

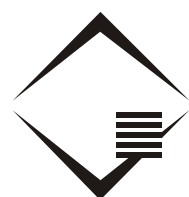
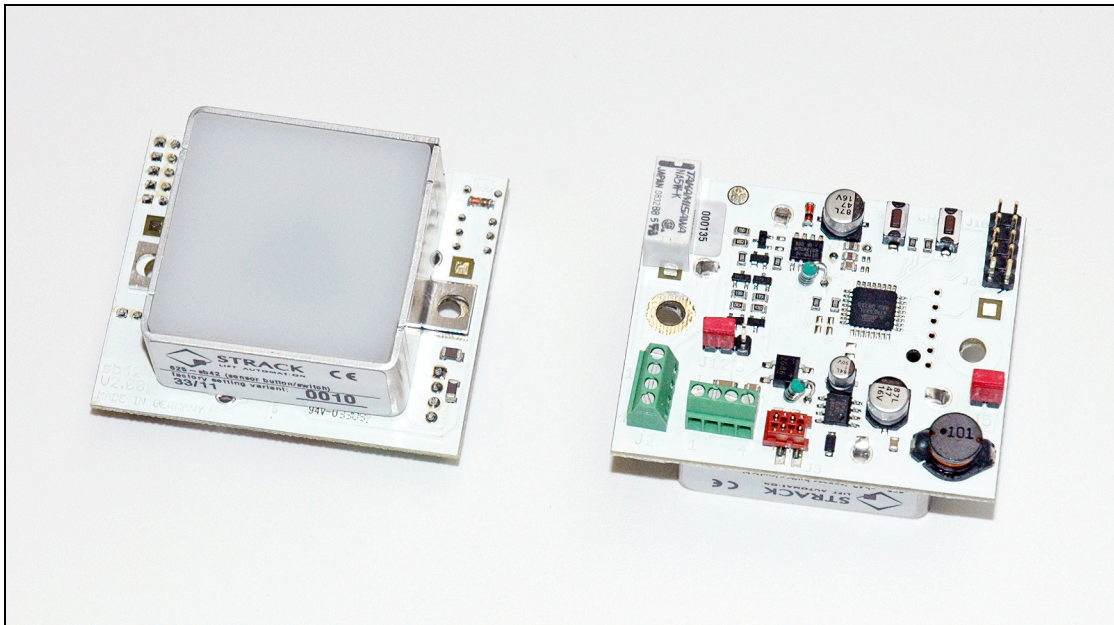
Operating Instruction

sb42 indi42

Multi-color sensor button

Multi-color LED indicator
for glass panels

Status: 10.4.2018



STRACK
LIFT AUTOMATION

Important notice:

The data and information in this documentation
have been made up with the utmost care.
Although everything has been done to keep the
information included in this volume up-to-date
and correct at the date of publishing,
we cannot guarantee that it is absolutely free of faults.

© STRACK LIFT AUTOMATION GmbH

Lise-Meitner-Straße 2
42489 Wülfrath (Germany)
phone +49 2058 89328-0
fax +49 2058 89328-200

HOTLINE: +49 2058 89328-360

support@liftnet.org

www.liftnet.org

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1 Safety instructions

1.1 Typographical conventions and safety references

For this document the subsequent typographical conventions shall apply.

Symbol	Meaning
	“NOTE:“ Includes special information and useful tips for working with this product
	“IMPORTANT:“ This warning plate points to possible hazards. There is a risk of accidents which may result in personal or material damage if the prescribed measures are not taken.

1.2 Product liability and warranty

STRACK LIFT AUTOMATION GmbH reserves the right, to rework this product from time to time without notice and to make changes on the product. The use of this product is not permitted in the USA and in other countries under similar law. Otherwise, the General Contract Conditions and the Terms of Delivery of STRACK LIFT AUTOMATION GmbH shall apply.

1.3 Personnel for installation and operation

All chapters of this operating instruction include important information on the intended use of the product. These chapters apply to technically qualified persons, trained particularly for the installation, repair, maintenance and commissioning of lifts erected in correspondence with the relevant lift directives. Attention shall be paid to carrying out all work in accordance with the respective legal regulations for safety at work. Observe the accident prevention regulations and the regulations on the safety measures to be taken upon installation and maintenance of lifts.

1.4 Risk assessment

Knowledge and technical implementation of the safety references included in this documentation are prerequisite for having a fault free product. This documentation, however, cannot consider all possible details for any possible case of installation. Therefore, like in any other case, a certain risk will remain, particularly owing to human error. It is the aim of this documentation to help reducing this remaining risk to a minimum.

2 Usage to the intended purpose

2.1 General

The sensor-key sb42 and the LED-displays indi42 are used as operating and indicating elements for **glass operating panels** of the type 1st-Glass® and others, normally for the connection to electronic lift controls. Upon request, they can work also in combination with old relay controls, e.g. also with a higher voltage up to 120VDC.

The mode of operation and the electrical connection of sb42 and indi42 are similar to those of normal operating panels.

The sensor-key sb42 is suitable for **firemen service lifts**. Sudden wetness may possibly cause the sensor-key to operate. At first, in this case, the key will react no longer upon touching. After drying or wiping of the glass field and after a waiting time of max. 15 seconds it will function again, which differs from the behaviour of most conventional mechanical keys. Please ask the local fire-fighting authorities prior to installation if there are any objections to installing these elements.

Glass operating panels with sensor-keys **cannot** generally be prepared to fulfill the requirements for **handicapped passengers** as per DIN 18025 or EN 81-70 in every respect. By its permanent illumination the sensor-key sb42 indeed provides a recognisability that is better than with common keys, however no tactility is provided. The glass surface is smooth, the keys and the symbols cannot be groped for. Even if the glass surface could be felt, the users might touch inadvertently a couple of sensor keys instead of only one. Therefore, in case of lifts with unrestricted accessibility to handicapped persons, a **normal operating panel must be installed in addition to the glass operating panel**, e.g. a console-mounted version.

sb42 sensor keys can be used for **all control panel functions**, e.g. calls and commands, open door, close door, fan, charge time etc.. It may also be used as an **alarm key**, cf. **EN81-28:2003** "Remote emergency call for passenger and freight lifts" section 4.2.3 and section 7. In contrast to conventional mechanical alarm keys, the sb42 has a constant power supply (emergency lighting and call battery). If this power supply fails, the operationally activated output relay of the sb42 drops out and thus immediately triggers a continuous alarm, meaning that such a fault is immediately detected and passed on through the remote emergency call device (cf. section 4.1). This function thus also provides battery voltage monitoring for the lift control system.

Depending on the system, glass control panels provide **excellent protection against vandalism**. Depending on the thickness of the glass (very thick glass is also permissible for the sb42, see technical data) and the design of the control panel (e.g. how the glass is mounted, fixation to the substructure), **category 2** is easily **possible in accordance with the EN81-71** standard "Protective measures against vandalism". A smooth, enclosed glass surface cannot be attacked e.g. with ballpoint pens, rope/cord/wire, keys, walking sticks, chewing gum, cigarettes, body mass, penknives, cigarette lighters, screw drivers, bottle caps or wire cutters, as required by the standard.

If a chemically aggressive or a conductive atmosphere may possibly be expected, it has to be clarified in advance if the panel can be used.

2.2 Exclusions

In applications other than the here described ones the sb42 and indi42 devices shall not be used without the written approval of or an offer from STRACK.

The usage in installations where an explosive atmosphere may be expected is not permitted.

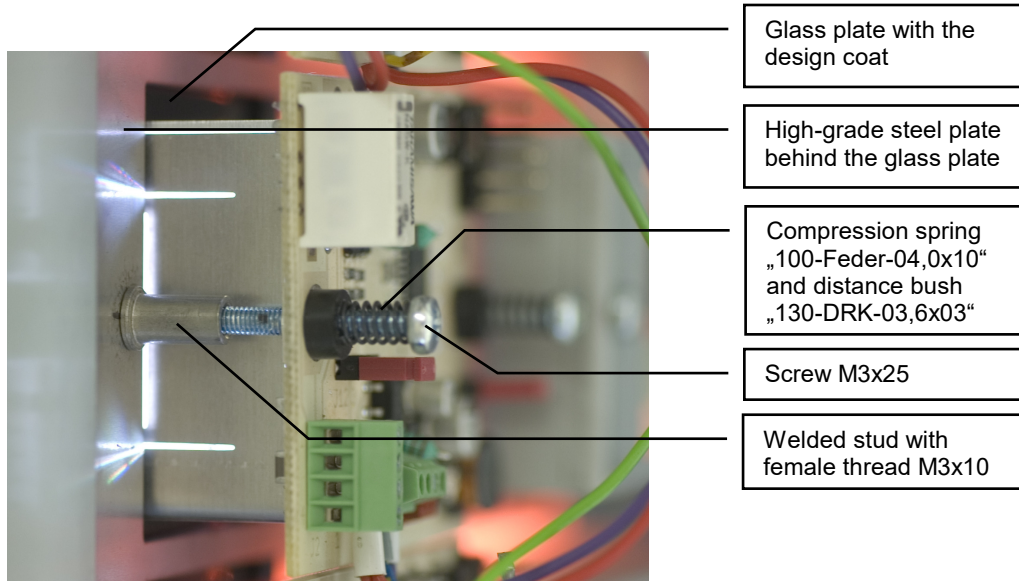
3 Installation

3.1 Required tools

- Set of screwdrivers from **2 mm upward!**
- (if needed) multimeter for the measuring of voltage, current and resistance

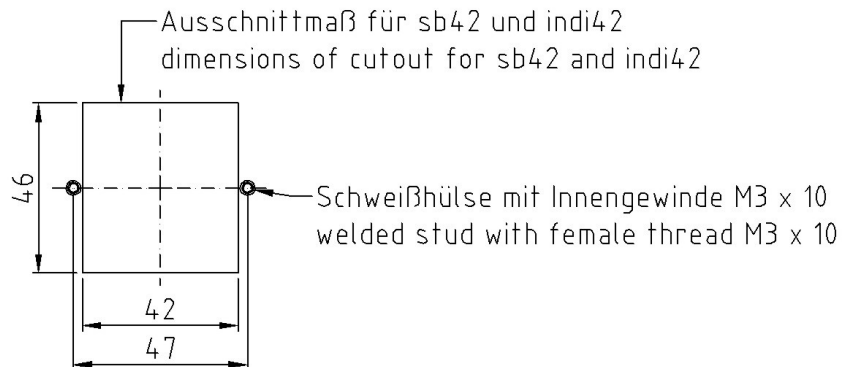
3.2 Installation rules

- There shall be no air gap between the sensor field of the sb42 device and the glass pane.
- Only the original compression springs should be used. The distance bush may not be renounced.

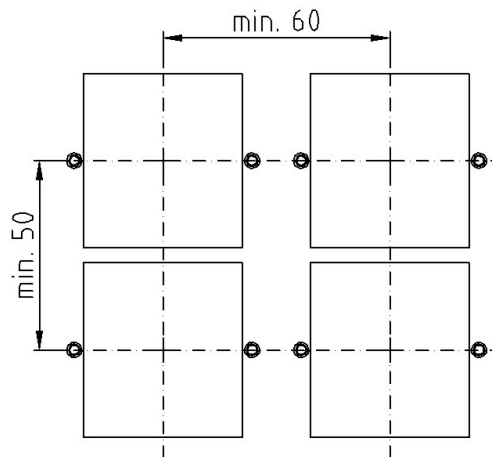


3.3 Panel cutout behind the glass

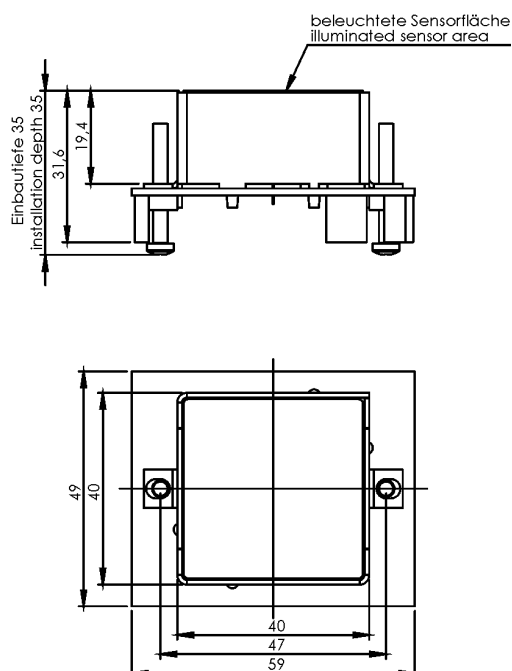
A common design for a glass panel is, to laminate the glass pane (thickness variable) onto a stainless steel plate (thickness e.g. 2mm). There is no cutout in the glass pane. In the stainless steel plate however, a cutout as shown below is made for the sb42 and/or the indi42:



The minimum placing scheme is:



3.4 Dimensional diagram

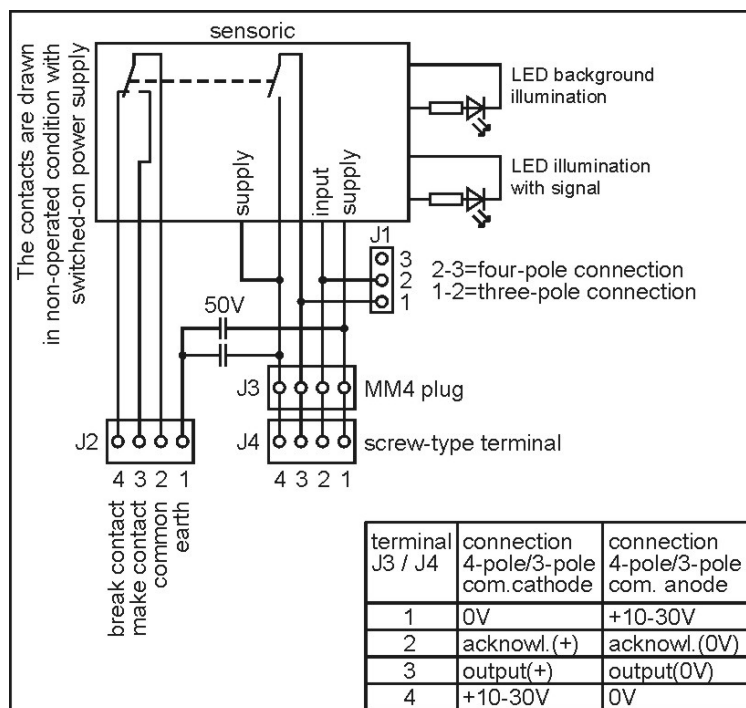


4 Electrical connection

4.1 Circuiting prescription

- Similar to normal keys the relay switching output of the sb42 is also not short-circuit proof.
- Operational earthing of the 24VDC-supply must be provided. This is normally arranged in the lift control and should be shown in the connection diagrams of the lift control.
- Each sb42 and indi42 must be connected to earth (see connection diagram).
- If inductors like, e.g., relay coils shall be connected, the coils must be fitted with free-wheeling diodes.
- In order to minimize induced voltages generated by parallel conductors, cables (e.g. travelling cables) should be assigned so, that conductors bearing different voltage ranges (e.g. 230VAC and 24VDC) will be in separate cables.
- Pay attention to correct installation and wiring of frequency inverters of driving units and door operators.

Sensor-key/Sensor-switch sb42



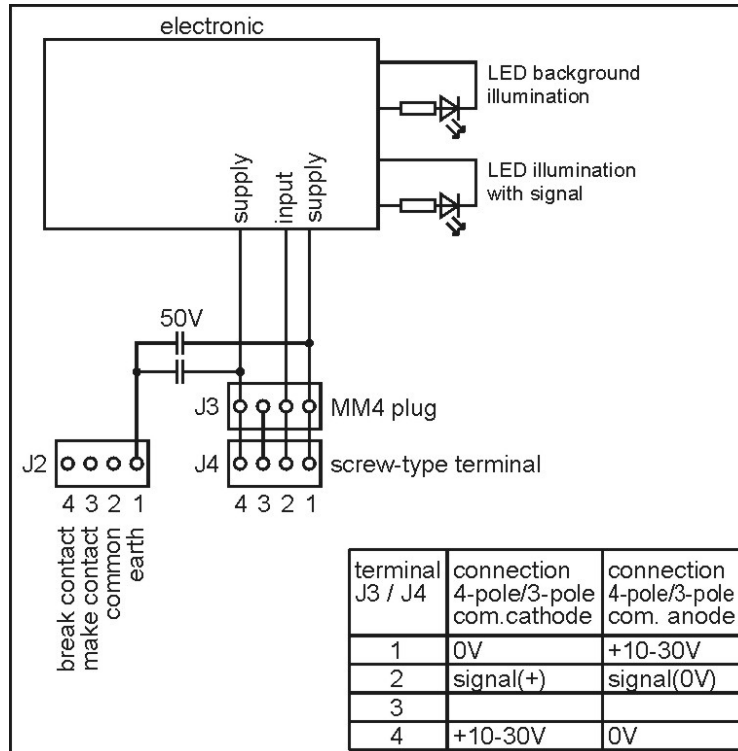
The supply voltage is applied to terminal J3 or J4 between connectors 1 and 4; it must be applied permanently. When the key is operated, either Plus or 0V is put out at connection 3, depending on the polarity of the supply voltage. Also the polarity of the acknowledgement input connector 2 depends on that. If you plug jumper J1 to position 1-2, the connection of the key is performed by 3 wires ("common anode" or "common cathode", depending on the polarity of the supply), if you plug the jumper to 2-3, the output (connector 3) and the acknowledgement input (connector 2) are working independently from each other. Additionally, a potential-free change-over contact is provided at terminal J2, connectors 2,3,4.

Note:

If the supply voltage is applied, the output relay will pick up. If then the key is operated, it will drop-out. The contacts in the diagram are shown in the de-energized state but with voltage applied. If the sb42 is used as an **alarm key**, the output relay will drop-out not only when the alarm key is operated but also in case of a voltage failure at the alarm key, thus giving alarm automatically.



LED indicator indi42



2-pole connection without jumper between connectors 2 and 4:

The supply voltage is applied at terminal J3 or J4, between connectors 1 and 4. The color that has been selected as background illumination will light up (acknowledgement light and transition effects are meaningless).

2-pole connection with jumper between connectors 2 and 4:

The supply voltage is applied at terminal J3 or J4 between connectors 1 and 4. Since the signal input is set immediately, the display will start by showing the transition effect. If there is a color transition effect parameterized, the luminous color is starting with the background color and then turns into the acknowledgement color. After that, the acknowledgement color will light up (e.g. also permanent blinking is possible) as long as the supply voltage is applying.

3-pole connector:

The supply voltage is applied at terminal J3 or J4 between connectors 1 and 4. The color which has been selected as background illumination will light up. In order to switch over the signal illumination, either Plus or 0V has to be put to connector 2, depending on the polarity of the supply voltage. The display starts showing the transition effect. After that, the acknowledgement color will light up as long as the signal input is active.

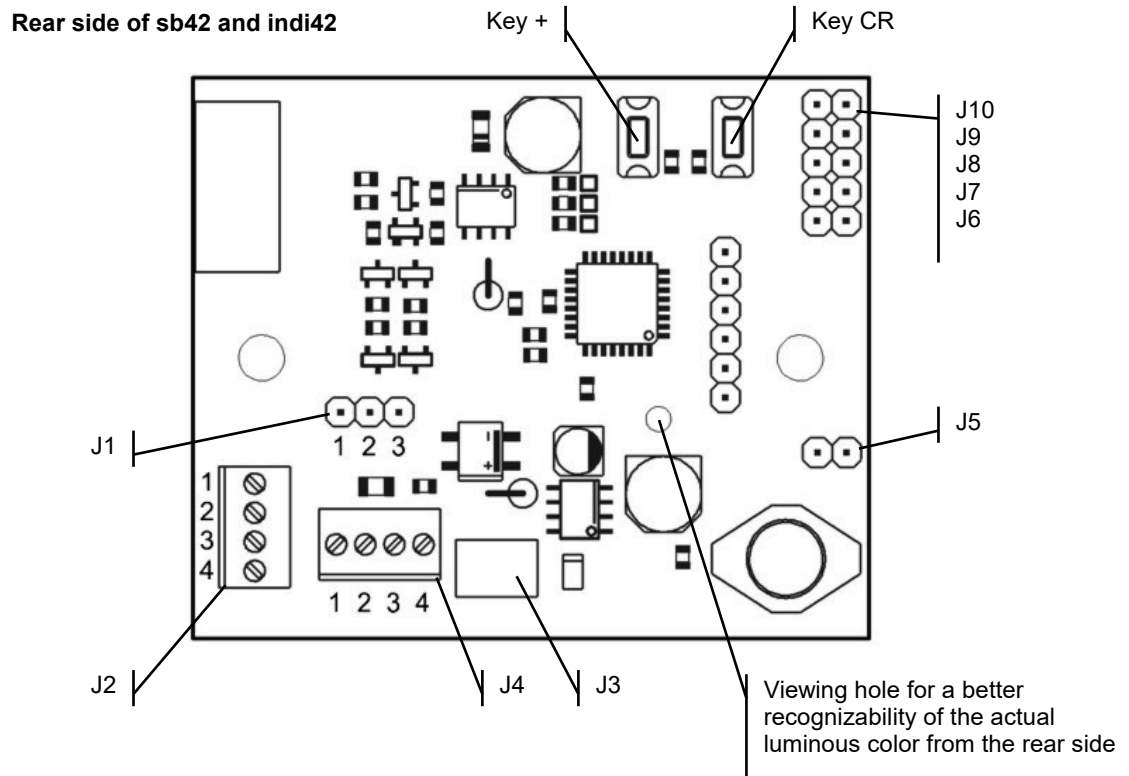
5 Modes of operation

5.1 General function

In case of a glass operating panel the panel design is glued, painted or printed onto the rear side of the glass pane. The required number of sensor-keys sb42 are mounted so behind the glass pane that they will press slightly against the pane.

The sb42 detects the lift user's capacity against that earth upon which he is standing. The tripping characteristic is laid out to the human motor skills, considering people of different age (old man = slow operating), gender and origin (Asian female = small finger, American male = big finger). If, however, the finger of the user is approaching extremely slow, the key will not be operated. Thus, the sb42 can permanently readjust itself to slow changes of the ambient conditions. Therefore, readjustment or maintenance is not required.

After the engagement of the supply voltage the sb42 will calibrate itself automatically to the glass thickness and the ambient conditions and will indicate this by red light blinking. After some seconds the calibrating process is completed and the key is working normal.



5.2 Restart / Reset

Reset is carried out if you keep key [+] pressed and acknowledge with [CR]. It has the same effect as switching the voltage off and again on; all parameters remain disabled. After switching-on, the key sb42 will blink for some seconds. During this time it will calibrate itself to the thickness of the glass and to the ambient conditions.

5.3 Normal operation

If jumper J5 has been set the key is working normally, i.e. it is reacting when operated .

5.4 Parameterizing

The lighting colors and the key functions can be free modified. For that, no aids whatsoever are required. The modified parameters are immediately and permanently stored in the EEprom, i.e. they are not getting lost in case of a voltage failure.

5.5 Parameter to other indicators / copying of keys

Each indi42 and each sb42 (subsequently called “sender”) can copy its parameters to other indi42 or sb42 devices (subsequently called “receiver”). About that it is possible to connect up to 10 receivers at the same time.

Procedure:

1. The sender must be in normal operation (J5 is plugged).
2. Connect the sender with the receiver by means of the data transfer flat-cable from STRACK. Plug this cable at the sender and at all receivers to the jumpers J6-J10. The red strip must be always at the same side; which side is unimportant.
3. All receivers must be in the parameterizing mode (J5 removed). At each receiver go to parameter No. 17 and give one push on [CR]; it indicates now the ready-to-receive state with a permanent red light.
4. Press key [+] at the sender for 5 seconds until all receivers have acknowledged the receipt of the data.
 - a) A successful transmission is acknowledged by yellow flashing.
 - b) If the receiver is switching off its light, transmission of data was faulty. Try another transmission, shorten the flat cable (if required), check the plugs for correct seating, the polarity and the intactness of the cable.
 - c) If after the 5 seconds one or all receivers are still lighting red, it (they) are not reacting to the data sent. Try another transmission, shorten the flat cable (if required), check the plugs for correct seating, the polarity and the intactness of the cable.

6 Adjusting the sensitivity

The sensor keys calibrate themselves automatically to the conditions of their environment. But there are still three sensitivity areas which have to be adjusted with the solder jumpers:

area 1: glass thickness 4 to 10 mm

area 2: glass thickness 11 to 20 mm or mirror

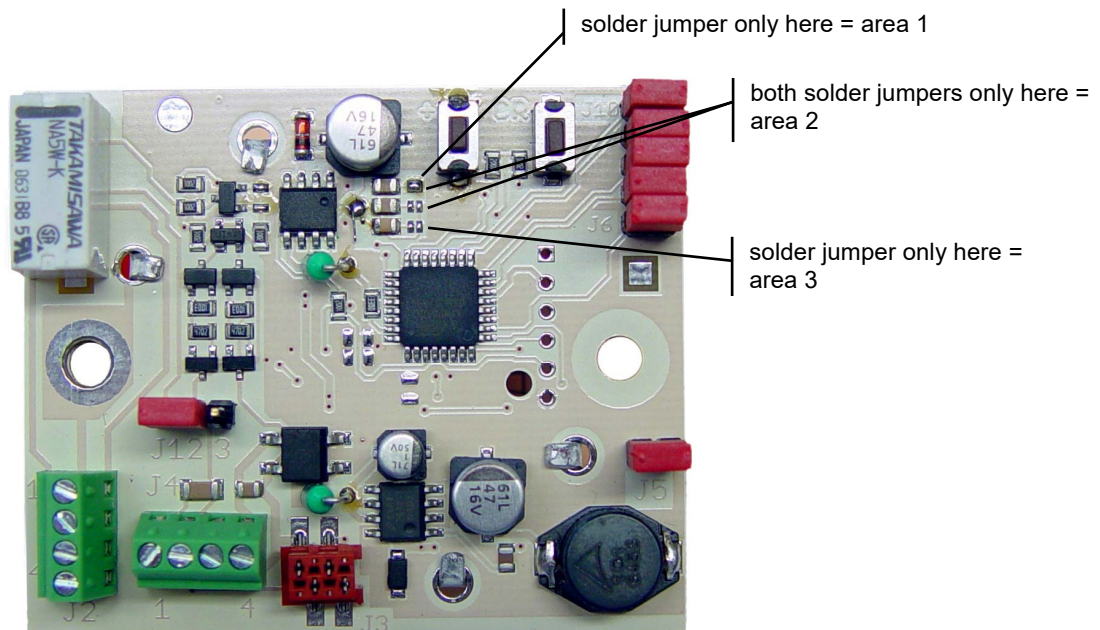
area 3: glass thickness 21 to 30 mm



Note:

Please turn off the power supply before soldering!

The sensor key is especially developed for glass operating panels. If you want to use other materials, e.g. plastics, the sensitivity can differ. We will help you with this on request.



On the picture “area 1” is adjusted.

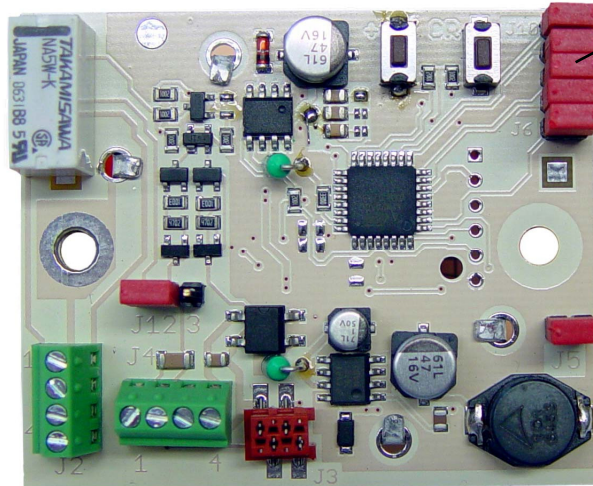
7 Parameterizing



Note:

Please always leave jumper J6-J10 plugged except for the parameterization.

This protects the electronics from damage by ESD when touching the pins.



Also in normal operation please leave all jumpers plugged!

7.1 Parameterizing process

In the parameterizing mode the respective parameter number is indicated by a blinking color.

Parameter No.	Blinking color	Meaning
1	light red / dark red	LED-color: background illumination
2	light green / dark green	LED- color: acknowledgement
3	light blue / dark blue	LED-intensity: generally
4	light cyanic / dark cyanic	Intensity of the background illumination
5	red / green	Intensity of the acknowledgement illumination
6	red / blue	Transition effect of background illumination to acknowledgement
7	green / blue	Relay switch-off delay
8	cyanic / red	Share of red color in the background illumination
9	cyanic / green	Share of green color in the background illumination
10	cyanic / blue	Share of blue color in the background illumination
11	white / red	Share of red color in the acknowledgement illumination
12	white / green	Share of green color in the acknowledgement illumination
13	white / blue	Share of blue color in the acknowledgement illumination
14	white / cyanic	Function as a key, switch or indicator
15	lilac / blue	Activate special color
16	lilac / red	Reset to factory settings
17	light yellow / dark yellow	Copy parameters to other indi42 / sb42

1. Remove jumper J5. You are now in the parameterizing mode
2. Each parameter has got another color, the parameter number that is actually to be set will be indicated by blinking of the color.
3. Go with key [+] to that parameter which you want to set. If you have arrived at parameter 17, it will start again at parameter 1.
4. Set the parameter value at the jumpers J10-J6. In the subsequent tables the parameter value is xxxxx = J10 J9 J8 J7 J6. If a value of, e.g., 00010 shall be set, plug the jumper J7 and leave the jumpers J6, J8, J9, J10 open.
5. Take over the new value by pressing key [CR]; the new value will be stored immediately.

If you want to check the effect of the new parameter value, you can do this easily. Re-plug the jumper J5. The keys of the indicator will immediately be back again in normal operation; the

effect can be tested. If you want to change this parameter or another one further, remove the jumper J5 and you will be again in the parameterizing mode on exactly the same place as before.

7.2 Parameter

Parameter 1	Background color (RAL-color shades only approximate)		
Value	Meaning	Value	Meaning
00000	LED red	10001	RAL 3015 (light pink)
00001	bright green	10010	RAL 3022 (salmon red)
00010	LED blue	10011	RAL 4001 (red-lilac)
00011	RAL 1001 (beige)	10100	RAL 4003 (heather violet)
00100	RAL 1003 (signal yellow)	10101	RAL 4005 (blue-lilac)
00101	RAL 1004 (yellowy-gold)	10110	RAL 4008 (signal-violet)
00110	RAL 1016 (sulphur yellow)	10111	RAL 4010 (tele-magenta)
00111	LED yellow	11000	RAL 5012 (light blue)
01000	RAL 1019 (grey beige)	11001	RAL 5015 (sky-blue)
01001	RAL 1023 (traffic yellow)	11010	RAL 5018 (turquoise)
01010	RAL 2005 (bright orange)	11011	RAL 5021 (clear blue)
01011	RAL 2007 (bright light orange)	11100	LED green
01100	RAL 2008 (light red orange)	11101	RAL 6021 (pale green)
01101	LED orange	11110	RAL 6034 (paste- turquoise)
01111	RAL 2012 (salmon orange)	11111	LED white
10000	RAL 3014 (dusky pink)		

Parameter 2	Acknowledgement color (RAL-color shades only approximate)		
Value	Meaning	Value	Meaning
00000	LED red	10001	RAL 3015 (light pink)
00001	bright green	10010	RAL 3022 (salmon red)
00010	LED blue	10011	RAL 4001 (red-lilac)
00011	RAL 1001 (beige)	10100	RAL 4003 (heather violet)
00100	RAL 1003 (signal yellow)	10101	RAL 4005 (blue-lilac)
00101	RAL 1004 (yellowy-gold)	10110	RAL 4008 (signal-violet)
00110	RAL 1016 (sulphur yellow)	10111	RAL 4010 (tele-magenta)
00111	LED yellow	11000	RAL 5012 (light blue)
01000	RAL 1019 (grey beige)	11001	RAL 5015 (sky-blue)
01001	RAL 1023 (traffic yellow)	11010	RAL 5018 (turquoise)
01010	RAL 2005 (bright orange)	11011	RAL 5021 (clear blue)
01011	RAL 2007 (bright light orange)	11100	LED green
01100	RAL 2008 (light red orange)	11101	RAL 6021 (pale green)
01101	LED orange	11110	RAL 6034 (paste- turquoise)
01111	RAL 2012 (salmon orange)	11111	LED white
10000	RAL 3014 (dusky pink)		

Parameter 3	General lighting intensity for background and acknowledgement illumination		
Value	Meaning		
00000	no illumination		
00001 -11111	00001 = dark ... 11111 = very bright Note: At acknowledgement "gliding play of colors" only "very bright" is possible (11111), see parameter 6		

Parameter 4	Lighting intensity for background illumination
Value	Meaning
00000	no illumination
00001 -11111	00001 = dark ... 11111 = very bright

Parameter 5	Lighting intensity for acknowledgement illumination
Value	Meaning
00000	no illumination
00001 -11111	00001 = dark ... 11111 = very bright Note: At acknowledgement "gliding play of colors" only "very bright" is possible (11111), see parameter 6

Parameter 6	Lighting effects upon transition from background to acknowledgement illumination and for acknowledgement illumination
Value	Meaning
xxx00	Transition effect: without effects
xxx01	Transition effect: short blinking
xxx10	Transition effect: gliding color transition
000xx	Acknowledging effect: without effects
001xx	Acknowledging effect: blinking between background and acknowledging color
010xx	Acknowledging effect: blinking between dark and acknowledging color
011xx	Acknowledging effect: pumping-like blinking between background and acknowledging color
100xx	Acknowledging effect: pumping-like blinking between dark und acknowledging color
101xx	Acknowledging effect: gliding play of colors with all RGB-colors

Parameter 7	Switch-off delay (only sb42)				
Value	Meaning	Value	Meaning	Value	Meaning
00000	0 sec.	01011	20 sec.	10111	8 min.
00001	1 sec.	01100	30 sec.	11000	9 min.
00010	2 sec.	01101	40 sec.	11001	10 min.
00011	3 sec.	01111	50 sec.	11010	20 min.
00100	4 sec.	10000	1 min.	11011	30 min.
00101	5 sec.	10001	2 min.	11100	40 min.
00110	6 sec.	10010	3 min.	11101	50 min.
00111	7 sec.	10011	4 min.	11110	1 hrs.
01000	8 sec.	10100	5 min.	11111	1 hrs. 10 min.
01001	9 sec.	10101	6 min.		
01010	10 sec.	10110	7 min.		

Parameter 8	Self-defined RGB-color for the background illumination Share of red color
Value	Meaning
00000 -11111	00000 = no share of red color ... 11111 = high share of red color (see also parameter 15)

Parameter 9	Self-defined RGB-color for the background illumination Share of green color
Value	Meaning
00000 -11111	00000 = no share of green color ... 11111 = high share of green color (see also parameter 15)

Parameter 10	Self-defined RGB-color for the background illumination Share of blue color
Value	Meaning
00000 -11111	00000 = no share of blue color ... 11111 = high share of blue color (see also parameter 15)

Parameter 11	Self-defined RGB-color for the acknowledgement illumination Share of red color
Value	Meaning
00000 -11111	00000 = no share of red color ... 11111 = high share of red color (see also parameter 15)

Parameter 12	Self-defined RGB-color for the acknowledgement illumination Share of green color
Value	Meaning
00000 -11111	00000 = no share of green color ... 11111 = high share of green color (see also parameter 15)

Parameter 13	Self-defined RGB-color for the acknowledgement illumination Share of blue color
Value	Meaning
00000 -11111	00000 = no share of blue color ... 11111 = high share of blue color (see also parameter 15)

Parameter 14	Switches / keys / Indicator
Value	Meaning
00000	Key function (only sb42) The output is switched on as long as the key is operated
00001	Switch function (only sb42) operated once = output is switching on, operated again = output is switching off
00010	LED-display indi42 (Note: an sb42 can also be parameterized as an indi42)

Parameter 15	Activating of the self-defined colors for background and acknowledgement illumination, generated from the color mixtures of parameters 8/9/10 and 11/12/13
Value	Meaning
00000	Not active
00001	Active

Parameter 16	Resetting to factory settings (this very parameter will not be stored)
Value	Meaning
00101	First code word (after that the sb42/indi42 is blinking lilac / green)
01010	Second code word as confirmation (after that the sb42/indi42 is again blinking lilac / red). Now all factory settings have been taken over into the parameters.

Parameter 17	Receipt of parameter values of another sb42/indi42 (see section 5.5)
Value	Meaning
00000	No data received
00001	Activate receipt of data and wait for parameter data

8 Technical Data

sb42 and indi42		
Supply voltage	V	10-30V DC, residual ripple 10%
Current input max.	mA	Illum. off: 30mA@12VDC / 15mA@24VDC Illum. on: 153mA@12VDC / 57mA@24VDC
Colors of illumination		all (RBG)
Ambient temperature	°C	-30 +60 (not condensing)
Type of protection as per EN 60529		IP 00 (protection performed by the panel)
Dimensions (HxBxT)	mm	49x59x32 (installation depth behind the glass 35mm)
Smallest placing scheme in the panel	mm	50x60
Weight	g	35
Connection		Series terminals and MM4-plugs
Connectable wire cross section	mm ²	0,14-0,5 rigid/flexible without wire end sleeve 0,25-0,34 with wire end sleeve 0,14-0,34 in case of 2 wires of the same cross section (without TWIN-type wire end sleeve)

sb42		
Switching voltage max.	V	30
Switching current max.	A	1 (ohmic)
Switching current min.	mA	0,1
Back-up fuse max.	A	the output circuit must be protected with max. 2A (time-delay fuse)
Switching rate max.	Hz	1
Output 1		1x relay make contact
Output 2		1x potential-free change-over contact on screw-type terminal
Service life		without load: 100 million operations under full-load: 500.000 operations
ON period of the output	s	same as duration of application, however max. 15 in case of key function
Calibration of sensitivity to glass thickness		automatically, max. 22 mm glass (glass of higher thickness upon request)
Ready for operation after engagement of voltage	s	max. 15
Reaction time min.	ms	61

9 Maintenance

9.1 Safety references



Glass operating panels shall be used in technically perfect condition only. Especially malfunctions that may be affecting the safety or damages of the glass are to be settled immediately. Keep all documentations supplied along with the equipment like manuals and electrical diagrams at the site permanently ready at hand. Keep the documentations always up-to-date. This applies particularly in the case of subsequent changes in the lift control. Observe all instructions regarding safety and hazards available at the equipment and keep them in legible condition.

During the operating time of the lift or the storage time of the panels, changes in the environmental influences, e.g. temperature, humidity or explosive atmosphere, the manufacturer (STRACK) must be informed in order to adapt the system to the new circumstances if necessary.

Only original spare parts from the manufacturer (STRACK) may be used. Failure to comply with these instructions or changes to the panels may result in additional hazards that preclude manufacturer liability for consequential damages.

9.2 General maintenance intervals

The keys sb42 and displays indi42 are designed and constructed in such a way that they will function largely fault-free and need only low maintenance. It will be sufficient to check the functions in connection with the lift control upon each periodical inspection by the notified body at the latest.

9.3 Cleaning of the operating panels

The panels have to be cleaned depending on the degree of dirtying of the devices. The surfaces of the panels are consisting of glass, possibly in combination with stainless steel or other metals and silicone.

The glass is resistant against scratches and chemicals. Clean the glass surfaces only with a moist cloth, maybe with a bit of dishwashing agent or glass cleaner. Do not use any scouring agents or materials aggressive to glass.

The stainless steel can be cleaned with a usual stainless steel cleaning agent, e.g. spray of type "metaflux 70-55".



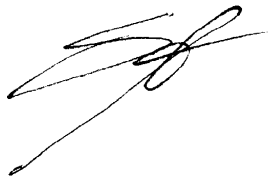
Important! Upon cleaning work the sensor-keys may be touched inadvertently! Unintended motions of the lift or the lift doors may happen. Also moisture may cause a temporary operation of a sensor-key. The operation will be reset only after drying and, possibly, a 15 seconds waiting time. In case of doubt, please shut down the lift while carrying out cleaning work on it.

10 EU-Declaration of conformity

We herewith declare that the devices specified below, owing to the design and construction, in the version placed on the market by us, under observance of the connecting and operating instructions delivered along with the product, are in accordance with the relevant protective requirements specified in the directives mentioned. The devices complying with this declaration are provided with the CE-label. In case of a modification of the products which has not been agreed to by us, this declaration will become invalid.

Type designation	sb42 indi42
Year of construction	2018 / 2019 / 2020
Brief description	Sensor keys and light displays for glass control panels for lifts can be used for all operating functions, e.g. calls and commands, open door, close door, fan, charge time and alarm.
Directives applied	Low voltage directive 2014/35/EU EMC directive 2014/30/EU Lift directive 2014/33/EU
Standards applied	EN 81-20:2014 EN 81-70:2003 + A1:2004 EN 12015:2014 EN 12016:2013 EN 61000-6-1:2007 EN 61000-6-2:2005 EN 61000-6-3:2007 + A1:2011 EN 61000-6-4:2007 + A1:2011
	

This declaration will be submitted, liable for the manufacturer
STRACK LIFT AUTOMATION GmbH
on the
2012-12-21 by
Dipl.-Ing. Dirk Strack, Managing director



Remark

The above mentioned STRACK-products are exclusively designed for the installation in lifts resp. for the assembly with other lift components. The commissioning resp. bringing into circulation within the European Community is permitted only, when the conformity of the end-product complies with the pertinent harmonized directives of the EU.