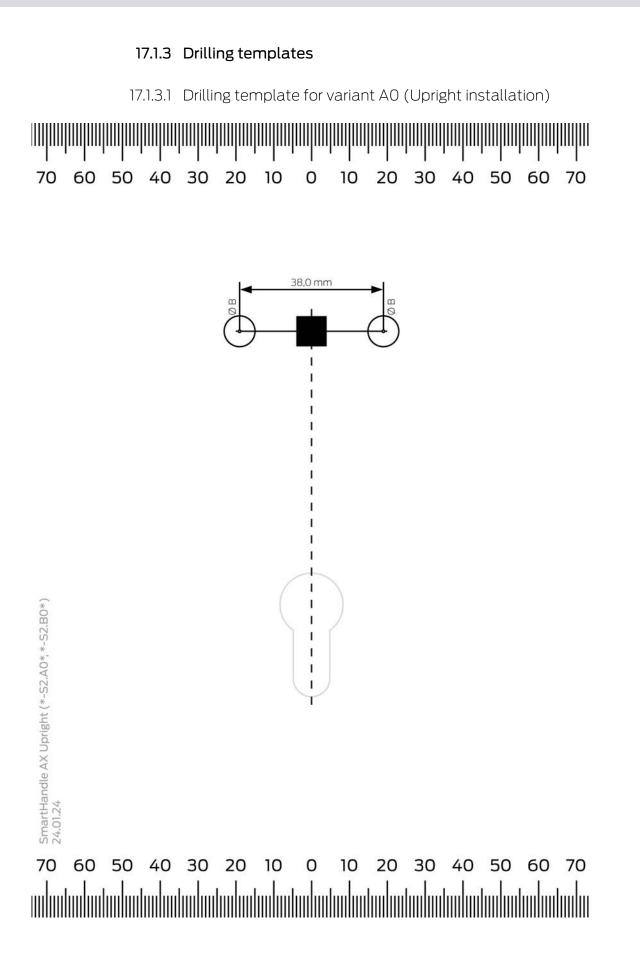
Shape B (Outside/Inside)

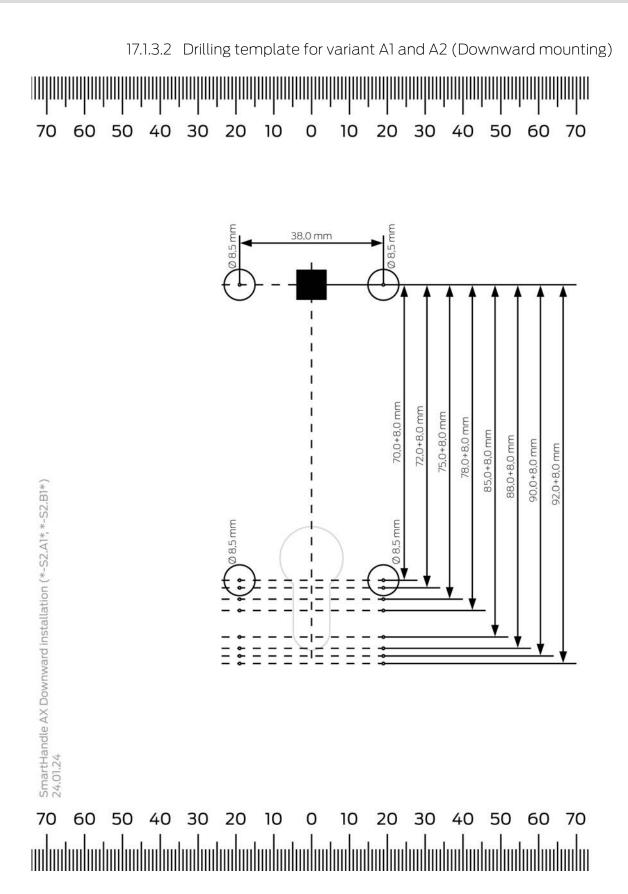


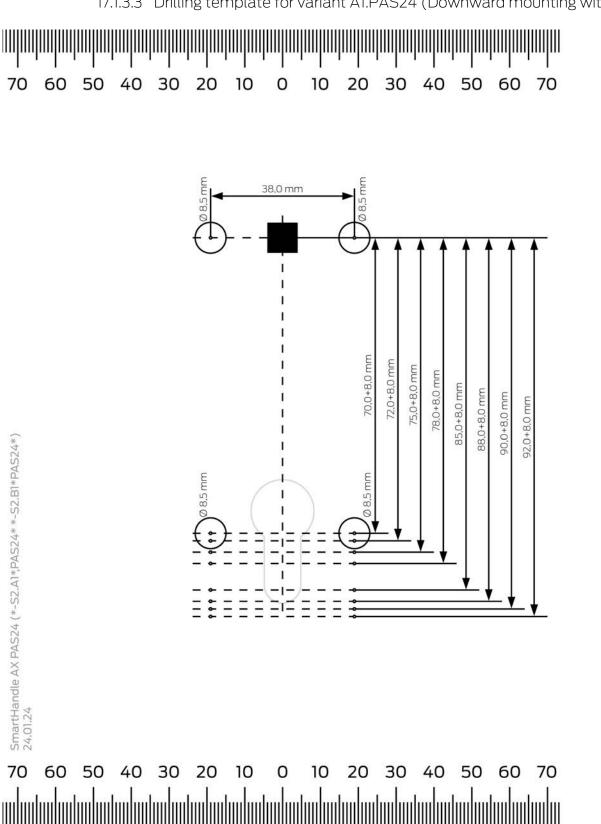




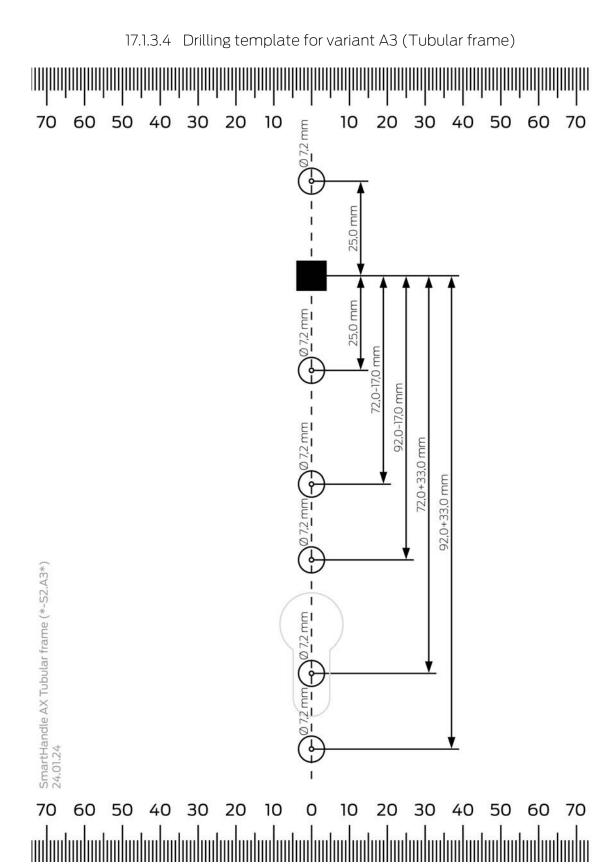


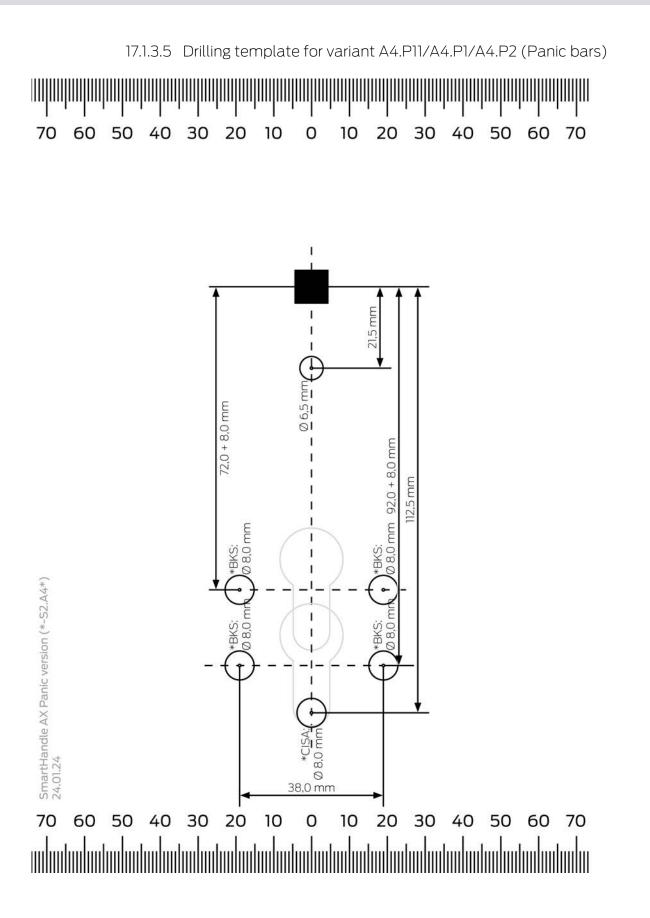


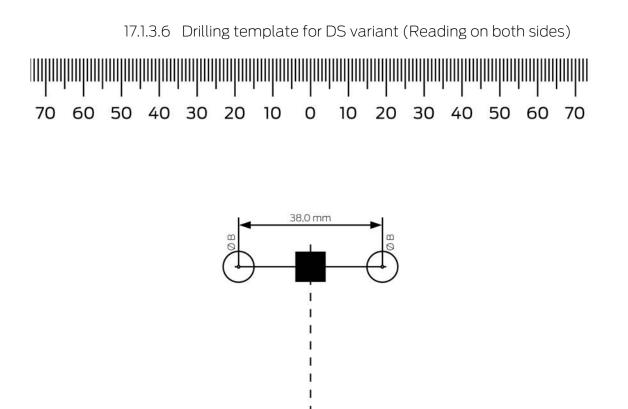




17.1.3.3 Drilling template for variant A1.PAS24 (Downward mounting with PAS24)







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OL SmartHandle AX Double-sided (*-S2.A0*DS*) 25.01.24

18. Declaration of conformity

The company SimonsVoss Technologies GmbH hereby declares that the articles (SI-S2.*M.WO*, SI-S2.*M.VCN*) comply with the following guidelines:

- 2014/53/EU -REDor for the UK: UK statutory 2017 No. 1206 -Radio equipment-
- 2011/65/EU -RoHSor for the UK: UK statutory 2012 No. 3032 -RoHS-

C E CA

The full text of the EU Declaration of conformity is available at the following internet address: *www.simons-voss.com/en/certificates.html*. The full text of the UK Declaration of conformity is available at the following internet address: *www.simons-voss.com/en/certificates.html*.

19. Help and other information

Information material/documents

You will find detailed information on operation and configuration and other documents on the website:

https://www.smartintego.com/int/home/infocenter/documentation

Declarations of conformity

You will find declarations of conformity and other certificates on the website:

https://www.simons-voss.com/en/certificates.html

Information on disposal

- Do not dispose the device (SI-S2.*M.WO*, SI-S2.*M.VCN*) in the household waste. Dispose of it at a collection point for electronic waste as per European Directive 2012/19/EU.
- Recycle defective or used batteries in line with European Directive 2006/66/EC.
- Observe local regulations on separate disposal of batteries.
- **T**ake the packaging to an environmentally responsible recycling point.



Technical support

Our technical support will be happy to help you (landline, costs depend on provider):

+49 (0) 89 / 99 228 333

Email

You may prefer to send us an email.

si-support-simonsvoss@allegion.com

FAQs

You will find information and help in the FAQ section:

https://faq.simons-voss.com/otrs/public.pl

Address

SimonsVoss Technologies GmbH Feringastr. 4 D-85774 Unterfoehring Germany



This is SimonsVoss

SimonsVoss, the pioneer in remote-controlled, cable-free locking technology provides system solutions with a wide range of products for SOHOs, SMEs, major companies and public institutions. SimonsVoss locking systems combine intelligent functionality, high quality and awardwinning design Made in Germany.

As an innovative system provider, SimonsVoss focuses on scalable systems, high security, reliable components, powerful software and simple operation. As such, SimonsVoss is regarded as a technology leader in digital locking systems.

Our commercial success lies in the courage to innovate, sustainable thinking and action, and heartfelt appreciation of employees and partners.

SimonsVoss is a company in the ALLEGION Group, a globally active network in the security sector. Allegion is represented in around 130 countries worldwide (www.allegion.com).

Made in Germany

SimonsVoss is truly committed to Germany as a manufacturing location: all products are developed and produced exclusively in Germany.

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