Kindermann

Ceiling lift Pro 120/165/210
No. 7465 000 050/-051/-052

Ceiling lift Pro 250/300/350
No. 7465 000 053/-054/-055/-063/-064/-065

Installation manual

GB
01.2016

1. ⚠ Safety instructions

- This unit can be operated by children over 8 years or other inexperienced persons if they are supervised or have been instructed about the safe use of the lift and are able to understand the hazards resulting from its operation. Cleaning or servicing the lift must not be done by children.
- Check the unit for damages caused by transport.
- The ceiling lift is only suitable for projectors and indoor use.
- **Only authorized and competent staff are allowed to mount or repair the ceiling lift. It is indispensable to read the installation manual carefully and to heed the safety instructions!**
- During operation of the lift, the danger area must be secured.
- Keep clear when the lift is on its way down.
- The construction of the ceiling must hold at least four times the weight of the projector and the ceiling lift. Only certified fixing material must be used.
- Whenever people work on the lift, they must not leave any objects (e. g. tools) back that could fall down.
- Danger of accident: Keep away from the movable parts (e. g. the concertina elements). You could suffer serious injuries.
- Do not keep inflammable materials close to the lift.
- The lift weighs up to 43 kg. Take suitable safety measures when mounting the lift (e. g. a working platform, a prop).
- Only an electrician is allowed to connect the lift to the mains (230 V, VDE 0100).
- When connecting the unit to the mains a relais that separates all the wiring and whose gap between the contacts is at least 3 mm must be installed in between in order to reach a complete power cut (VDE 0700).
- Unplug before maintenance works.
- The operating of the lift must always be supervised no matter how it is controlled. Install the main switch in sight distance of the device in order to be able to observe the lift when it is in operation.
- When choosing the installation place make sure that the minimum distance between the lift in its lowest position and the floor is not less than 2.5 m and that persons walking around do not collide with the unit.
- Damages due to vandalism, wrong handling, false wiring and ensuing consequences are not covered by the warranty.
- Please keep this manual for later use.

⚠ **Caution:**

Due to the construction the rope is normally wound up one-ply on the drum. Before switching the lift on for the first time make sure that the rope lies one-ply on the drum and does not intersect.

In case of an intersection lower the lift completely and let it cautiously move upwards again.

Caution, danger of being caught by the ropes on the motor shaft when the lift is in operation!

⚠ **WARNING:**

Danger of being squashed by the concertina mechanism when the lift is in operation

- Never touch the mechanical parts when the lift is moving
- Before mounting the projector disconnect the lift from the mains
- Carry out installation and maintenance only when the lift is switched off

Application

- The Kindermann ceiling lifts are electro-mechanical units with a concertina mechanism to raise or lower data/video projectors in conference and media rooms, i. e. to move them from a sleeping position into the projection mode and back.
- If mounted in a higher ceiling, the unit features an extra maintenance position.

General features

Extremely flat ceiling lift for all customary data/video projectors. Low noise movements with concertina mechanism, pre-installed power supply, spiral cable guide for safe power and data supply. The lift is powered by a single-phase condenser motor (230 V~/50 Hz) via a 3-gear maintenance-free planetary transmission and features an electronic safety switch. An electro-mechanical disc break allows exact stops. In case of a power blackout or when switching the unit off the full breaking power is available immediately.

Adjusting the two stop positions can be simply done with the help of an optional programming unit.

2. Specifications

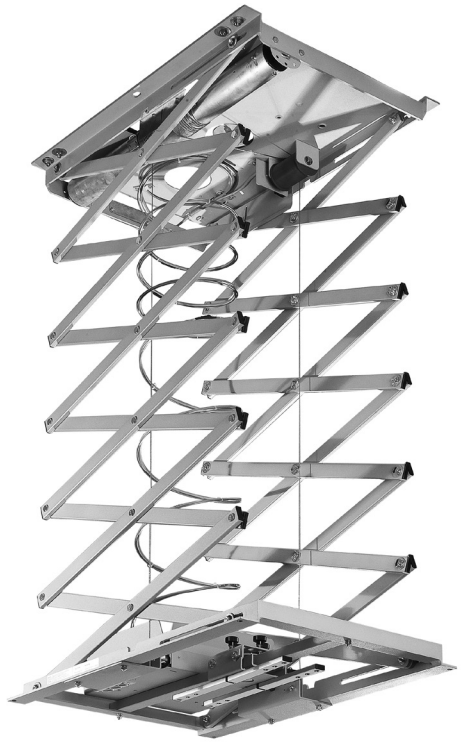
2.1 Technical data

Colour:	lift powder-coated, silver grey metallic (RAL 9006)
Installation depth:	**Pro 120/165/210/250/300/350:** measure A (see page. 20) + projector height
Projector mounting:	with drill holes (M3, M4, M5, M6) on projector bottom, range between drill-holes, range between drill-holes Ø 138 - 378 mm diameter
Lifting range:	measure B (see page 9: dimensions and illustrations)
Weight of the lift: (without projector)	according to model: approx. 33 kg (Pro 120) to approx. 43 kg (Pro 350)
Max. projector size:	50 x 65 x 20 cm (BxLxH), incl. space for connections
Max. projector weight:	30 kg
Power supply:	230 V~, 50 Hz
Power consumption:	max. 220 W
Minimum size at ceiling:	69 x 49 cm
Cutout of the ceiling:	74 x 54 cm
Cover frame:	adjustable steel plate

2.2 Scope of delivery

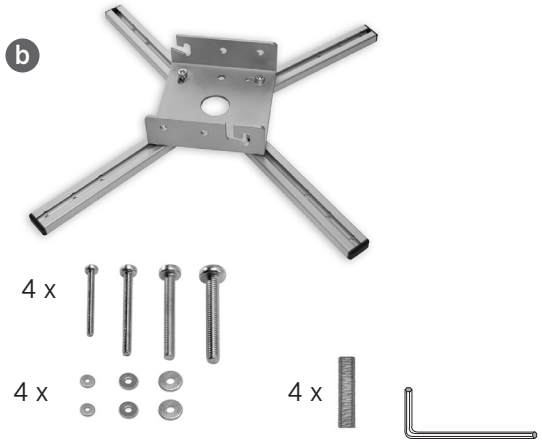
For safe transport the ceiling lift is not assembled.

a

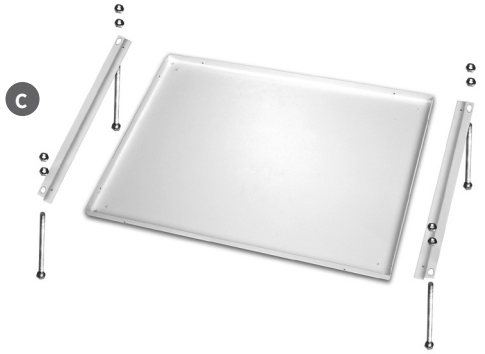


Upper frame to be mounted on ceiling via four oblong slots 12 x 20 mm, with complete electrical appliances, cable guide, concertina elements and lower frame with projector holder.

Supplied with flexible spiral for guiding and protecting the cables (in illustration shown assembled).



Universal carrying arms to be attached to projector holder
Allen key No. 4
4 sets of screws + washers M3, M4, M5, M6
4 distance bolts



Bottom tray with drill-holes for fastening screws M4 and 4 openings for adjusting the bolts
2 carrying arms with 2 fastening screws M4 each
4 bolts M10 x 300 mm
8 nuts M10

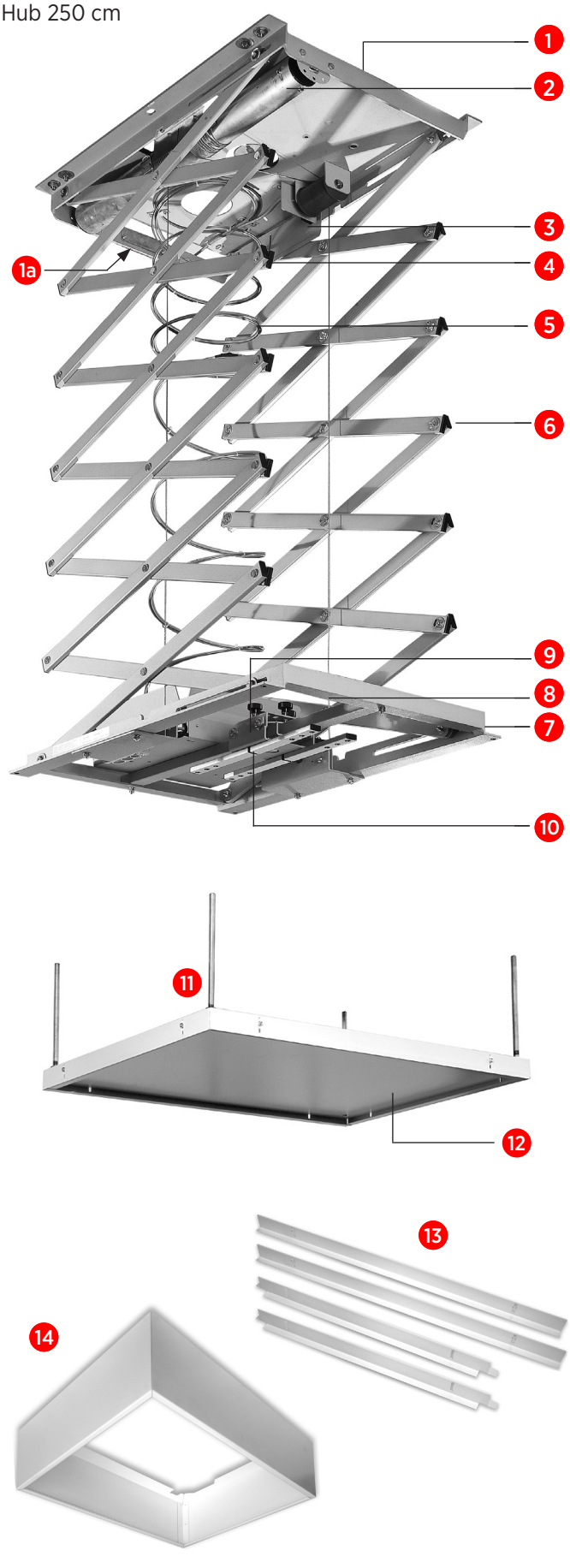
Fixing material for your ceiling construction is **not** supplied!

2.3 Accessories

- **7444 000 441 Button up/down Konnect alu,** for moving the lift up and down.
- **7464000 441 Button up/down Konnect flex,** for moving the lift up and down.
- **7466 000 100 Programming unit standard for Selve motors (models 7465 000 050/-051/-052),** with 4-pin connection cable / 230V~ schuko plug; for programming the stop positions.
- **7466 000 110 Programming unit electronic for Rojaflex motors,** with 4-pin connection cord / 230V~ Schuko plug, for adjusting the end positions (option).
- **7466 000 112 Programming unit electronic for Becker motors,** with 4-pin connection cord / 230V~ Schuko plug, for adjusting the end positions (option).
- **5699 000 020 Radio remote control,** sender and receiver for remote-controlling motorized lifts.
- **5699 000 021 IR remote control,** sender and receiver for remote-controlling motorized lifts.
- **5699 000 022 Motor control unit,** with 2 relay inputs.
- **5944 000 001 Key switch,** 230V~ for up/down control.
- **5944 000 002 Up/down switch,** 230V~ for up/down control, white, on-wall mounting.
- **5883 000 001 long spider arms,** for large projectors.
- **7465 000 020 T-profile frame,** for holding the cutout paneling; note: size of cutout changes to 752 x 552 mm.
- **7465 000 010 Metal paneling,** for visible mounting on the ceiling, 4 parts, height 40 cm, colour white (RAL 9003).
- **7465 000 016 Electronic on/off device for projectors,** switches projectors on or off automatically via RS232 standard control*, for projectors by Kindermann, Epson, Sanyo, Mitsubishi (ON/OFF/STATUS). With power supply 5 V DC. Control via safety switch in ceiling lift Pro.
  * if in doubt, please ask us as to compatibility.
- **7466 000 105 Programming unit Standard for SMI motor (models: 7465 000 053/-054/-055),** with 5-pin connection cable, for programming the stop positions, reusable.
- **7466 000 105 Programming unit Standard for SMI motor (models: 7465 000 063/-064/-065),** with 5-pin connection cable, for programming the stop positions, reusable.
- **7466 000 120 Programming unit for 4 positions with SMI motor (up, 2 projection positions, lower servicing positions),** consisting of SMI control unit, SMI interface, programming unit, power supply 24 V DC, 1 A.

2.4 Legend

Illustration
Model: Pro 250
Hub 250 cm

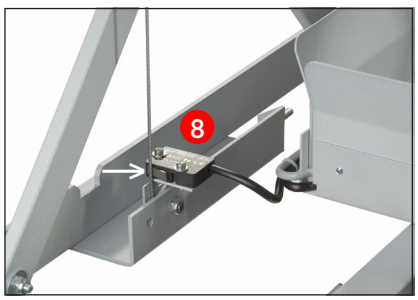


1. Upper frame with 6 drill-holes and distributor 1a for lift
2. Motor with winch
3. Adjustable panel for safety switch (projector)
4. Safety switch (projector)
5. Flexible spiral for complete cable guide
6. Concertina elements
7. Lower frame
8. Two opposite safety switches for tautening the rope
9. Adjustable projector holder
10. Universal carrying arms for projector holder
11. Bolt M10 x 300 mm with 2 nuts
12. Bottom tray with 2 carrying arms and 4 bolts (in illustration shown with cover)
13. Optional cover for holding the cutout panelling of the false ceiling
    No. 7465 000 020 for tray 12
14. Optional metal panelling for visible mounting on the ceiling
    No. 7465 000 010

⚠ ***Note:***

Please check the two safety switches 8 before mounting the lift resp. if the lift has hit an obstacle on its way – the towing rope must press the spring against the safety switch!

(see illustration)



3. Mounting the ceiling lift Pro

3.1 Preparations for ceiling mounting

Make sure that the construction of the ceiling is suitable for permanently holding the projector and the ceiling lift. Provide the necessary fixing material in special stroes. Use screw dimensions (M8) and steel plugs for concrete ceilings resp. suitable screws for wooden ceilings.

The construction of the ceiling should hold at least four times the maximum weight of the projector and the lift (4 x 50 kg). The surface of the real ceiling should be even and clean to keep the lift and the projector clear of any dirt particles.

Insulation material should be wrapped up with PE foil. It is recommended to build a box around the projector garage to protect against dust and to conceal the open space above the false ceiling when the lift is down. An additional maintenance flap in the ceiling would help.

It is ideal to mount a triple mains socket (230 V~) in the projector garage for the projector and additional units. The wiring should be deactivated via a mains switch. All the required video and audio cable as well as projector control cables have to be fixed according to standard regulations. The specifications of the electrical connections for the electrician follows in paragraph 4.

Different ways of mounting

The lift needs an **opening in the ceiling of at least 60 x 50 cm**. The cutout can be inserted into the optional T-profile frame. The required minimum installation depth must be guaranteed.

Choosing the installation place

Bevore opening the ceiling the proper installation place must be tested, ideally with the help of a test projection, as lens tolerances or misprints in picture size charts can happen.

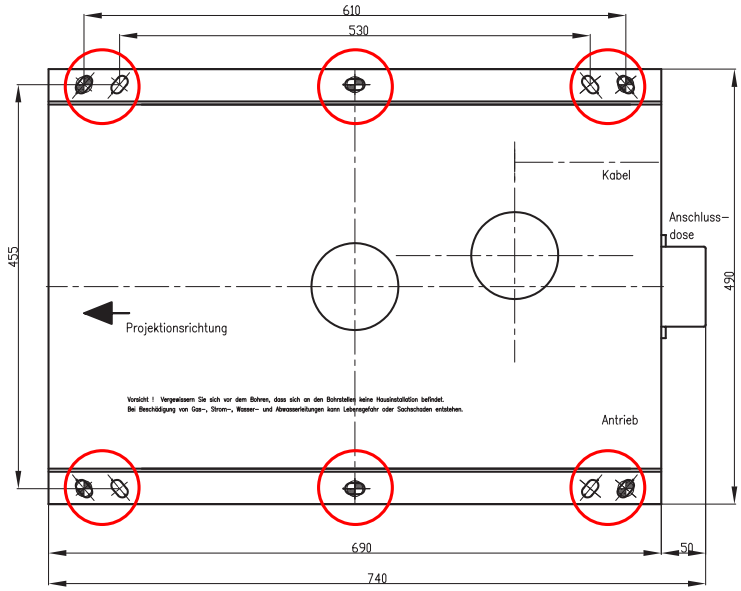
When deciding about the proper position of the lift, take into account that the front bar of the lift lies half way between the zoom range of the projector and the lens is directed towards the centre axis of the screen in a right angle. There should be a safety distance of 0.5 m between the installation place and any hot water pipes.

3.2 Mounting on real ceiling

Remove sufficient parts of the false ceiling around the installation place. Fix the supplied stencil for drilling with adhesive tape to the proper place, drill the holes 1 to 6 as indicated, remove the stencil, premount screws 1 to 4 but do not tighten them.

Take the ceiling lift out of its packaging, hang up the upper frame at the screws 1 to 4 and make sure that the lift can't drop. Now insert the other screws and tighten them all (1 to 6). Remaining drillings are alternatively only. Make sure that the lift is in horizontal position after mounting.

Stencil for drilling



Note:

If you want to use a cover frame (No. 7465 000 020) for the panel of the opening in the false ceiling, you must provide slots in the panel for the four fastening screws and the four bolts of the bottom tray, so that it can be taken off in case of a damage.

3.3 Mounting the lift on a false ceiling

⚠ ***Note:*** *Remove a sufficiently big part of the false ceiling in order to make enough room for installing the lift.*
Do not mount the projector and the bottom tray (12) ***yet!***

➡ **the opening must be 740 x 540 mm**
The distance between the false ceiling and the ceiling must be at least 40 cm
If the cover frame (No. 7465 000 020) is used, the opening must be 752 x 552 mm

⚠ ***Note:***
When deciding about the proper position of the lift, take into account that the front bar of the lift lies half way between the zoom range of the projector in relation to the screen size and the lens is directed towards the centre axis of the screen. Once the installation is finished the projector can only be adjusted horizontally and vertically.

4. Connection to mains / Programming

The connection with the power supply should be via a junction box, possibly close to the lift, so that there is easy access in case of a breakdown, and via the distributor socket on the upper frame (1) of the device.

All wiring goes through the appropriate opening in the upper frame and through the pre-mounted cable channel within the lift. The projector cord is guided by the flexible spiral. After finishing the wiring fasten all the cables along the spiral with the help of the supplied insulation material. Thus the cords cannot be squeezed or otherwise be damaged by the concertina elements. Do not forget to fix the cable at the beginning of the spiral.

Normally the projector is connected to the inbuilt safety switch (4) – exception: operation via media control system – and is therefore disconnected from the mains when in complete upward position.

⚠ **Connection of the unit to the mains must only be done by an electrician. Never use damaged devices.**
Before mounting the lift check the specifications on the lable with thoses of the local power supply.
Do all mounting and maintenance works with the power supply switched off.

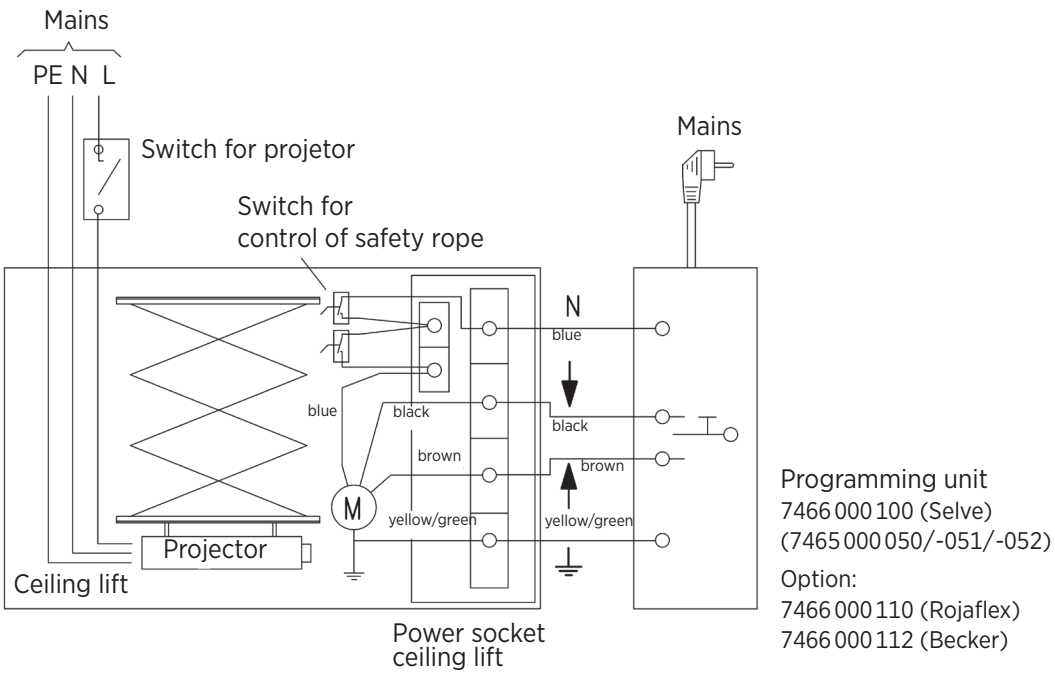
4.1 Connection to programming unit

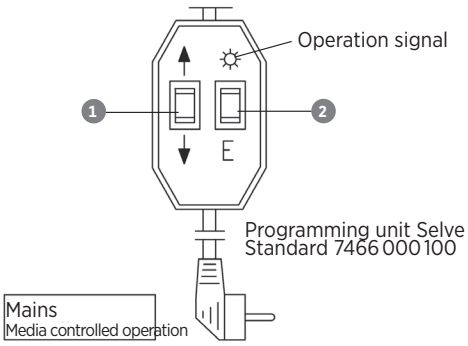
4.1.1 Ceiling lift Pro 120/165/210 (7465 000 050/-051/-052)

The motor of the ceiling lift is a reversal single phase condensor motor, similar to the ones used for shutters, with integrated electronic stop switches, brake and transmission.

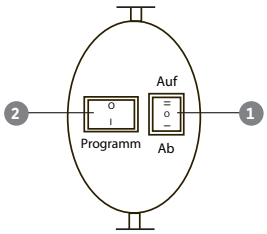
Guide the 4-pin motor cable to the socket and connect the programming unit according to the following circuit diagram.

Circuit diagram programming unit

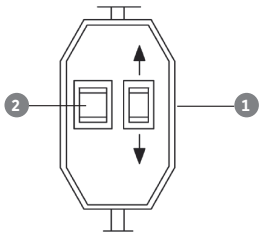




for models:
7465 000 050/-051/-052



Programming unit
Rojaflex 7466 000 110
(option)



Programming unit
Becker 7466 000 112
(option)

4.1.2 Ceiling lift Pro 250/300/350

Power supply

The motor of the ceiling lift is a reversal single phase condensor motor, similar to the ones used for shutters, with integrated electronic stop switches, brake and transmission.

The lift can be controlled via:

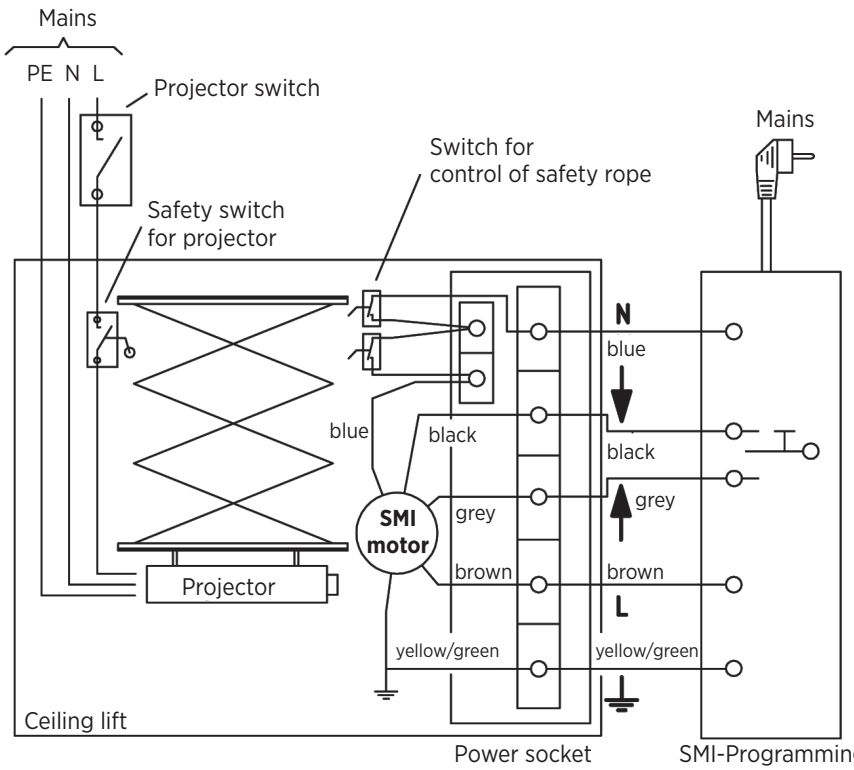
- ➡ Radio remote control No. 5699 000 020
- ➡ IR remote control No. 5699 000 021

- ➡ Key switch No. 5944 000 001
- ➡ Switch/button up/down No. 5944 000 002

- ➡ relays contact of a media control system (e. g. Kindermann, AMX, etc.) No. 5699 000 022
- ➡ RS232 interface for SMI No. 7465 000 120

Circuit diagrams

- ➡ **Programming unit with SMI motor** for Pro 250/300/350 – No. 7465 000 053/-054/-055/-063/-064/-065



Power socket
ceiling lift

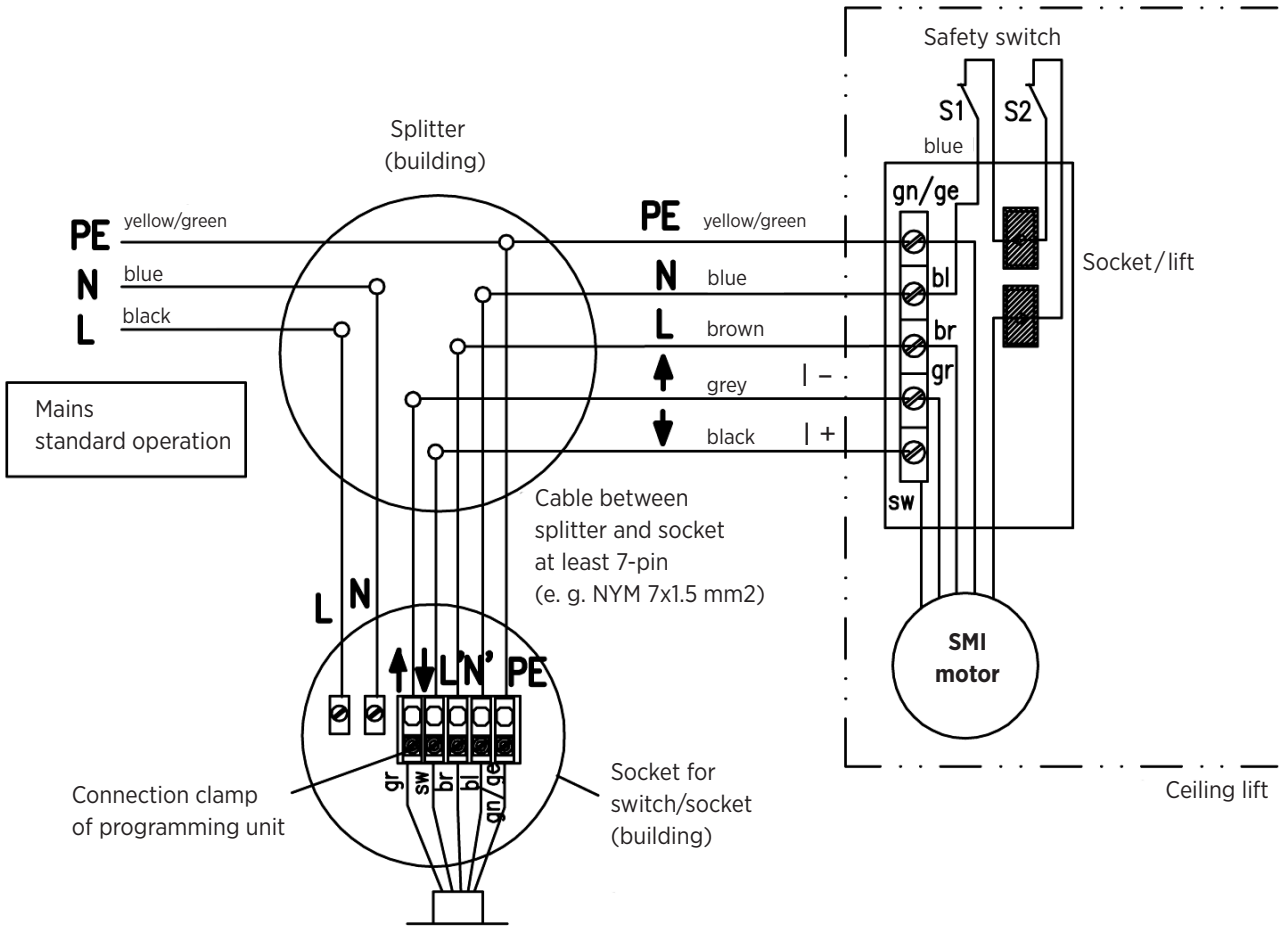
SMI-Programming unit
No. 7466 000 105
for model 7465 000 053/-054/-055

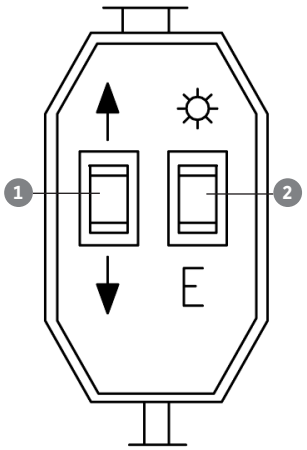
No. 7466 000 106
for model 7465 000 063/-064/-065

Circuit diagram - programming unit

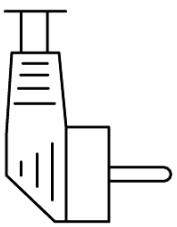
➡ **Programming unit with SMI motor for Pro 250/300/350 (Nr. 7465 000 053/-054/-055/-063/-064/-065)**

with 2 possible projection adjustemts



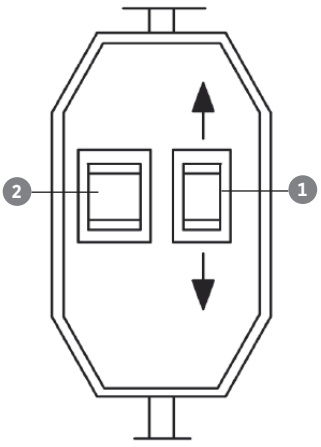


Programming unit
for Selve
Standard SMI
No. 7466 000 105



Mains

for models 7465 000 053/-054/-055



Programming unit
Becker SMI
No. 7466 000 106
for models 7465 000 063/-064/-065

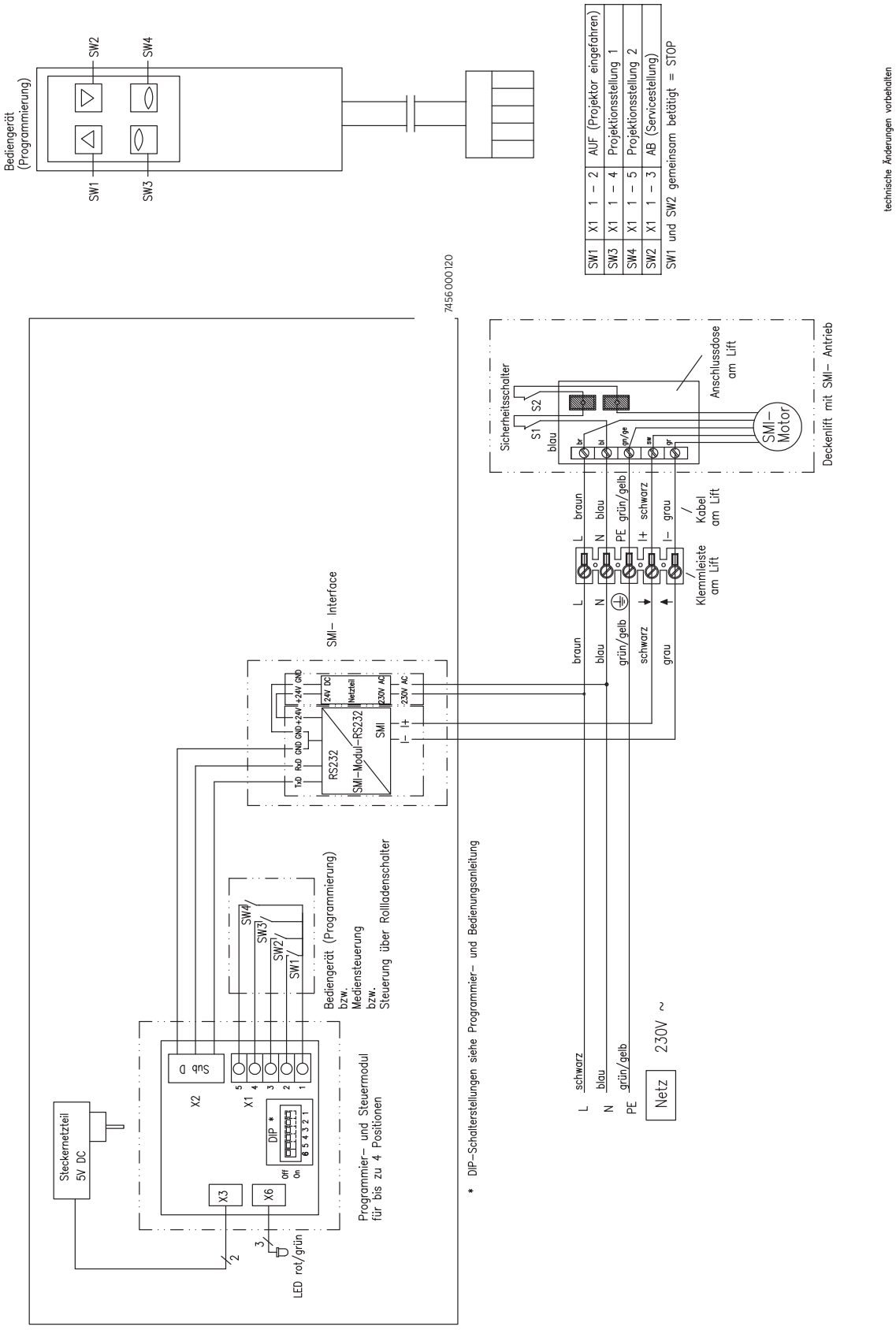
Circuit diagram - programming unit

SMI motor for adjusting 3 – 4 possible stop positions of Pro 250/300/350 (No. 7465 000 053/-054/-055/-063/-064/-065)

The adjustments are home position, service position and 1 – 2 projection positions

Circuit diagram

➡ **SMI motor with programming unit for 4 positions – No. 7465 000 120**



4.2 Mounting the projector

4.2.1 Prerequisites of the projector:

Three or four drill-holes (M3, M4, M5 oder M6) on the bottom, distance between the drill-holes between 138 and 378 mm.

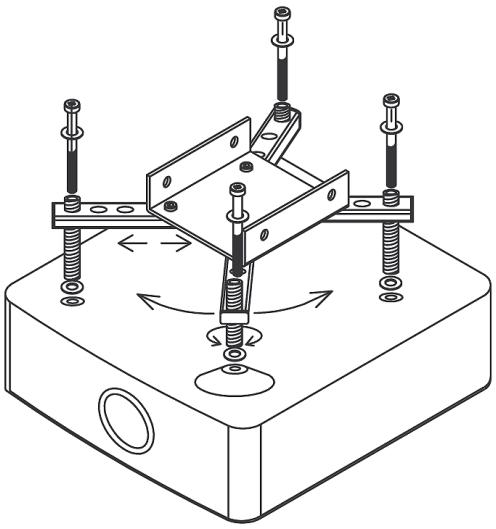
Max. projector weight: 30 kg

Mounting with only 3 carrying arms is possible.

Supplied with:

4 threaded distance rolls,

4 sets of screws with washers M3, M4, M5, M6.



4.2.2 Mounting the projector holder

Put your projector upside down on a soft surface.

Loosen the variable arms of the projector holder with a six box spanner.

Adjust the arms to the drill-holes of your projector,
insert the distance elements and fasten them with the appropriate set of screws.

Hanging the unit into the lift

For hanging the unit into the lift, slightly insert two of the four screws M6 with washers in the counterpart of the projector holder 9 and attach the unit. Then secure it with the other two screws M6 and the washers and fasten all the four of them.

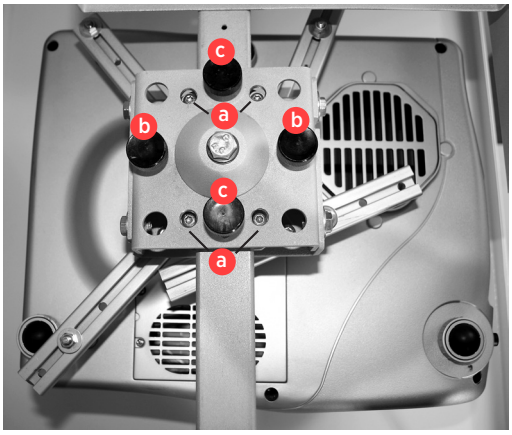
4.2.3 Fine adjustment of the projector

After loosening the screws a the holder 9 with the projector can be repositioned in the lift.

Vertical adjustment is possible after loosening the screws b.

Horizontal adjustment is possible after loosening the screws c.

Fasten all the screws for securing the adjustment.



4.2.4 Mounting the bottom tray of the lift

Insert the four bolts 11 in the two carrying arms 12 and slightly turn on 2 nuts (M10) each. Now fasten the two carrying arms 12 to the bottom tray of the lift 12 with two screws M4 each.

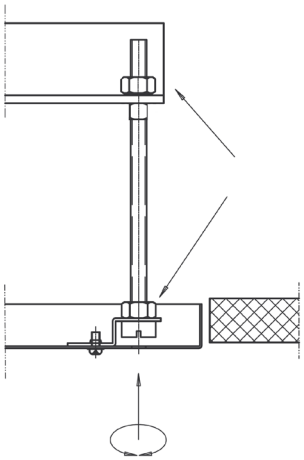
Lift the pre-mounted bottom tray to the lower frame 7, so that the four bolts engage in the drill-holes of the frame.

Make sure that the four bolts are inserted in a way that they stick out of the frame 7 1.5 cm. After the fine adjustment two nuts each secure the construction.

⚠ ***Note:***

If the lift is in its upper stop position, this can be adjusted (ca. 5 mm) by rotating the bolts 11 with a screw driver through the drill-holes in the bottom tray.

To this effect loosen the two nuts on the bolts and fix them again after adjustment.



4.3 Adjusting the stop positions of the lift

The lift is delivered with two preprogrammed stop positions:

Stop position 1 Lift is in sleeping position
Stop position 2 Lift is in projection mode

4.3.1 Ceiling lift Pro 120/165/210

To programme new positions use the optional programming unit Standard (7466000100) 7466000100 (Selve) for 7465000050/-051/-052 or optional (7466000110) for Rojalift or (7466000112) for Becker.

⚠ **During the programming the voltage is exclusively supplied via the mains plug of the programming unit. There must not be any other electrical connection to the mains (danger of short circuit!).**

4.3.1.1 Programming unit Standard for Selve and Becker

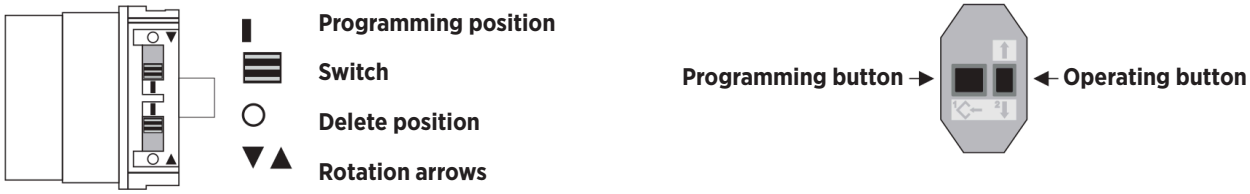
IInstall the unit according to the attached circuit diagram (paragraph 4.1). Make sure that the colours of the installation cables are identical with the colours of the motor cable. Connect with the mains only after completing the installation!

Adjusting the stop positions:

1. Press button E (2) for at least 6 seconds. The motor switches into adjustment mode. A short stop after the start indicates the adjustment mode!
2. Drive to the bottom end position (projection position) by pressing button ↓ (1).
3. Press button E (2) for at least 3 seconds, the bottom end position (projection position) is set.
4. Drive carefully to top end position by pressing button ↑ (1) (home position, the lift is up). Attention: Do not let the lift crash against the ceiling construction!
5. Press button E (2) for at least 3 seconds. Top end position (home position) is set.
6. After adjusting the unit you should make a test drive. If the ceiling lift stops at the programmed end positions, the programming has been carried out correctly.

⚠ **Attention: During the programming the voltage is exclusively supplied via the mains plug of the programming unit. There must not be any other electrical connection to the mains (danger of short circuit!).**

Note: Becker motor (option)



If necessary, the position of the switch on the motor head must be checked or changed. See attached motor manual.

4.3.1.2 Programming unit for Rojaflex (option)

Install the unit (7466000110) according to the attached circuit diagram (paragraph 4.1). Make sure that the colours of the installation cables are identical with the colours of the motor cable. Connect with the mains only after completing the installation!

Adjusting the stop positions:

1. Lower end position (projection mode) by pressing button down ↓ (1).
2. Adjust the lower end position by pressing the programming button (2) for 2 seconds and then button down ↓ (1) for 2 seconds. The lower end position (projection mode) is set.
3. Drive carefully to top end position by pressing button up ↑ (1) (home position, the lift is up). Now press the programming button (2) for 2 seconds and then button up ↑ (1) for 2 seconds. The top end position (sleeping position) is set
4. After adjusting the unit you should make a test drive. If the ceiling lift stops at the programmed end positions, the programming has been carried out correctly.

4.3.2 Ceiling lift Pro 250/300/350

Adjusting the stop positions, service position and projection positions

4.3.2.1 Adjusting the stop postions of Pro 250/300/350 – No. 7465 000 053/-054/-055/-063/-064/-065

First the stop positions have to be programmed, otherwise the lift positions (1 and 2) cannot be programmed.

Stop position 1 Lift is in sleeping position
Stop position 2 Lift is in projection mode

For programming new adjustments the following programming units are available:
No. 7466 000 105 for Selve motors (7465 000 053/-054/-055)
No. 7466 000 106 for Becker motors (7465 000 063/-064/-065)
(connections see page 10).

⚠ Attention:
In programming mode the motor gets the power supply via the Schuko plug.
E. g. there **must not be** any L and N wire mains connection.

Programming unit

Install the unit according to the attached circuit diagram (paragraph 4.1). Make sure that the colours of the installation cables are identical with the colours of the motor cable. Connect with the mains only after completing the installation!

Adjusting the stop positions:

1. Press button E (2) for at least 6 seconds. The motor switches into adjustment mode.
   A short stop after the start indicates the adjustment mode!
2. Drive to the bottom end position (projection position) by pressing button ↓ (1).
3. Press button E (2) for at least 3 seconds, the bottom end position (projection position) is set.
4. Drive carefully to top end position by pressing button ↑ (1) (home position, the lift is up).
   Attention: Do not let the lift crash against the ceiling construction!
5. Press button E (2) for at least 3 seconds. Top end position (home position) is set.
6. After adjusting the unit you should make a test drive. If the ceiling lift stops at the programmed end positions, the programming has been carried out correctly.

4.3.2.2 Adjusting the stop positions, service position and projection positions of Pro 250/300/350 - No. 7465 000 053/-054/-055/-063/-064/-065

For programming more than 2 positions, the programming unit No. 7465 000 120 is required. It can also be used for later controls.

PROCEDURE:	***STATUS:***	***FINAL STATUS:***
Call programming mode for stop positions Put DIP 5 and DIP 6 to ON	LED is red	All stop positions cancelled
Call programming mode for lower stop position (service position) Drive to lower stop position with the command “AB” (SW2) (= down ↓) Take over the position with button SW3	LED is red	Lower stop position stored
Call programming mode for upper stop position Drive to upper stop position with the command “AUF” (SW1) (= up ↑) Take over the position with button SW3 Set DIP 5 and DIP 6 OFF	LED alternates between red and green No display	Upper stop position stored

⚠ ***NOTE: A short stop after starting the motor signalizes the adjustment mode. The two LEDs red/green mark the current programming status.***

Call programming mode for pos. 1 DIP 5 to ON (DIP 6 to OFF) Drive to projection position 1 with the command AUF/AB (SW1/SW2) (= up ↑/ down ↓) Take over the position with button SW3	LED red is blinking LED is green for 3 seconds Afterwards LED blinks till DIP 5 switches to OFF	Pos. 1 stored
Call programming mode for pos. 2 DIP 6 to ON (DIP 5 to OFF) Drive to projection position 2 with the command AUF/AB (SW1/SW2) (= up ↑/ down ↓) Take over the position with button SW3	LED green is blinking LED is green for 3 seconds Afterwards LED blinks till DIP 6 switches to OFF	Pos. 2 stored

4.4 Mains connection of the control unit

⚠ Safety instructions:

- The switches and controls must not enable simultaneous up and down commands. This would damage the unit. Only use mechanical or electrical switches!
- There must be an interval of more than 0.5 seconds between an up and down command. Otherwise high voltage could damage the motor.
- Condensor motors are suitable only for short time operaqtion (approx. 4 minutes). If the motor is overheated during a test drive or when in operation, it is switched off automatically. In such a case let the motor cool down approx. 15 minutes.
- Check whether the two carrying ropes are of the same length and are wound up tightly and orderly on the shaft of the motor.
- Make sure that the projector is brought in upward position only after it has been switched off and has cooled down.
- If the lift is operated by a media control, the programming of the media control must be done likewise and the safety instructions must be observed.
- Die SMI Programmieranschlüsse dürfen nicht mit 230V beaufschlagt werden.

⚠ Attention: The parallel wiring of several condenser motors is not allowed (ceiling lift, electrical screen...). In such a case use a splitter with separate inputs for each motor..

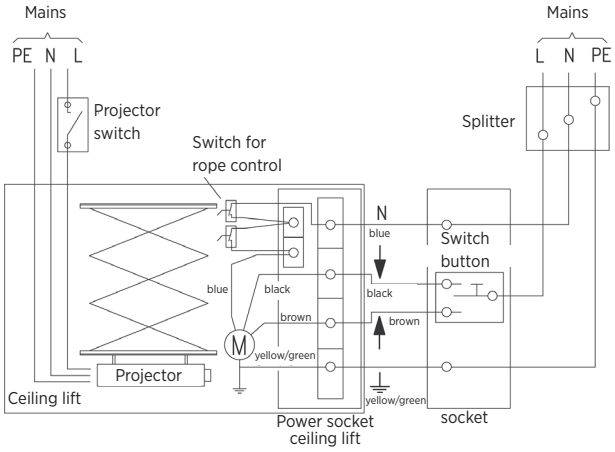
4.4.1 Ceiling lift Pro 120/165/210

The lift can be controlled via:

1. Switch/button up/down (5944 000 002)
2. Key switch (5944 000 001)
3. Radio remote control (5699 000 020)
4. IR remote control (5699 000 021)
5. 2 relays contacts of a media control system and a motor control unit (5699 000 022)

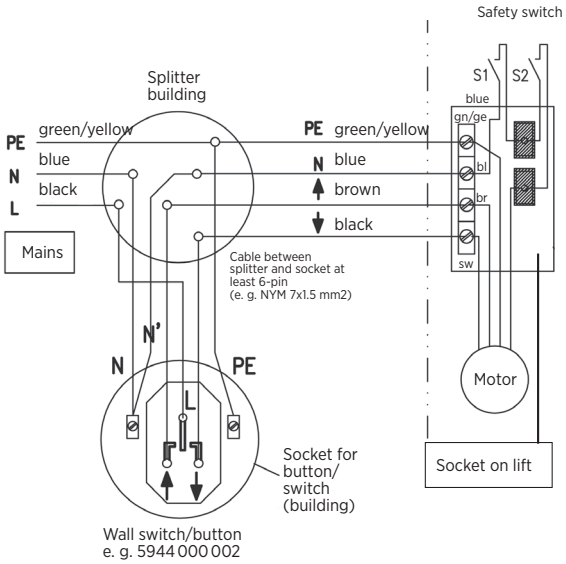
After adjusting the stop positions you must disconnect the external programming unit and connect the wiring of the motor according to the following circuit diagram.

Circuit diagram installation of switches/buttons



Pro 120/165/210

Wiring diagram installation of switches/buttons

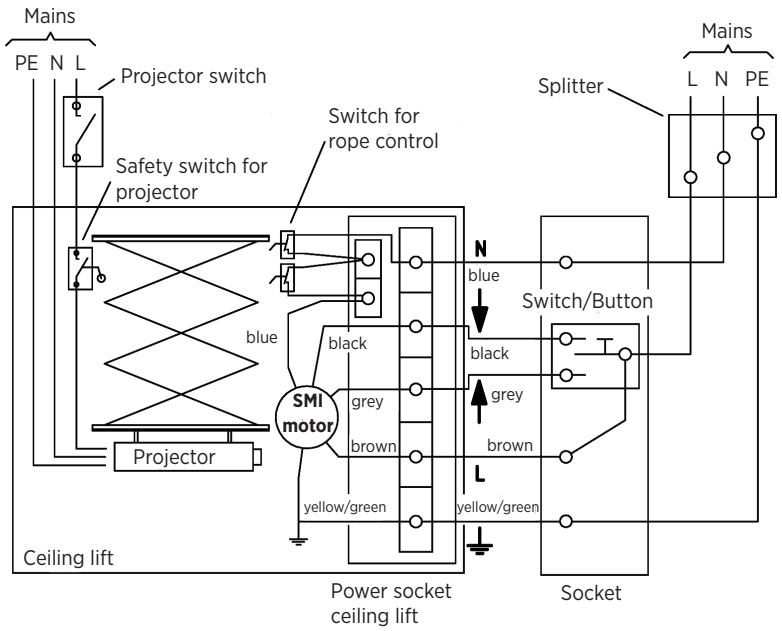


⚠ Attention: *Make sure that the wiring of the motor control is not mixed up (brown=up, black=down) when inserting the cables for the switch/button (up/down)to the lift. Use only certified protected cables.*

4.4.2 Ceiling lift Pro 250/300/350

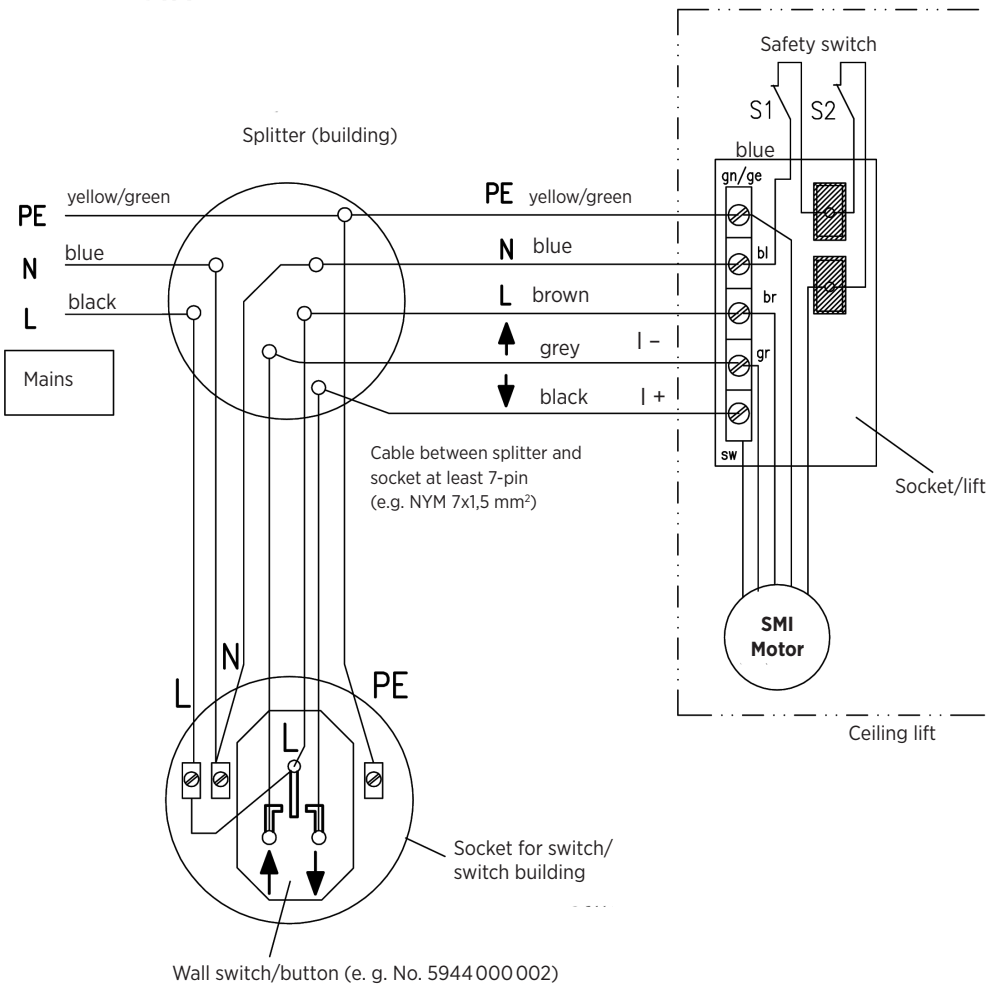
4.4.2.1 Circuit diagram - Outlet socket

➡ **Installation switch/button with SMI motor** for Pro 250/300/350 – No. 7465 000 053/-054/-055



4.4.2.2 Circuit diagram – Mains operation

➡ **Installation switch/button with SMI motor** for Pro 250/300/350 – No. 7465 000 053/-054/-055/-063/-064/-065

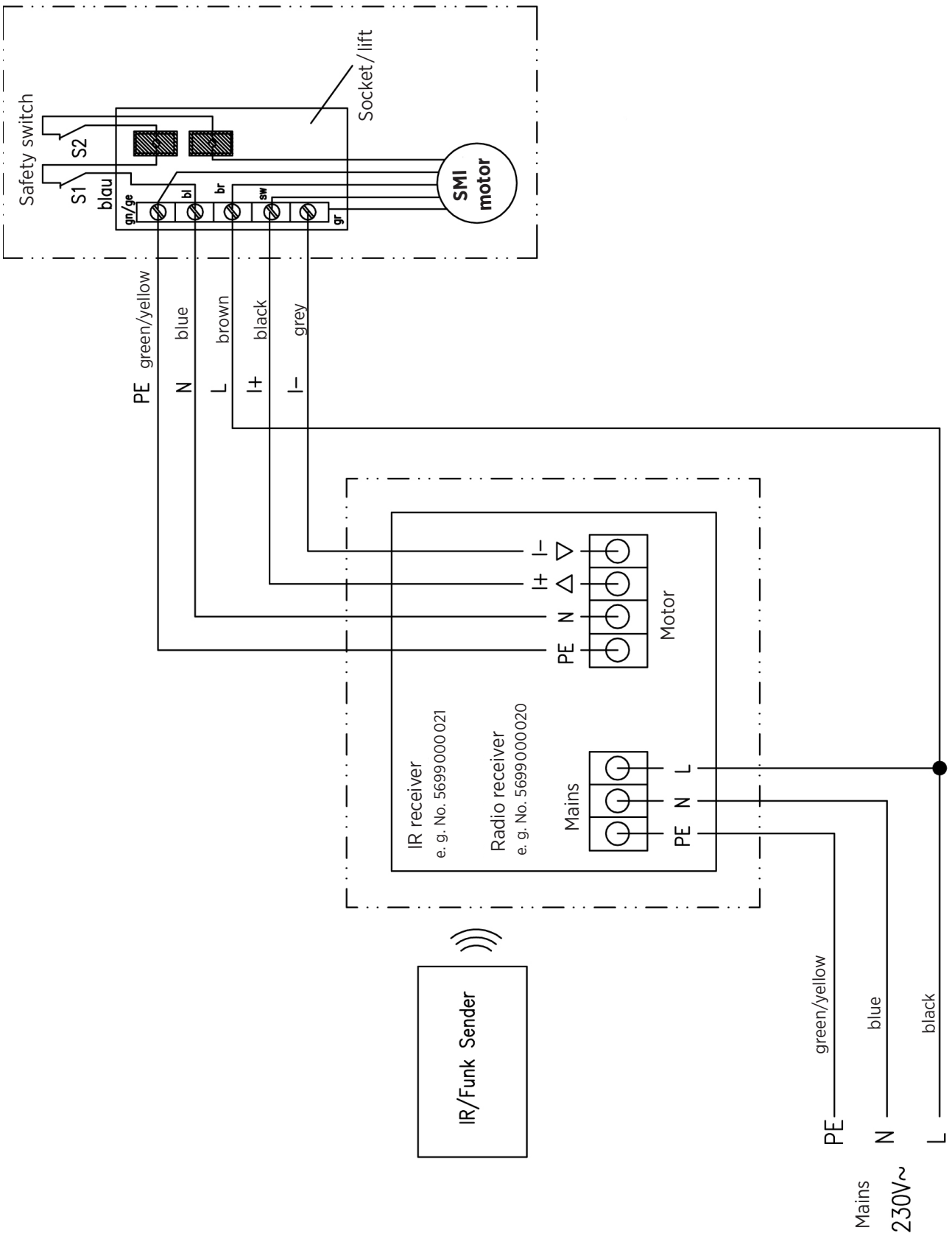


⚠ ***Note:***

- ***The Becker SMI motor must only be operated via motor control units, which do not continuously operate the connections I+ and I- with 230 V continuously. An operation with switch/button is not allowed for these motors!***
- *Do not mix up the motor control wires (I+ / I-) at the connection points when installing the wires switch/button (ON/OFF) to the lift!*

Circuit diagram with IR- or radio remote control

➡ for Pro 250/300/350 – No. 7465 000 053/-054/-055/-063/-064/-065



⚠ ***Note:***

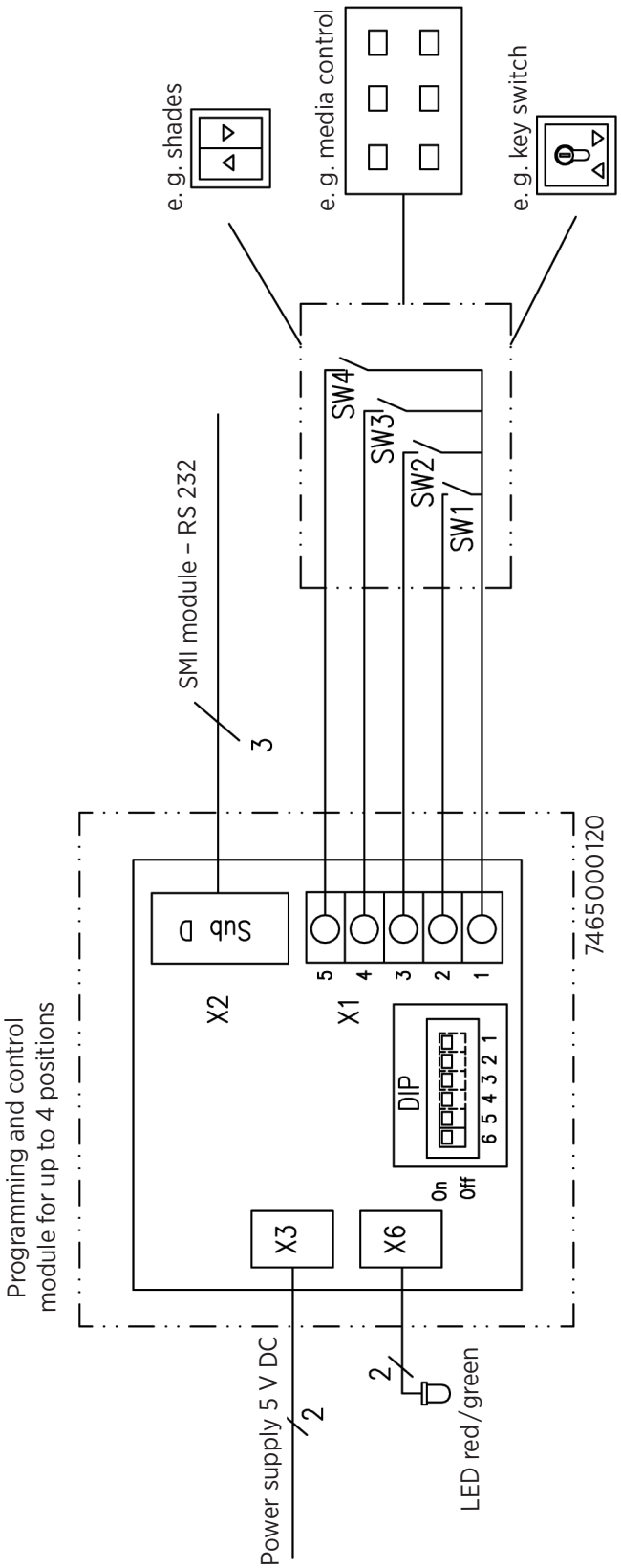
The motor control units No. 5699000020/-021/-022 have a maximum operation time of 5 minutes. When changing the direction there is an automatic break.

4.5 SMI motor for adjusting the 3 – 4 stop positions

The adjustments are home position, service position and 1 – 2 projection positions

Circuit diagram

➡ **SMI motor with operating elements, e. g. shades, media control, key switch**



DIP switches see manual

SW1	X1 1 – 2	AUF (=up ↑) (projector in sleeping position)
SW3	X1 1 – 4	projection position 1
SW4	X1 1 – 5	projection position 2
SW2	X1 1 – 3	AB (=down ↓) (service position)

5. Maintenance

The safety and reliability of the ceiling lift must be checked at least once a year. The check comprises all mechanical parts, steel ropes, cable connections, screws. Especially the steel ropes must not be worn out, broken or bent. The two carrying ropes must run freely and simultaneously and should be free of any other damages.
Damaged parts must be exchanged immediately!

6. First aid in case of malfunctions

➡ Lift does not react to UP or DOWN command, no function

- Check the micro switch of the rope control: both micro switches on the carrying rope must be inserted in the tightened rope.
- Lift beyond the stop position so that the concertina elements are extremely opened and the carrying ropes are loose: move the lift back until the ropes are tightened; press the micro switch.
- Motor overheated in operation, power cut via thermo switch; let the motor cool down for approx. 15 minutes (only short time operation of 4 minutes possible).
- Brakes are blocked (motor makes noises): Contact the service team.
- Lift in upward position cannot be lowered again: Take off the ceiling plate, check if the lift was moved above the upper stop position (error) and was blocked. Try to pull down the lift while giving the DOWN command, to loosen the mechanical blockage. Programme the upper stop position anew..

➡ UP and DOWN mixed up

- Control cables are mixed up: Separate the unit from the mains and exchange the wiring.

7. CE certificate

CE

Konformitätserklärung

Name und Anschrift des Herstellers:	Kindermann GmbH Mainparkring 3 D - 97246 Eibelstadt
erklärt, daß das Produkt:	
Produktname:	Deckenlift Compact²: 7466 000 150, -151
Modellnummer:	Pro: 7465 000 050, -51, -52, -53, -54, -55 Pro XL: 7465 000 100, -101, -102, -103, -104, -105

den folgenden Produktvorschriften entspricht:

Sicherheit:	EN 60335-1:2012 EN 62233:2008
EMV:	EN 55014-1:2000 + A2 : 2002 EN 55014 - 2:1997 + A1:2001 EN 61000-3-2: 2006 EN 61000-3-3: 2008 EN 55022:2010; EN 300220-3:2001
RoHS2:	EN 50581:2012

Zusätzliche Informationen:

Die Produkte entsprechen den Anforderungen der Niederspannungs-Richtlinie 2006/95/EC, der EMV-Richtlinie 2004/108/EC, der MRL 2006/42/EG und der ElektroStoffV 2011/65/EU.
Modelle mit Funkempfänger entsprechen der R&TTE 1999/5/EC Richtlinie.

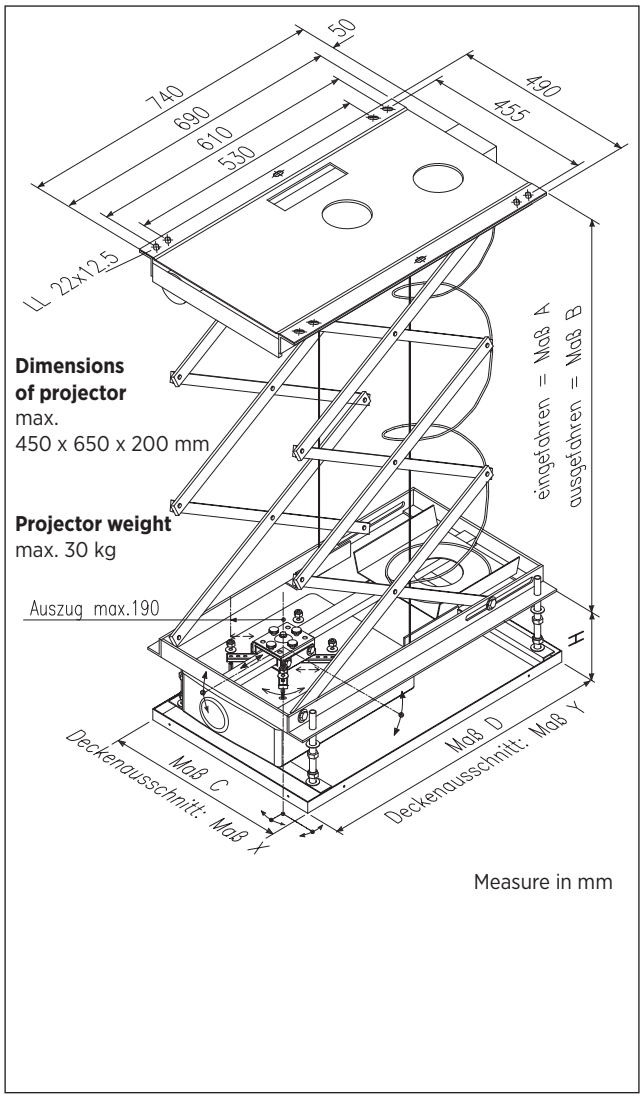
Eibelstadt, den 15. Dezember 2014

i.V.

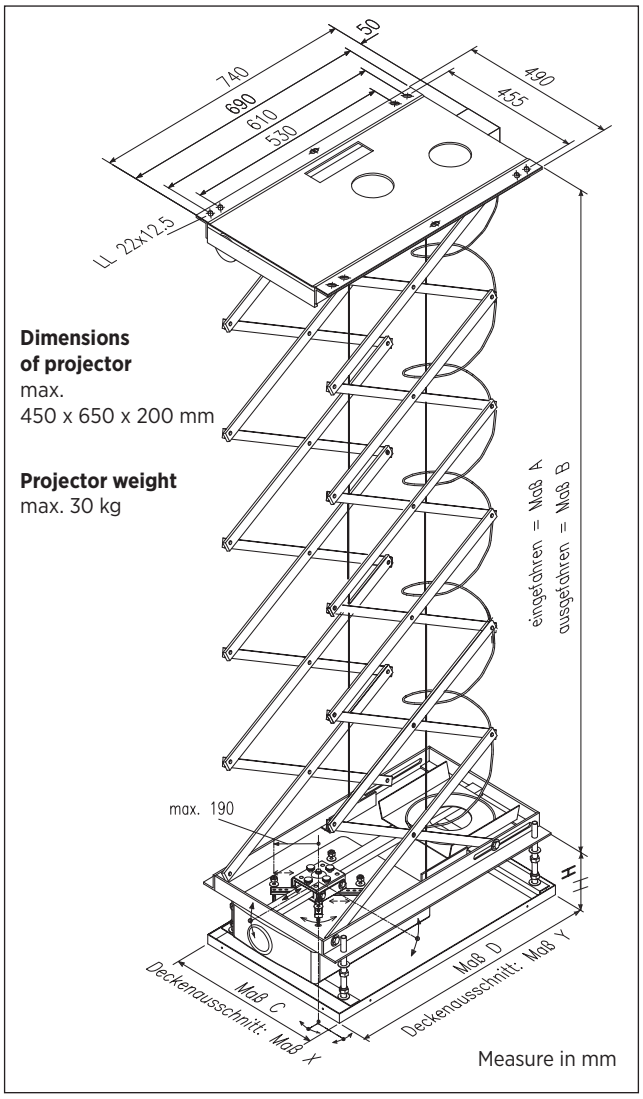
CE-Koordinator

8. Dimensions and illustrations

Ceiling lift
Pro 120 – No. 7465 000 050



Ceiling lift
Pro 250 – No. 7465 000 053



Measure H = projector height + min. 50 mm distance to ceiling plate
Required distance between false ceiling and ceiling = measure A + measure H

Ceiling lift Pro	Ceiling panel measure C	Ceiling panel measure D	Ceiling cutout measure X	Ceiling cutout measure Y	Projector space (incl. connection cables)
with ceiling panel (without cover frame No. 7465 000 020)	528 mm	728 mm	540 mm	740 mm	450 x 650 x 200 mm
with ceiling panel (with cover frame No. 7465 000 020)	528 mm	728 mm	552 mm	752 mm	450 x 650 x 200 mm

Ref. No.	Number of concertina elements	Max. lifting range	Measure A (lifted)	Measure B (unlifted)
7465 000 050	3	120 cm	16 cm	136 cm
7465 000 051	4	165 cm	19 cm	184 cm
7465 000 052	5	210 cm	22 cm	232 cm
7465 000 053/-063	6	250 cm	25 cm	275 cm
7465 000 054/-064	7	300 cm	28 cm	328 cm
7465 000 055/-065	8	350 cm	31 cm	381 cm