

1	Information about this document	1
1.1	Contents and purpose	1
1.2	Target group	1
1.3	Other applicable documents	1
1.4	Abbreviations	1
1.5	Symbols used	1
2	Safety	2
2.1	Intended use	2
2.2	Non-intended use	2
2.3	Reasonably foreseeable misuse	2
3	Product description	2
3.1	Parts included	2
3.2	Door fittings required	2
3.3	Technical data	3
3.4	Variants	3
3.4.1	Variants for solid doors, adjustable quiescent current/operating current principle	3
3.4.2	Variants for tubular frame doors not adjustable quiescent current/operating current principle	4
3.5	Classification	4
4	Pin assignment	5
4.1	Block diagram SVA 6xxx Stand Alone	5
4.2	Connecting cable SVP-A 1100/2100	5
5	Mounting	6
6	Disassembly and disposal	6

1 Information about this document

1.1 Contents and purpose

This document supplements the SVA/SVI locks' assembly instructions and contains technical information for the mounting and commissioning of an SVA 6xxx lock.

1.2 Target group

The locks may only be mounted by technical specialists who have been trained for this purpose by dormakaba.



1.3 Other applicable documents

- SVA/SVI locks assembly instructions
- Manual for the connecting cable SVP-A 1100/2100
- Technical documents for the selected control unit
- Commissioning instructions for the SVI lock

1.4 Abbreviations

SVA	Active, self-locking (anti-)panic lock for the active door leaf in 2-leaf door units
SVI	Inactive, self-locking (anti-)panic lock for the passive door leaf in 2-leaf door units
6xxx	All versions of a lock; the exact lock type is marked with 3 digits instead of xxx.
G	Active door leaf
S	Passive door leaf

1.5 Symbols used

		Item numbers used in image caption
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2 Safety

2.1 Intended use

The SVA 6xxx is a lock for the active door leaf on 2-leaf door units.

- Only use the components approved by dormakaba for mounting:
 - SVI 4xxx or SVI 5xxx lock on passive door leaf
 - SVP-A 1100 or SVP-A 2100 connection cable
- Only mount combinations of lock and fitting that have been tested and approved in accordance with EN 179 or EN 1125. The list of approved components can be found in the constancy of performance certificate at www.dormakaba.com. Other combinations on request.
- Mounting on fire and smoke protection doors is only permitted if the usability certificates for these doors provide for this mounting and if the requirements are followed.
- The SVA 6xxx lock is suitable for use on fire and smoke protection doors.

2.2 Non-intended use

- The lock must not be opened by third parties. If the lock is opened by a third party, there is a risk that safety-relevant functions (e.g. escape/panic functions) will no longer exist.
- The identification plate on the lock contains important information required by law and must not be damaged or obscured.

2.3 Reasonably foreseeable misuse

- There may be no further locking devices on the door unit.
- Do not make any changes to the door unit that are not described in this manual.
- If door seals (e.g. profile seals, floor seals) are used, they must not impede the intended function
-

3 Product description

The SVA 6xxx is a mechatronic lock for the active door leaf. The SVA lock locks automatically as soon as the door leaf is closed. In case of emergency, the door can be opened in the escape direction at any time. The SVA lock can query the status of the trip latch, bolt, door handle/panic bar and the locking cylinder. The door handle can be electrically engaged or disengaged on the access side (split follower), e.g. for door units with access control systems. The door handle is controlled via GND contact by means of potential-free locks (operating current) or normally closed contacts (quiescent current).

Installation example

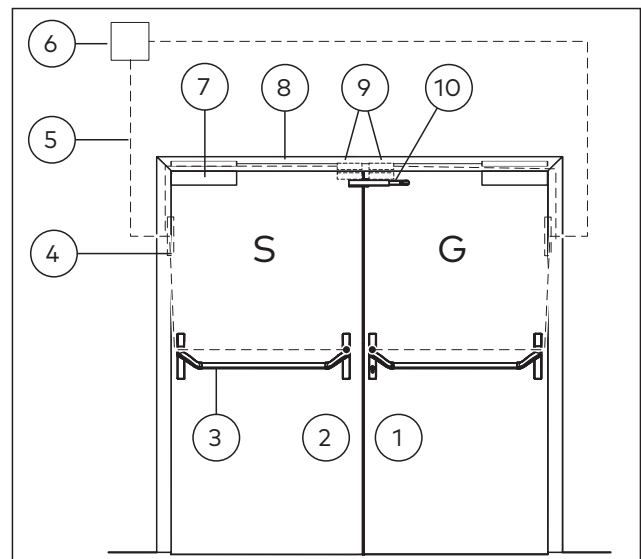


Fig. 1 Door handle controlled installation situation (example)

- (1) Active door leaf with SVA 6xxx
- (2) Passive door leaf with SVI 4xxx
- (3) Panic door fitting
- (4) Cable transfer CT, cable spiral CS and if necessary detachable cable transfer DT
- (5) Connecting cable SVP-A 1100/2100
- (6) Monitoring (optional)
- (7) Door closer
- (8) Sequential locking control
- (9) Door contact TK (optional)
- (10) Carry bar

3.1 Parts included

- SVA lock
- Screws required for mounting
- SVA 6xxx commissioning instructions

3.2 Door fittings required

Inner side of the door: Door handle or panic bar

Outer side of the door: Door handle

Locking pin: split 9 mm square, e.g. PHS 55

3.3 Technical data

Supply voltage:	12 or 24 V DC stabilized (+/- 10 %)	
Temperature range:	-25°C to +70°C	
Relative humidity:	up to 95% at 55°C no condensation	
Power consumption:	0.15 A at 12 V DC 0.3 A at 24 V DC	
Status messages via potential-free contacts		
Contact load capacity:	100 mA at max. 30 V DC	
Protection category:	IP 54	
	Tubular frame locks	Solid door locks
Rear backset:	15 mm	33 mm
Distance between door handle and locking cylinder:	92 mm for profile cylinder 94 mm for round cylinder	72 mm profile cylinder 74 mm round cylinder
Bolt throw:	20 mm	20 mm

3.4 Variants

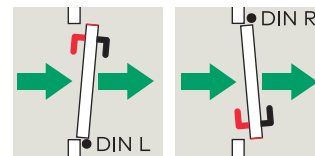
The door must always be opened in the escape direction.

Depending on the design and type of mounting, the escape route direction is outwards opening (normal case) or inwards opening (special case).

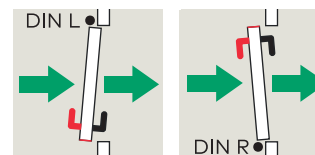
Door must always be opened in the escape direction

- ➔ Escape direction
- └ Door handle permanently engaged
- └ Door handle can be electrically operated
- Door hinge L/R

Outwards opening (normal case)



Inwards opening (special case)



3.4.1 Variants for solid doors, adjustable quiescent current/operating current principle

Locking cylinder	Door type	Backset B	DIN	Type	Order no.		
Profile cylinder	Folding door Forend: 235 x 20	65	L-outwards/R-inwards	SVA 6271	70010099		
			R-outwards/L-inwards	SVA 6272	70010100		
			L-in/R-outwards	SVA 6273	70010101		
			R-inwards/L-outwards	SVA 6274	70010102		
			80	L-outwards/R-inwards	SVA 6281	70010105	
				R-outwards/L-inwards	SVA 6282	70010106	
	L-in/R-outwards	SVA 6283		70010107			
	R-inwards/L-outwards	SVA 6284		70010108			
	100	L-outwards/R-inwards		SVA 6291	70010111		
		R-outwards/L-inwards		SVA 6292	70010112		
		L-in/R-outwards	SVA 6293	70010113			
		R-inwards/L-outwards	SVA 6294	70010114			
Butt door Forend: 235 x 24		65	L-outwards/R-inwards	SVA 6277	70010103		
			R-outwards/L-inwards	SVA 6278	70010104		
	80		L-outwards/R-inwards	SVA 6288	70010109		
			R-outwards/L-inwards	SVA 6277	70010110		
			100	L-outwards/R-inwards	SVA 6297	70010115	
				R-outwards/L-inwards	SVA 6298	70010116	
Round cylinder		Folding door Forend: 235 x 20		65	L-outwards/R-inwards	SVA 6371	70010077
					R-outwards/L-inwards	SVA 6372	70010078
	L-in/R-outwards				SVA 6373	70010079	
	R-inwards/L-outwards				SVA 6374	70010080	
	80		L-outwards/R-inwards		SVA 6371	70010322	
			R-outwards/L-inwards		SVA 6382	70010323	
		L-in/R-outwards	SVA 6383	70010324			
		R-inwards/L-outwards	SVA 6384	70010325			
		100	L-outwards/R-inwards	SVA 6391	70010326		
			R-outwards/L-inwards	SVA 6392	70010327		
	L-in/R-outwards		SVA 6393	70010328			
	R-inwards/L-outwards		SVA 6394	70010329			
Butt door Forend: 235 x 24	65		L-outwards/R-inwards	SVA 6377	70010081		
			R-outwards/L-inwards	SVA 6378	70010082		
		80	L-outwards/R-inwards	SVA 6387	70010083		
			R-outwards/L-inwards	SVA 6388	70010084		
			100	L-outwards/R-inwards	SVA 6397	70010085	
				R-outwards/L-inwards	SVA 6398	70010086	

3.4.2 Variants for tubular frame doors not adjustable quiescent current/operating current principle

Locking cylinder	Door type	Backset D	DIN	Type	Order no.
Profile cylinder	Profile door Forend: 270 x 24 Operating current	35	L-outwards/R-inwards	SVA 6710	70010123
			R-outwards/L-inwards	SVA 6719	70010124
		40	L-outwards/R-inwards	SVA 6720	70010125
			R-outwards/L-inwards	SVA 6729	70010126
		45	L-outwards/R-inwards	SVA 6730	70010127
			R-outwards/L-inwards	SVA 6739	70010128
	Profile door Forend: 270 x 24 Quiescent current	35	L-outwards/R-inwards	SVA 6710	70010135
			R-outwards/L-inwards	SVA 6719	70010136
		40	L-outwards/R-inwards	SVA 6720	70010137
			R-outwards/L-inwards	SVA 6729	70010138
		45	L-outwards/R-inwards	SVA 6730	70010139
			R-outwards/L-inwards	SVA 6739	70010140
Round cylinder	Profile door Forend: 270 x 24 Operating current	35	L-outwards/R-inwards	SVA 6810	70010117
			R-outwards/L-inwards	SVA 6819	70010118
		40	L-outwards/R-inwards	SVA 6820	70010119
			R-outwards/L-inwards	SVA 6829	70010120
		45	L-outwards/R-inwards	SVA 6830	70010121
			R-outwards/L-inwards	SVA 6839	70010122
	Profile door Forend: 270 x 24 Quiescent current	35	L-outwards/R-inwards	SVA 6810	70010129
			R-outwards/L-inwards	SVA 6819	70010130
		40	L-outwards/R-inwards	SVA 6820	70010131
			R-outwards/L-inwards	SVA 6829	70010132
		45	L-outwards/R-inwards	SVA 6830	70010133
			R-outwards/L-inwards	SVA 6839	70010134

3.5 Classification

Tubular frame locks

CE	dormakaba Deutschland GmbH DORMA Platz 1 - 58256 Ennepetal
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	0432-CPR-00026-97	18
SVA 6xxx RR	EN 14846:2008 3 X 6 E 0 M 7 1 3	
DOP_0165		

	0432-CPR-00026-11	18
SVA 6xxx RR	EN 179:2008 3 7 7 B 1 4 5 2 A A	
DOP_0166		

	0432-CPR-00026-01	18
SVA 6xxx RR	EN 1125:2008 3 7 7 B 1 4 2 1/2 A/B A	
DOP_0167		

Solid door locks

CE	dormakaba Deutschland GmbH DORMA Platz 1 - 58256 Ennepetal
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	0432-CPR-00026-08	15
SVA 6xxx VB	EN 14846:2008 3 S 5 E 0 L 7 1 3	
DOP_0161		

	0432-CPR-00026-11	17
SVA 6xxx VB	EN 179:2008 3 7 7 B 1 4 5 2 A A	
DOP_0162		

	0432-CPR-00026-02	17
SVA 6xxx VB	EN 1125:2008 3 7 7 B 1 4 2 1/2 A/B A	
DOP_0163		

4 Pin assignment

4.1 Block diagram SVA 6xxx Stand Alone

Contact definition: Position of the switches when the door is closed and locked. Door handle and cylinder not actuated.



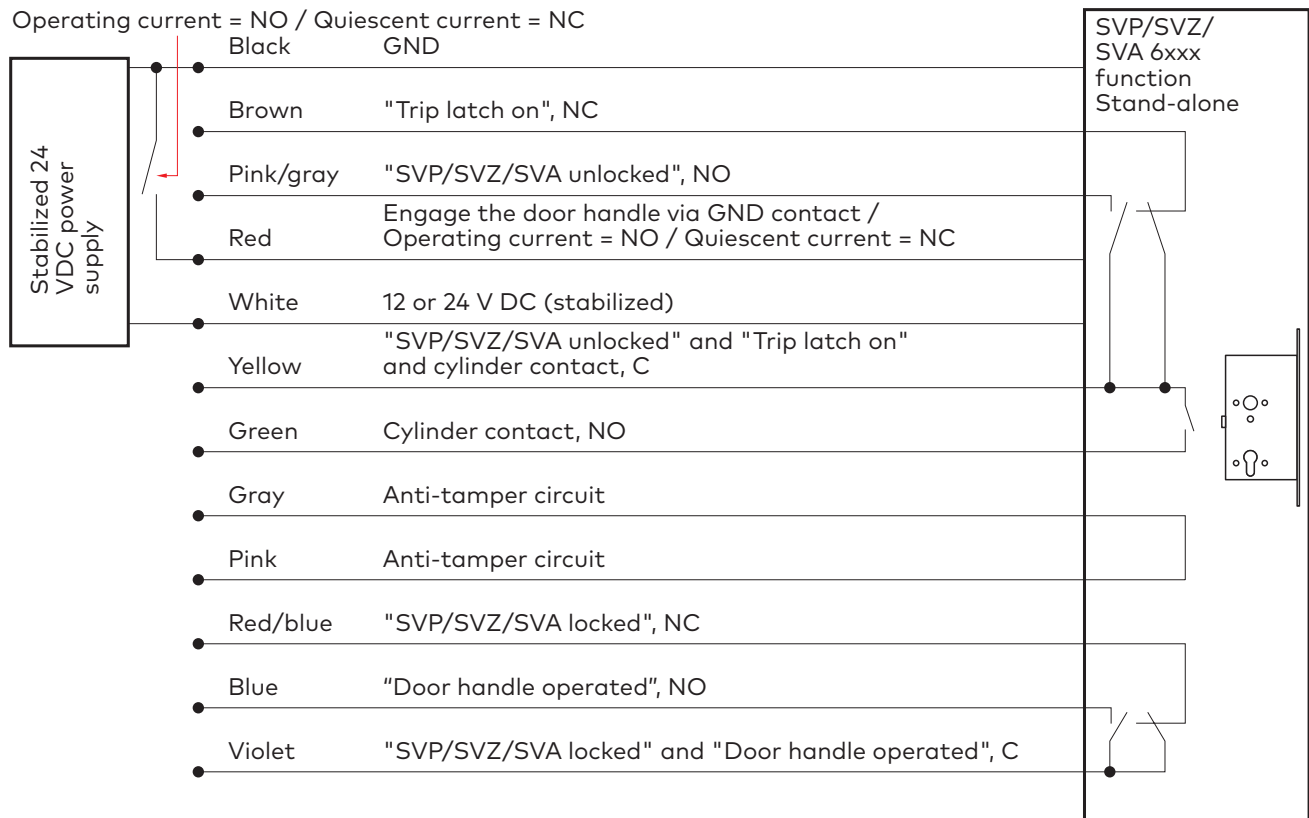
Note

For earthed door frames, the bridge on the SVP-A x100 connection cable's plug must be disconnected.



Note

Important with SVx 6000 for solid doors
The feedback contacts "SVx locked" and "Door handle operated" only work if the lock is supplied with voltage (GND - black and 12 V DC or 24 V DC - white).



4.2 Connecting cable SVP-A 1100/2100

Cable color	Connection / function
Black	GND
Red	not in use
White	+24 V DC
Brown	not in use
Violet	Locked, output switches to GND, 30 mA at max. 30 V DC
Red-blue	not in use
Blue	not in use
Green	not in use
Gray-pink	Bolt contact* ²
Yellow	Bolt contact* ²
Gray	RS485 N* ¹
Pink	RS485 P* ¹

*¹ only in combination with SVA 2xxx(F) with SVI 2xxxF

*² Optional

5 Mounting



Note

If necessary, change operating current (OC) to quiescent current (QC). Can only be used in versions for solid doors.

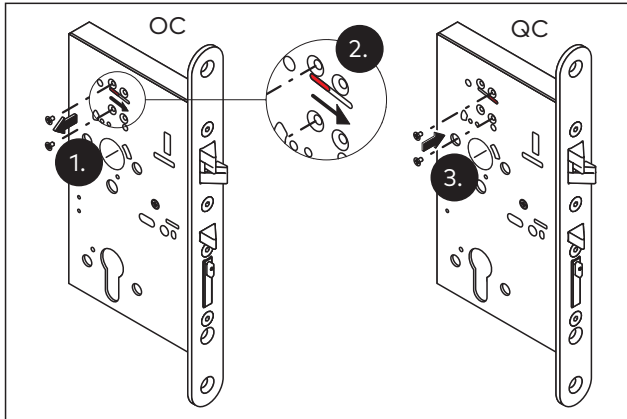


Fig. 2 Change operating current to quiescent current

Mounting takes place when the door unit is assembled.

See SVA/SVI assembly instructions.



<https://techdoc.dormakaba.com/cds/go/SVA-SVI>

SVI commissioning manuals



<https://techdoc.dormakaba.com/cds/go/SVI>

6 Disassembly and disposal

Disassembly is carried out in reverse order of the mounting instructions.



The product must not be disposed of in domestic waste.

Dispose of the product in an environmentally friendly manner at the arranged acceptance and collection points.

Refer to the statutory regulations for your country.

