SE 310 LSN SmartKey Arming Device

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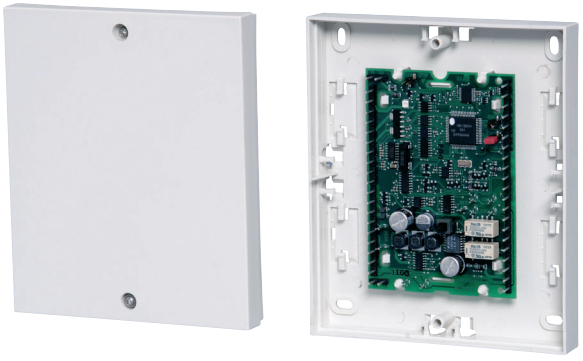
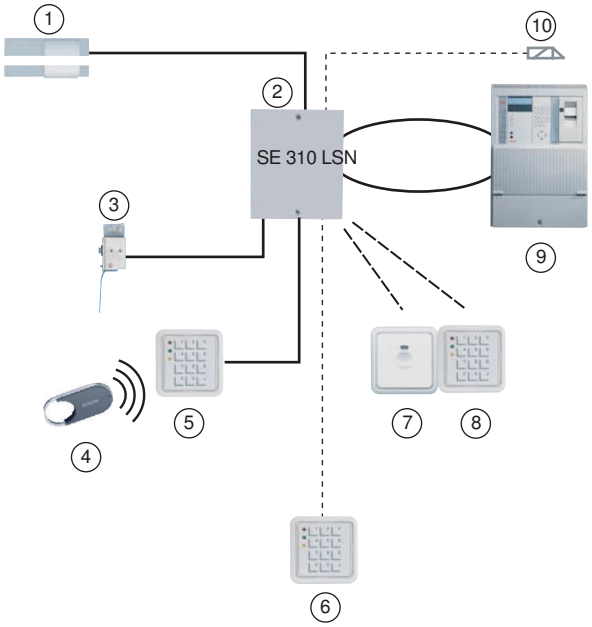


- SmartKey code keypad can be used as a “coded arming device” with integrated reader
- Code keypads can be used as a “coded arming device” in conjunction with the reader
- The code keypad with integrated reader can also be connected as an autonomous code keypad.
- Blocking element connection option for vault doors
- Connection option for door opener relay

The SE 310 LSN SmartKey arming device with connectable code keypad/reader is a system solution for arming/disarming intrusion alarm systems.

System overview



1	SPE blocking element
2	SE 310 LSN control unit
3	Bolt contact
4	SmartKey keys
5	Code keypad with integrated reader
6	Code keypad (as autonomous code keypad)
7	Reader
8	Code keypad
9	LSN control panel
10	Door opener relay or blocking element for vault doors

Functions

Individual system components can be put together depending on the usage conditions required. Further control options for blocking elements for vault doors and door openers are possible. Operation modes with or without the SPE blocking element are possible. The SE 310 LSN control unit processes the status reports of all components in the system, communicates these reports to the intrusion alarm system and controls the blocking element. The control

unit has a connection line for connecting bolt contacts and two primary lines. The control unit is mounted in the secure area.

SmartKey code keypad with integrated reader
The SmartKey code keypad with integrated reader combines the function of the reader and the SmartKey code keypad in one unit. Initial set-up and operation is the same as with one reader + one code keypad. The scanner for the SmartKey key is located in the middle of the unit (not visible from the outside). To operate, you hold the SmartKey key in the middle of the SmartKey code keypad (with integrated reader) a max. of 2 cm away. The code keypad with integrated reader allows arming and disarming of the intrusion alarm system only after the correct combination of numbers has been entered at the code keypad. If someone is forced to disarm the intrusion alarm system, a silent alarm (hold-up alarm) can be set off remotely via the code keypad. The code keypad can be surface or recessed mounted (outside the secure area).

Reader
Arming and disarming is done using an electronic key on the reader. LED and buzzer provide information about the status of the system as well as operation. The reader can be surface mounted or recessed mounted (outside the secure area).

Reader and code keypad
The code keypad, used in conjunction with the reader, allows arming and disarming of the intrusion alarm system only after the correct combination of numbers has been entered at the keypad. If someone is forced to disarm the intrusion alarm system, a silent alarm (hold-up alarm) can be set off remotely via the code keypad. The keypad can be surface mounted or recessed mounted (outside the secure area). With recessed mounting, two IP55 recessed sockets can be used in conjunction, if necessary. One on top of the other or beside each other.

Reader and lockable code keypad
The code keypad, used in conjunction with the reader, allows arming and disarming of the intrusion alarm system only after the correct combination of numbers has been entered at the keypad. If someone is forced to disarm the intrusion alarm system, a silent alarm (hold-up alarm) can be set off remotely via the code keypad. The code keypad can be surface or recessed mounted (outside the secure area).

Code keypad (as autonomous code keypad)
The SmartKey code keypad with integrated reader can also be connected as an autonomous code keypad. The code keypad allows arming and disarming of the intrusion alarm system only after the correct combination of numbers has been entered at the code keypad. If someone is forced to disarm the intrusion alarm system, a silent alarm (hold-up alarm) can be set off remotely via the code keypad. The code keypad can be surface or recessed mounted (outside the secure area).

Keys with a security card
The system operates like a locking device. The key kit consists of a set number of valid keys and a security card. The control unit is initialized using the security card, and accepts only the keys of the key kit. To order additional keys, the security card must be sent to the manufacturer together with the order. The keys are labeled with a consecutive key number, a security card number and an 8-digit identification number.

Standard key (without security card)
The keys are not numbered and an unlimited number can be read in. The keys are labeled with an 8-digit identification number.

SPE blocking element
The SPE blocking element is an additional lock for the door and is meant to prevent unauthorized entry to the armed area. The SPE blocking element must always be mounted in the secure area with a kit to allow it to be fitted out for different door types.

Blocking elements for vault doors
The E4.4 and E4.3 blocking elements are electromechanical blocking units that are intended for installation in vault doors or doors on safes or automatic teller machines. The blocking elements are not used as switching equipment; arming occurs via SmartKey. The blocking element for vault doors is included into the arming's forced actuation system. It is not possible to simultaneously connect an E4.4/E4.3 blocking element and an SPE blocking element and/or a door opener relay.

Door opener relay
There is a relay for activating a door opener relay on the control unit; 60 W DC (2 A, 30 V DC). Parameters must be defined for connecting the door opener; activation is only possible with an unarmed control panel and an open bolt contact. Setting of a time-delay and an activation time is programmable. The door opener relay can also be activated using a push-button via PL2. Simultaneous connection to a blocking element is not possible for vault doors.

Switch point activation (C point)
There is a freely programmable C point switch output (open-collector output) 12 V, max. 80 mA on the control unit.
A conventional bolt contact should be fitted to the control unit (not part of the scope of delivery).
A conventional standard magnet contact can be connected to the control unit (not part of the scope of delivery).

Certifications and approvals

Country	Certification	SE 310 LSN
DE	VdS	G 101019, C

Region	Certification	
Germany	VdS	G 101019, C SmartKey arming device: LSN VdS G 101019

Installation/configuration notes

- A maximum of 16 SmartKey keys per system can be used if the SmartKey key is read in at the control unit. In other respects, the number of SmartKey keys depends on the control panel: NZ 300 LSN = 40 keys, UEZ = 255 keys.
- SE 310 LSN without bolt contact: Due to the time shift caused by the LSN, up to four SE 310 LSN can be actuated in 200 ms (not arming time). In general, a bolt contact should be mounted.
- If several LSN SmartKey systems need to block simultaneously in one area (motorized block locking function), the control units must be in the same LSN processing assembly (on LVM for UEZ, on NV120 for UGM).
- It is not possible to simultaneously connect an E4.4/E4.3 blocking element and an SPE blocking element and/or a door opener relay.
- A lockable code keypad cannot be connected when connecting a push-button for the door opener.

Important information regarding connection options:

- Blocking elements for E4.4/E4.3 vault doors: When connecting an E4.4/E4.3 blocking element, no SPE blocking element or door opener relay can be connected.
- Door opener relay: When connecting a door opener relay, no E4.4/E4.3 blocking element can be connected for vault doors.
- Push-button for door opener relay: A lockable code keypad cannot be connected when connecting a push-button for the door opener.

Parts included

Type	Qty.	Component
SE 310 LSN	1	SmartKey arming device control unit

Technical specifications

SE 310 LSN control unit	
Operating voltage	9.6 V to 30 V
Total current consumption including blocking element at an input voltage of 9.6 V	
• Standby LSN part	3.53 mA
• Standby additional supply	41 mA
• Bolts are engaged	110 mA for 200 ms
• Bolts blocked	470 mA for 200 ms
Total current consumption including blocking element at an input voltage of 28 V	
• Standby LSN part	3.53 mA
• Standby additional supply	30 mA
• Bolts are engaged	65 mA for 200 ms
• Bolts blocked	200 mA for 200 ms
Environmental conditions	
• Environmental class	2
• Protective system	IP 30
• Operating temperature	-5°C to +45°C
• Storage temperature	-40°C to +85°C
Housing	
• Material	ABS
• Color	RAL 9002
Dimensions (WxHxD)	135 x 160 x 35 mm
Weight	0.25 kg

Ordering information

SE 310 LSN SmartKey Arming Device
Order number **4998113807**

Accessories

SmartKey code keypad with integrated reader
Non-contact reader for SmartKey key and user code entry
Order number **4998113948**

Spare keypad membranes with screen
For replacing the membrane keypad or screen for the SmartKey code keypad with integrated reader
Order number

Lockable code keypad
Can be used in conjunction with the reader
Order number **2799380623**

SmartKey reader
Non-contact reader for SmartKey key
Order number **4998021692C20**

IUI-SKK-3S key set
3 x SmartKey keys and security card
Order number **IUI-SKK-3S**

IUI-SKK-1S additional key
1 x additional SmartKey key for IUI-SKK-3S key set
Order number **IUI-SKK-1S**

IUI-SKK-1 standard key
1 x SmartKey key without security card
Order number **IUI-SKK-1**

SmartKey hybrid key card
As combined card with two transponders
Order number **4998112166**

SPE blocking element incl. surface mounting kit
For installation on frame/door
Order number **4998013609C20;4998149110**

SPE blocking element incl. flush mounting kit
For installation in frame/door
Order number **4998021691C20;4998149110**

SPE blocking element incl. glass kit
For installation on glass doors
Order number **4998019339.C20;4998013609C20;4998149110**

SPE blocking element incl. NBS 10 kit
For upgrading the NBS 10
Order number **4998149110;4998040651C20**

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