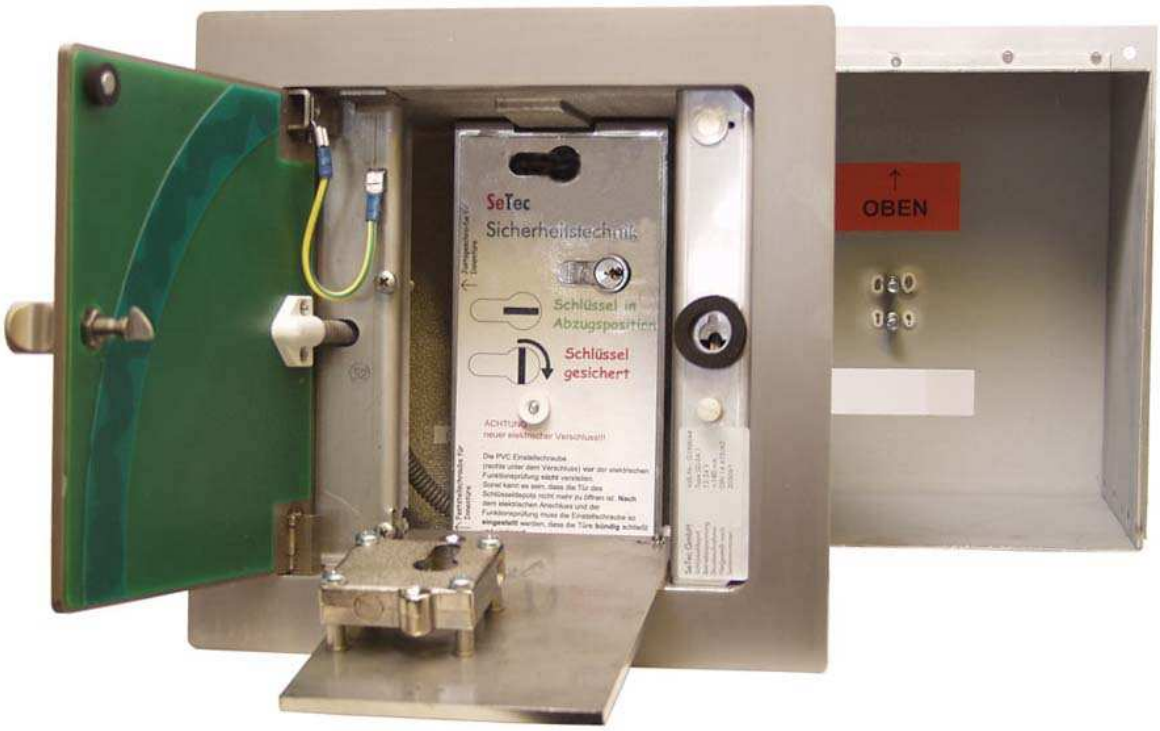
Fire brigade key depot
SD-04.1

VDS NR. G 198044
Art.Nr.: B11900



Contents:

1.0 General

Objekts, with a fire alarm system, must in case of a fire alarm by the firefighters freely and at any time can be entered. If the object is not constantly filled by example a porter the object keys can be deposited in a fire brigade key depot.

Deposited main building keys must be specially secured. This happens bacause the outer door just in case of fire by the fire alarm system (BMA) will be unlocked. Only then can the fire fighters open the inner door with their main key. Now they reach out the actual objekt key. This objekt key a profil cylinder is electrically monitored.

For correct surveillance of the SD04.1, it requires a VdS recognized connection adapter. For example the SeTec Adapter SDA3.

The adapter SDA3 monitors:

a) the cable to SD 04.1

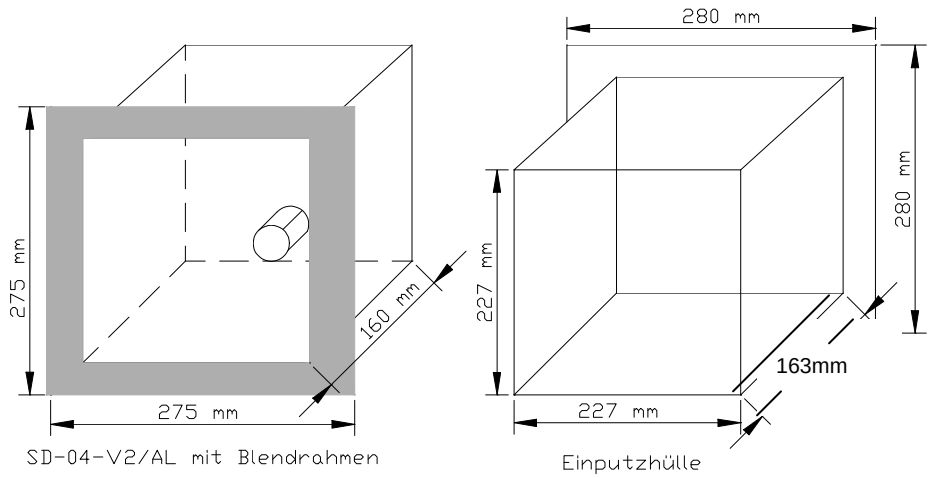
b) the protection against drilling of SD 04.1

c) the door contact of SD 04.1

d) the object key in SD 04.1

The adapter steers the outer door latch, if a fire alarm is recognized by the fire alarm control panel. The SDA3 distinguishes between allowed opening of the outer door in case of a fire, and not allowed opening for example burglary. Key depots are not only usable in conjunction with fire detection systems, but they can be used in different hazard alarm systems.

2.0 Dimensions



3.0 Technical data

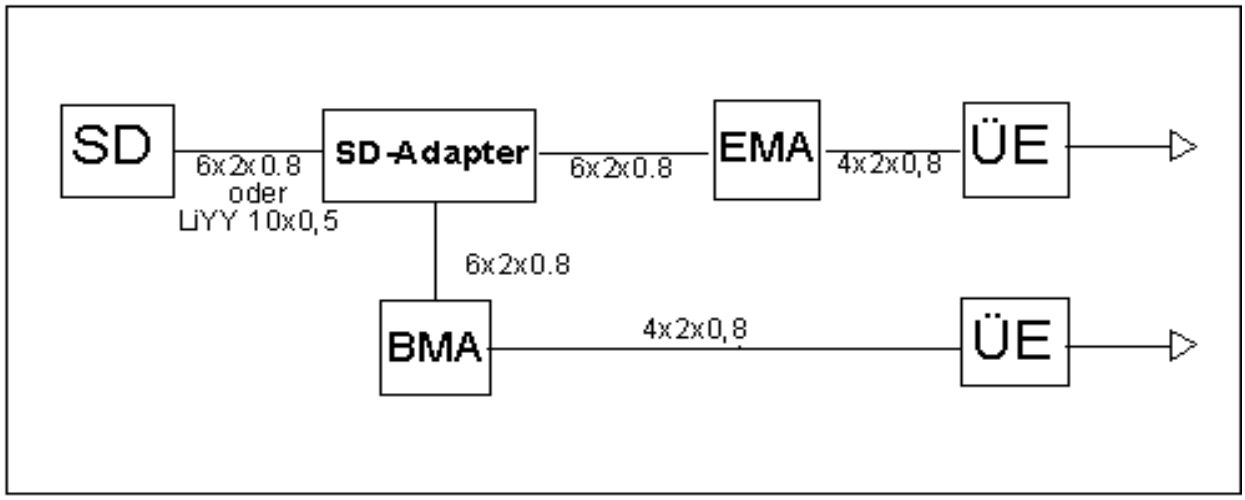
Title / Function	Data	Additional Information
Body	Aluminium Cast alloy	
Outer door	5mm Stainless Steel	brushed
Sight Frame	3mm Stainless Steel	brushed
Weight	11 Kg	without inner door
Protection	IP 44	splashwaterproof
el. Lock	12 or 24V +/- 15%	depending Switch position
Heating	6 Watt with 12 or 24V	Heatresistors
Current with 12 V	~ 280 mA	without Heating
Current with 24 V	~ 280 mA	without Heating
Current with Heating	~ 250 mA	with 24V Supply
Current with Heating	~ 510 mA	with 12V Supply

4.0 Articlenumber / Spare Parts

Article / Titel	Articelnumber
Fire brigade key depot SD04.1	B11900
Fire brigade key depot SD04.1 With 10m cable	B11900A
Sight Frame	T10968
Wall mounting box	T10969
Electronic – Board	T11053K
Spare Kit 1	B11898
Spare Kit 2	B11896
Kit 2 Objectzylinder	B11899

5.0 Monitoring of the Key depot

Control and Monitoring of the Key depot has to be made with a VdS-recognized Keydepot adapter, accordingly the following schematic diagramm.



We suggest the SeTec Adapter SDA3.

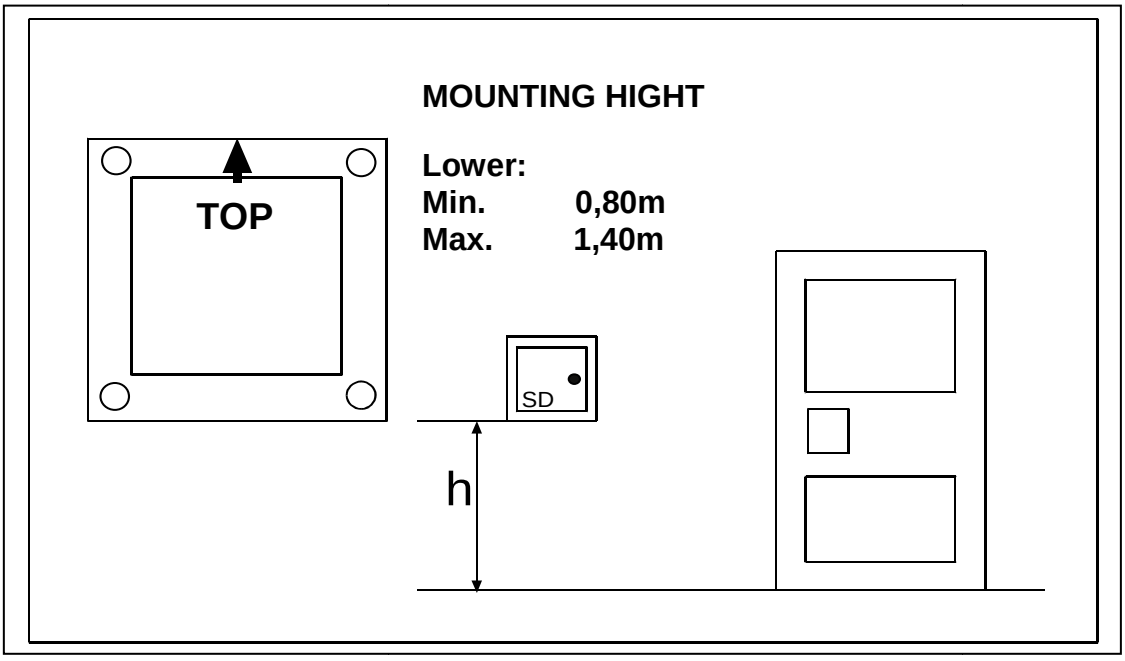
As boardversion to the installation direktly in the Fire control panel. ArtNr.: B10936S
As completversion in a sepertat housing. ArtNr.: B10937S

6.0 Installation of SD 04.1 in walls

Basically, SD shall only be installed in walls according to DIN 1053, made from tiles according to DIN 105 or lime sandstone according to DIN 106 or in walls made from reinforced concrete (B 25 min. according to DIN 1045).
The walls shall have a depth of the installation depth of a SD plus 80 mm min. (for critical cases, see also enclosure B of guideline VdS 2105).
The SD must be installed in a way that the external door precisely matches the walling, the distance between the lower egde of the SD and the ground must be at least 0,80m and preferably 1, 20 m.

(CAUTION: Shore up the wall of the mounting box, to make sure the box do not bend.)

(CAUTION: First connect the SD to the electrical wires otherwise the outer door will be locked without a possibility of opening.

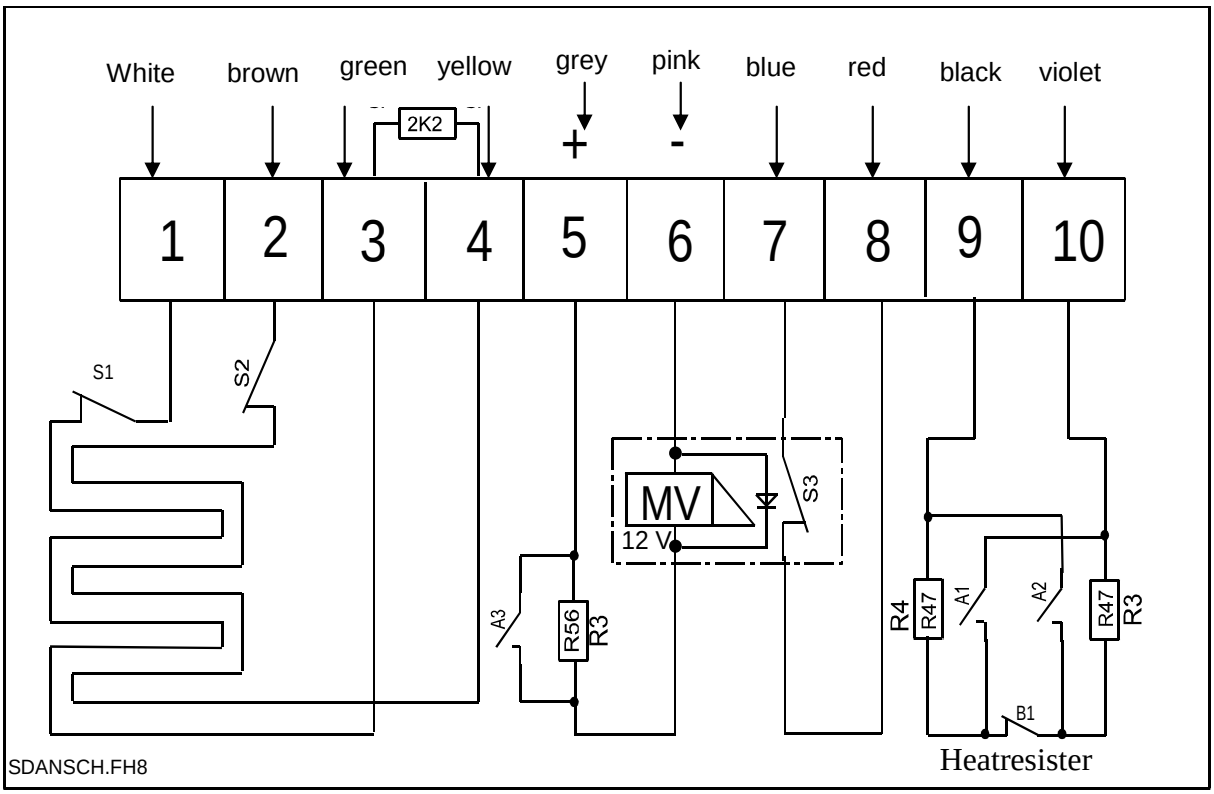


6.1 Wiring

The electrical resources and monitoring devices of SD shall be connected, with a multiconductor cable (LiYY 10 x 0,5 mm²).
The cable between SD and the ports of the SDA shall preferably have a rendering installation and, if possible, without any further connections into GMA area. If a cable mu8st be extendet, make use of suitable, corrosion-protected cable connection techniques (for example: sealed sleeve joint).
If, in extraordinary cases, the connections must pass a distribution board, they shall

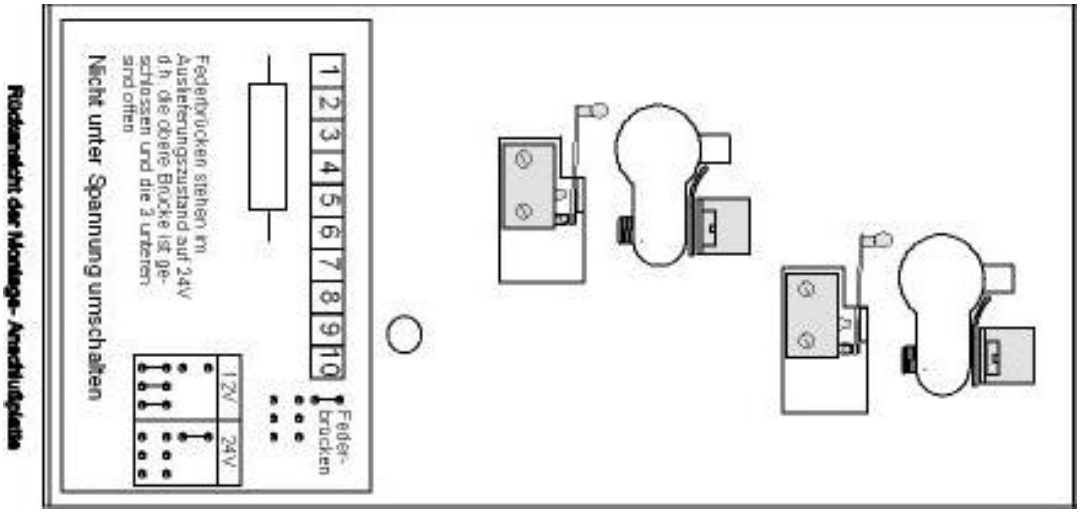
- Be within the GMA area,
- Be VdS-approved,
- Correspond with the Class B or C
  EMA must correspond with Class C,
- Be monitored for opening and be sealed

6.2 Wiring Diagramm

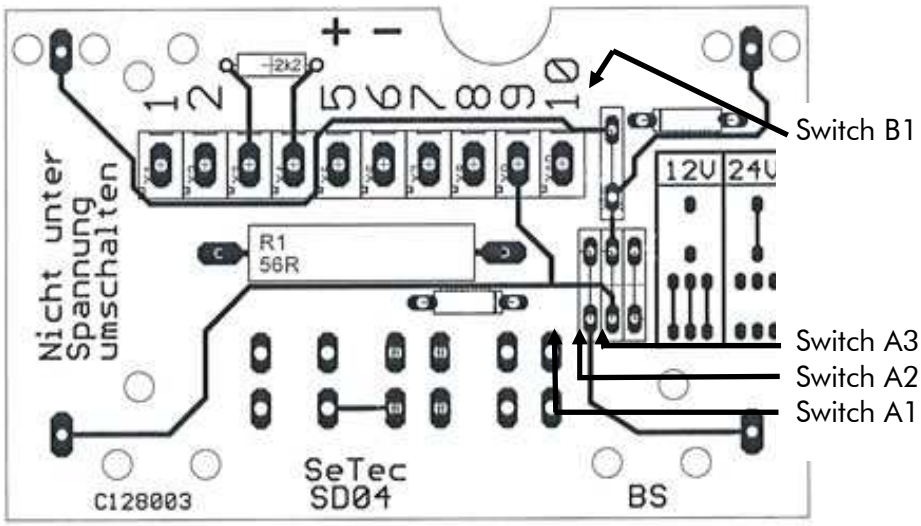


S1 = magnetic contact outdoor (viewed: Door closed)
S2 = object key contact (viewed: Cylinder assured)
S3 = door contact (viewed: Door open)
At 24 V power supplies, the serial switching of resisters is made by closing B1 and opening A1-A3.
At 12 V power supplies, the parallel switching of resisters is made by opening B1 and closing A1-A3.

6.3 Rear View of the mounting- and connector board

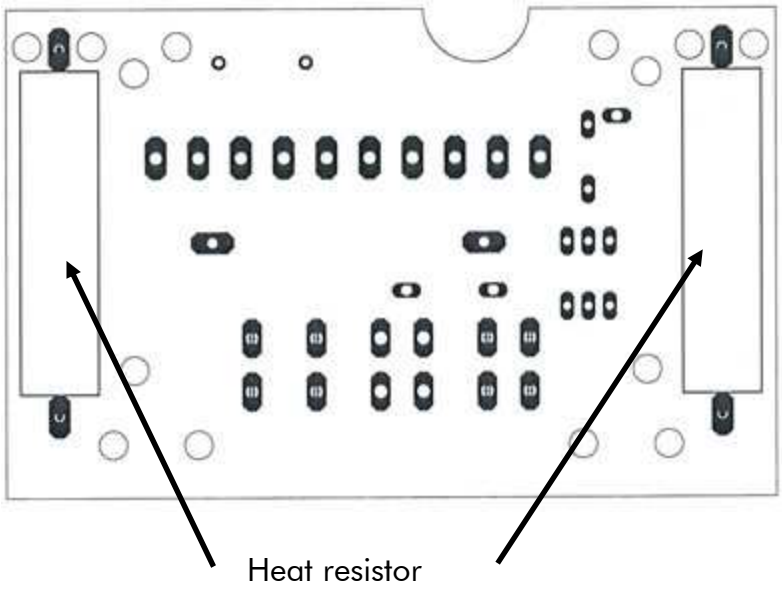


6.4 View of the SD Elektronic board from "the top"



7.0 Heating of SD

A Heating is built, to guarantee the flawless function of the SD-04.1 with lower temperature. The connection will be done on clamp 9 and 10. The heating prevented the danger of frozen condensations water in the SD-04.1.
The SD heating requires a constant power supply. It is not necessary to have the power supply of the GMA (for example fire detection and warning device) you can use an external power supply. It must have a feeding from a low-voltage network (net) whose failure is noticed by attending personal.



8.0 Inner door

The following inner doors could be used:

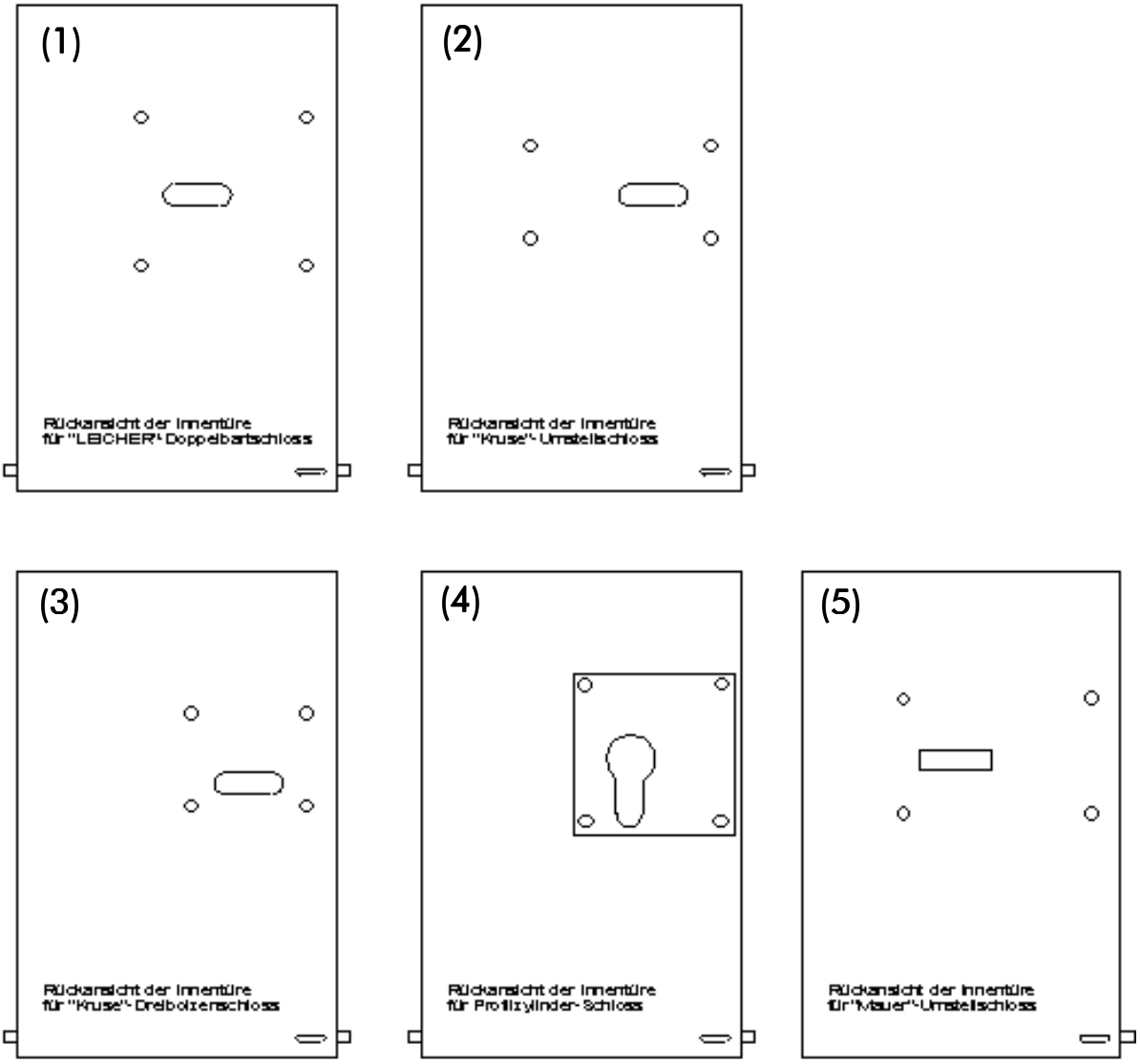
(1) Inner door for double key bit Type “Leicher”, Art.-Nr.: B10943B

(2) Inner door for double key bit Type “Kruse”, Art.-Nr.: B10943A

(3) Inner door for 3 Bolt Lock Type “Kruse”, Art.-Nr.:B10944A

(4) Inner door for Profil half cylinder, Art.-Nr.: B10942A

(5) Inner door for double key bit Type “Mauer”, Art.-Nr.: B10944C



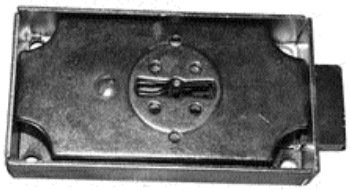
For the inner door of the SD you shall use only the locks according to the guideline. A locking for a SD shall not be used for other purposes. If a SD is used with different key holders and different applications (for example: fire brigade, security companies), different lockings shall be used.

8.1 Lockers for inner doors

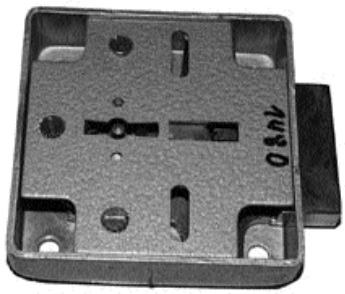
The most used locks:

Profil cylinder lock

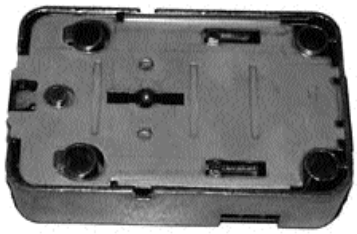
"Kruse"-double key bit



"Leicher"-double key bit



"Mauer"-double key bit



9.0 Commissioning

After installation of the SD-04.1, the function of the door latches has to be examined.
So the voltage has to be connected with the door latches. This happens on the clamp 5 and 6 directly on the SD-04.1 or over the adapter SDA3.

While switching the power on and off you must hear a clear "klack" in the door latch.
If this works well, you can adjust the plastic screw bottom right.

Attention:
If the plastic screw is adjusted, the outer door can only be opened by switching the electrical power.

10. Tips and tricks

Failure	Help
Outer door do not lock	→ 2,2KΩ at clamp 1+2 in the adapter SDA3? → Object key in the right position? → Magnet on the outer door OK? → Is Contact at clamp 7+8 switching while closing the door?
Outer door do not unlock	→ are 12V or 24V at clamp 5+6 in SD? at clamp 3+4 on SDA3 available → Is the power connecting right? Plus and minus?