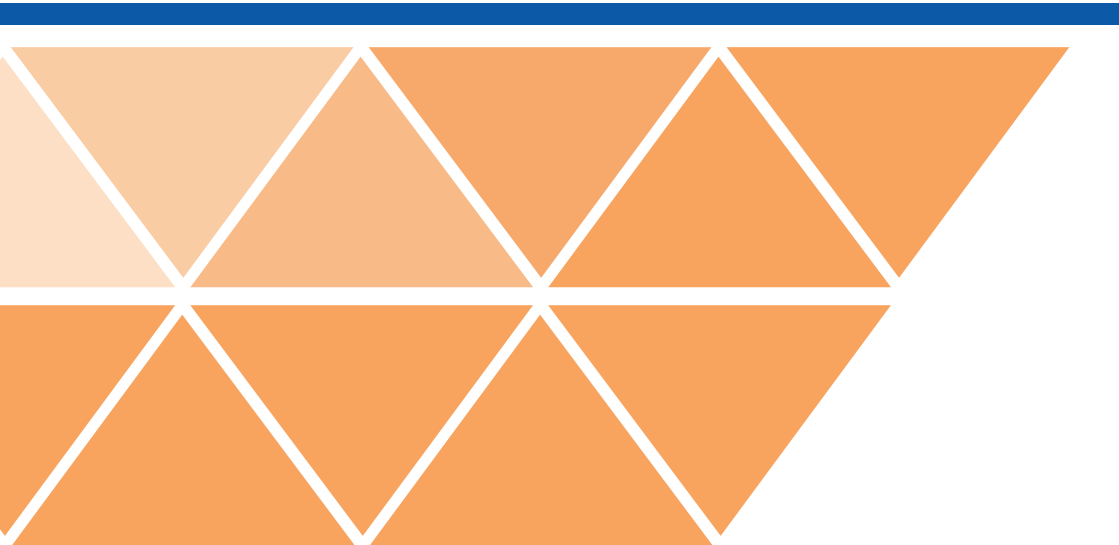


Operation Manual

Radio remote control - RCU

Frequency: 433.92MHz



REEL TECH

Lighting-Lifts

General

Thank you for choosing this product.

Please read this user manual carefully before installing or handling the product!

This manual was created and published under the supervision of ReelTech Vertriebs GmbH. The installation and operating instructions contain the technical data and product information according to the current status before publication.

ReelTech Vertriebs GmbH reserves the right to make changes to specifications and the materials contained herein.

ReelTech assumes no liability for obvious printing and typographical errors.

The manufacturer accepts no liability for damage due to:

- Failure to follow this manual
- Improper use
- Improper assembly or repairs
- Opening the device (breaking the seal)
- Technical changes
- Use of unapproved spare parts



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Safety regulations



We expressly point out that people are not allowed to stay in the effective area of the lifts during operation.

This must be ensured by the operating personnel before each start-up!

Please read this manual carefully.

We assume no liability for consequential damage resulting from use. We assume no liability for property damage or personal injury caused by improper handling or non-observance of the instructions. In such cases, any warranty claim expires.

- It is forbidden to transport persons or animals with a lift.
- The operator must always act in accordance with the manual.
- The operator must provide the necessary instruction of the operating staff.
- Lowering without energy is not possible.
- Excessive jogging (e.g. giving the motor short pulses) is to be avoided.
- It is forbidden to carry loads in excess of those on the nameplate specified carrying capacity.
- The lighting lifts may not be operated without the minimum weight specified on the type plate.
- It is not permitted to move fixed or jammed loads.
- Loads must not be lifted or lowered at an angle.
- Visual contact with the load is essential during operation being held.
- A visual rope inspection must be carried out with every operation.
- If damage is found to the steel cable, the light lift must be taken out of service immediately.
- The steel cable must be replaced after 100 cycles (excluding LSI series).
- In the case of multi-contact lifts, before lowering the lifts, the power supply to the auxiliary contacts must be disconnected!
- If the weight of the load plate has been removed, before the load is lifted, the load plate is initially approx. 0.5 m to lower! This avoids the formation of unwanted loops on the suspension cable.



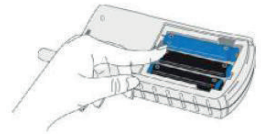
For applications that can affect the safety of human life, it should be noted that there is always a risk of interference with wireless connections.

First steps

1. Take the RCU out of the box.
2. Slide the cover on the back and insert the three AAA batteries supplied into the battery compartment.



Pay attention to correct polarity!
Only use 1.5 V alkaline batteries!

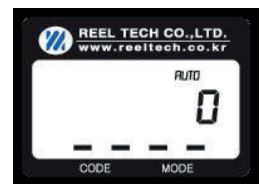


The used batteries must not be disposed of with household waste, but must be taken to a used battery collection point. Use the public waste disposal authorities or the containers with the GRS symbol provided by retailers.



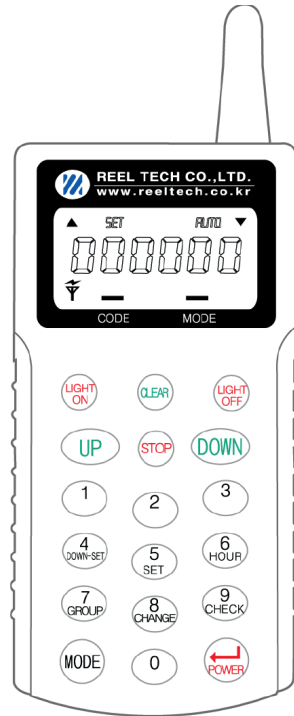
Notice: When delivered with WSE (factory system setting and programming) the RCU is already programmed. In this case, the serial number cannot be changed. If delivered without WSE, continue with step 3.

3. The RCU is now ON and shows a 0 and four dashes.
4. First enter any serial number from 1-9999 and write it down on p.20.
5. Confirm the entry with the "POWER" button.
6. This serial number, once defined, is displayed each time the RCU is switched on.



Key assignment

-  Switches the radio remote control on or off
-  Turns on the lights
-  Clears the entry on the display
-  Turn off the light
-  Raise the load plate
-  Lowers the load plate
-  Stops the load plate
-  Programming menu
-  Group mode
-  Selection via the lift serial number
-  Display of the stored lift serial number
-  Used together with the following keys    



Enter device address(es) and serial number(s)

Notice: When delivered with WSE (factory system setting and programming), the RCU is already programmed, all lifts are already registered in the RCU (continue with page 10).

In the case of delivery without WSE, the serial numbers of the lifts must first be programmed into the RCU remote control, proceed as follows:

Example 1: Devices with consecutive serial numbers

10 devices with consecutive serial numbers (e.g. 500001-500010) should be programmed as lifts 1 to 10:

Step 1: Programming mode

Press "MODE" and then "Key5"



Step 2: Password entry

Immediately enter the password "9999" (the password cannot be changed)



Step 3: Enter the serial number

Enter the first serial no. of the lifts (here 500001) and confirm the entry with "POWER"



Step 4: Enter the start address

Display A1-0: Enter the Start address "1" for lift no.1 and confirm the entry with "POWER"



Step 5: Entering the end address

Display A2-1: Enter the end address (address of the last lift) "10" and confirm with "POWER"



Please always pay close attention to the numbers shown on the display.

Notice: If a single device is to be taught in, the start and end addresses must be entered identically.

Example 2: Devices with non-consecutive serial numbers

10 devices with non-consecutive serial nos. (e.g. 500001-500005 & 500627-500631) should be taught in as lifts 1 to 10:

1. Press "MODE" and then "Key5" to enter programming mode.
2. Immediately enter the password "9999".
3. Enter the starting serial no. of the first lifts (here 500001) and confirm the entry with "POWER".
4. **Display A1-0:** Enter the start address "1" for lift no.1 and confirm the entry with "POWER".
5. **Display A2-0:** Enter the end address (address of the last lift) "5" and confirm with "POWER".

Notice: The first 5 lifts are now stored in the RCU.

6. Press "MODE" and then "Key5" to return to programming mode.
7. Immediately enter the password "9999".
8. Enter the starting serial no. of the next lifts (here 500627) and confirm the entry with "POWER".
9. **Display A1-0:** Enter the start address "6" for lift no. 6 and confirm the entry with "POWER".
10. **Display A2-0:** Enter the end address (address of the last lift) "10" and confirm with "POWER".

Notice: Now all 10 lifts are assigned as follows:

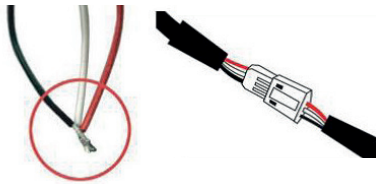
S/N 500001 - device address 1 ... S/N 500005 - device address 5
S/N 500627 - device address 6 ... S/N 500631 - device address 10

Teaching the lift

After the serial number(s) and device address(es) have been programmed, the lift(s) must be synchronized with the remote control.

To do this, proceed as follows:

1. Enter the desired device address (e.g. "1") into the RCU.
2. Make sure the lift is properly connected and powered. Then connect all 3 lines of the enclosed control cable with each other (black-red-white), then plug it into the corresponding lift.



No external voltage may be applied to the control line!

Caution: For measuring devices with auxiliary voltage, e.g. ohmmeter etc.! It is also not allowed to measure in the control line with a multiple measuring device!

3. Press the "UP" button.
4. The lift confirms the command with repeated audible clicks.
5. Disconnect the control cable from the lift.
6. The lift is now operational and synchronized with the RCU.

Notice: Each lift only responds to RCUs with the synchronized one Serial number. It is not possible to operate the lift with RCUs with different serial numbers.

7. Repeat steps 1 to 5 for all other device addresses/lifts.

Notice: It is recommended to enter all serial numbers and device addresses in the list on page 20. If the RCU is lost or damaged, this list allows it to be reprogrammed without access to the lifts.

Operate individual devices



Please note that the lift can only be operated with the specified minimum weight! Lowering is not possible without weight!

Lowering & lifting

To lower the desired lift, select the device address and then press the "DOWN" button. To raise the lift, press the "UP" button.

Notice: All lighting circuits are always switched on after an up/down actuation to check the function of the lighting.

Set lowering height

Lower the lift to the desired maintenance height and stop it with the "STOP" button.

Keep the "STOP" button pressed for approx. 5 seconds. The RCU confirms the acceptance of the new STOP point with a beep and the lift with repeated audible clicks.

From now on the lift will stop automatically at this set height.

Notice: The lifts are preset at the factory and stop after approx. 40 cm automatically. The lowering is continued by pressing the "DOWN" button again.

Switch light ON/OFF

To switch on the desired lamp, first select the device address of the lift and then press the "LIGHT ON" button. "LIGHT OFF" to switch off.

To switch all lights on or off, first press the "Mode" button and then the "LIGHT ON" or "LIGHT OFF" button.

Query serial number (S/N)

To query the serial number of a specific lift, enter the device address, then press "MODE" and then "Key 9".

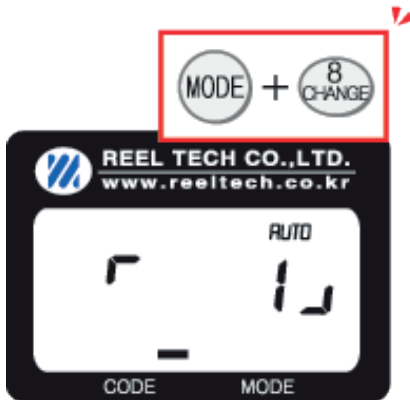
The lift serial number flashes on the display.

Conversion from device address to S/N selection

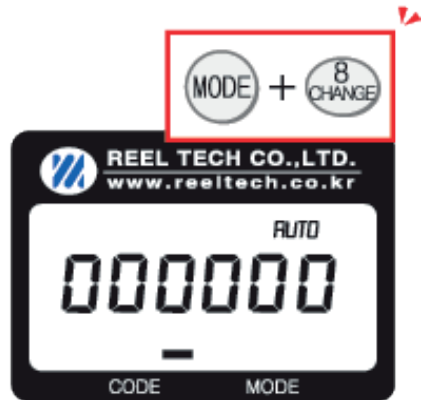
With the S/N selection you can control the lift via the 6-digit serial number.

To access serial number selection, press “MODE” and then “Key 8” for approx. 5 seconds.

To return to selection via the device addresses, repeat the process.



Device address selection



S/N selection

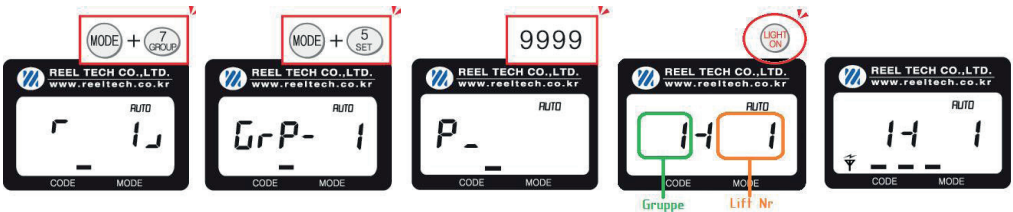
Divide devices into groups

1. Press "MODE" and then hold "Key 7" for approx. 2-3 seconds to enter group mode.
2. Press "MODE" and then key "5" to get to the programming mode.
3. Immediately enter the password "9999".
4. Press the "UP" button and enter the group number.
5. Press the "DOWN" button and enter the device address to be added to the group.

Notice: Pay close attention to which side is active for the input, $\lceil$ stands for an input on the right side (lift address), $\rfloor$ stands for an input on the left side (group). You can change the page at any time with "UP" for left and "DOWN" for right.

If you make an incorrect entry, press the "CLEAR" button repeatedly until you reach "0" and start your entry again.

6. Press "LIGHT ON" to add the address to the group (the lift confirms with a soft click after about 5 seconds)
7. Press the "STOP" button to exit programming mode.



Example: Devices 1,4,7 should be assigned to group 1 and devices 2,5,8 to group 2.

1. Press "MODE" and then hold "Key 7" for approx. 2-3 seconds to enter group mode.
2. Press "MODE" and then the "5" button to get to the programming mode.
3. Immediately enter the password "9999".
4. Press the "UP" button and enter the group number 1.
5. Press the "DOWN" button and enter the device address 1 and confirm the entry with "LIGHT ON". (Acknowledgment tone after approx. 5 seconds).
6. Enter the device address 4 and confirm the entry with "LIGHT ON" (acknowledgment tone after approx. 5 seconds).
7. Enter the device address 7 and confirm the entry with "LIGHT ON" (acknowledgment tone after approx. 5 seconds).
8. Press "UP" button and enter group number 2 and follow steps 5-7 for devices 2,5,8.
9. Press the "STOP" button to exit programming mode.

Delete devices from a group

To delete an address, proceed as for assignment.

However, in steps 5 to 7, press "LIGHT OFF" to delete the selected address from the group.

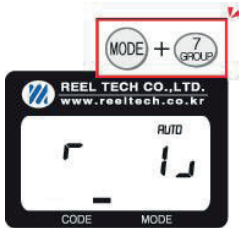
Example: Device 5 is to be removed from group 2.

1. Press "MODE" and then hold "Key 7" for about 2-3 seconds to enter group mode.
2. Now press "MODE" and then "Key 5" to enter programming mode.
3. Immediately enter the password "9999".
4. Press the "UP" button and enter group number 2.
5. Press the "DOWN" button and enter the device address 5 and confirm the entry with "LIGHT OFF". (Acknowledgment tone after approx. 5 seconds).
6. Press the "STOP" button to exit programming mode.

Operation of the devices with group mode

Notice: To enter group mode, press "MODE" and then hold down "Key 7" for approx. 2-3 seconds.

To return to normal mode, press "MODE" again and hold the "7" button for 2-3 seconds.



Normal mode



group mode

Lowering and lifting

To lower the desired group, first select the group in group mode and then press the "DOWN" button. Now all lifts assigned to the group go down. To raise the group, press the "UP" button.



Make absolutely sure that you have visual contact with all lifts during operation.

Set lowering height

Notice: This function is NOT available in group mode.

Switch light ON/OFF

To turn on the light of the desired group, select the group in group mode and press the "LIGHT ON" button, to turn it off "LIGHT OFF".

Hint: This also makes it easy to check group membership.

Light control for lifts of the PFI series

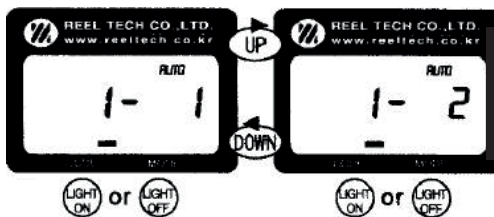
Lifts of the PFI series offer the possibility of 2 different lighting circuits (L1 & L2) to control. To do this, proceed as follows:

1. Turn on the RCU.
2. Enter the device address of the lift and keep the last digit pressed for 2-3 seconds (e.g. device address 1: press the "CLEAR" button until "0" appears on the display. Now keep the 1 pressed.)



Notice: The left number gives the device address on the right the selected circuit.

3. Use the "UP" and "DOWN" buttons to select the desired lighting circuit 1 or 2.
4. Turn on or off the desired circuit using the "LIGHT ON" and "LIGHT OFF" buttons. The settings are immediately sent to the lift and saved.



5. Exit the mode with the "STOP" button.

Notice: All lighting circuits are always switched on after an up/down actuation to check the function of the lighting.

Synchronized lifts

Operate synchronized lifts



Please note that the lifts can only be operated with the specified minimum weight! Lowering is not possible without weight!

Lowering and lifting

To lower the desired pair of lifts, select the device address and then press the "DOWN" button. To raise the lifts, press the "UP" button.

All commands are first synchronized between the two lifts before they are executed. The reaction or execution of the commands therefore takes significantly longer than with a single lift.

This must be observed during operation, because a new command also triggers a new synchronization!

If the system responds asynchronously when raising or lowering, stop the Process with the "STOP" button.

With the following command ("UP" or "DOWN"), the load plates are automatically synchronized. This process can take up to 30 seconds due to the large amount of data.

During this time, no further commands may be given to the lifts.

The devices automatically ensure a balance.

Set lowering height

Lower the pair of lifts to the desired maintenance height and stop them with the "STOP" button.

Keep the "STOP" button pressed for approx. 5 seconds. The RCU confirms the acceptance of the new STOP point with a beep and the lifts with repeated audible clicks.

From now on, the pair of lifts will automatically stop at this set height.

Notice: The lifts are preset at the factory and stop automatically after approx. 40 cm. The lowering is continued by pressing the "DOWN" button again.

Switch light ON/OFF

To switch on the desired light, first select the device address of the lift pair and then press the "LIGHT ON" button. To switch off "LIGHT OFF".

Query serial number (S/N)

To query the serial number of a specific pair of lifts, enter the device address and then press "MODE" and then "Key 9". The serial number of the pair of lifts flashes on the display.

Programming synchronized lifts

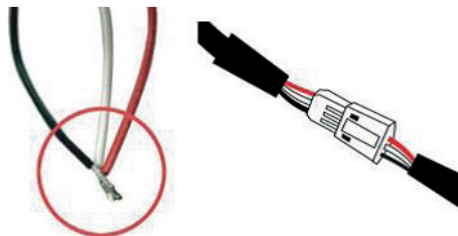
Notice: Synchronized lifts always have the same serial number.

Example: Two lifts that are synchronized with each other (e.g. S/N 500123) should be given the device address 15.

1. Press "MODE" and then the "Key5" to get to the programming mode.
2. Immediately enter the password "9999".
3. Enter the serial no. (here 500123) of the synchronized lifts and confirm the input with "POWER".
4. **Display A1-0:** Enter the desired start address 15 for the first lifts and confirm the entry with „POWER“.
5. **Display A2-15:** Enter the end address (also 15) and confirm with "POWER".

After you have entered the serial number and device address, the lifts must be synchronized with the remote control. To do this, proceed as follows:

1. Enter the desired device address (here 15) into the RCU.
2. Connect all 3 lines of the enclosed control cable with each other (black-red-white), then plug it into the corresponding lifts





No external voltage may be applied to the control line!

Caution: For measuring devices with auxiliary voltage, e.g. ohmmeter etc.! It is also not allowed to measure in the control line with a multiple measuring device!

3. Now press the "UP" button (the lifts confirm by clicking several times)
4. Disconnect the control cables from the lifts again
5. The lifts are now operational and synchronized with the RCU

Notice: Each lift only responds to RCUs with the synchronized one Serial number. It is not possible to operate the lift with RCUs with different serial numbers.

It is recommended to record all serial numbers and device addresses in the attached list on p.20. If the RCU is lost or damaged, this list allows it to be reprogrammed without access to the lifts.

EU-Declaration of Conformity

We, Manufacturer/Importer
(full address)

ReelTech Vertriebs GmbH
Berliner Straße 8, 61137 Schöneck
Germany

Declare under our own responsibility that the product
(description of the apparatus, system, installation to which it refers)

Remote Control Unit (RCU)
Frequency Range (MHZ): 433.92

To which this declaration refers conforms with the relevant standards or other standardizing documents

Safety/EMF: Art.3.1.a)	EN IEC 62368-1:2020+A11:2020 EN 62311 :2019
EMC: Art.3.1.b)	ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-3 V2.1.1 (2019-03)
RF: Art.3.2)	ETSI EN 300 328 V2.2.2(2019-07)

According to the regulations in

Directive 2014/53/EU

Manufacturer / Importer



Signature: 

Date: 10.05.2023 Name: Michael Vinson

List of serial numbers and device addresses

Serial number of the RCU: _____

	Lift type	Lift S/N	Lift adress	Group
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

Date: _____

Signature: _____

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