

Installation and Operating Instructions RolloTron® Pro Standard DuoFern®

Article No. 9400/9405

VBD 462-4-D (09.08)

Dear Customer,

... in purchasing this **Rollotron® Pro standard DuoFern®** you have decided on a quality product manufactured by Rademacher. We would like to thank you for your confidence.

This roller shutter drive has been developed with such aspects as optimum operability and convenience in mind, as well as those of solidity and durability. With uncompromising quality requirements and after an extensive test series phase, we are now proud to present you with this innovative product.

All the highly qualified staff at RADEMACHER stand behind it.

CE mark and conformity

The roller shutter drive **Rollotron® Pro standard DuoFern®** (Art. No. 9400/9405) fulfils the requirements of the relevant European and national guidelines.

The conformity of the Rollotron® Pro standard DuoFern® has been certified and the corresponding declarations and documentation are on file at the manufacturer's premises.

These instructions...

... describe the installation, the electrical connection and the operation of your Rollotron® Pro standard DuoFern®.

Please read this manual completely and observe all of the safety instructions before commencing with the installation.

Please keep these instructions in a safe place and include them with the device in the event that it changes owners.

The warranty becomes null and void in the event of any damage or loss caused by failure to observe these operating and safety instructions. We accept no liability for any consequential losses or damage resulting from non-observance of these instructions.

Please turn over

General view(art. no. 9400/9405)

Fastening holes

Deflection roller

Belt inlet

UP button

Sunlight button with LED

DOWN button

Fastening holes

Blind stopper

Reset button

End position button

Dusk button with LED

Automatic timer button with LED (red/green)

Winding wheel

Fixing hook

Strain relief

Cable conduit

Winding wheel cover

Connection terminals

Key to symbols

Danger of electric shock

This symbol advises you of the dangers associated with work performed on electrical connections, parts etc. It requires that safety precautions be taken to protect the health and life of the person concerned.

This concerns your safety.

Please pay particular attention to and carefully follow all instructions with this symbol.

ADVICE

This heading indicates information that is important to the proper functioning of the drive.

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General safety advice

All work performed on electrical equipment is associated with a risk of electric shock and electrocution.

- u The electric connections and all work on electrical equipment must only be carried out by a qualified electrician in accordance with the connection details provided in these instructions, see page 16.
- u All units must be disconnected from the mains before installing and connecting the device to the mains.

The use of defective devices can put people and property at risk (electric shock, short circuits).

- u Never use faulty or damaged devices.
Please notify our customer service department of any faults/damage (see page 43).
- u Do not allow children to play with the roller shutter controls or with the device.
- u During setting procedures, observe the roller shutter and keep other people at a distance to prevent them from being injured if the roller shutter moves suddenly.

According to the standard DIN EN 13695 it must be ensured that the transmitted forces specified for the hangings according to EN 12045 are complied with.

Particular care must be taken here to ensure that the outward running speed of the hanging is less than 0.2 m/s over the last 0.4 m of travel.

Proper use / operating conditions / improper use

Only use the Rollotron® Pro standard DuoFern® ...

...to raise and lower roller shutters with an acceptable belt.

Only use original manufacturer's parts

To avoid malfunctions or damage to the Rollotron® Pro standard DuoFern only use original spare parts from Rademacher. As the manufacturer, we do not guarantee the equipment if parts made by other manufacturers are used and consequential damage occurs.

All repairs to the Rollotron® Pro standard DuoFern® must be carried out by authorised customer service personnel.

Operating conditions

- u Use the Rollotron® Pro standard DuoFern® only in dry rooms.
- u The electrical connection requires a permanent 230 V/50 Hz power supply at the site of installation as well as an on-site isolating device (fuse).
- u The roller shutter must be easy to raise and lower without catching.
- u The bearing surface for the roller shutter drive must be level.
- u The Rollotron® Pro standard DuoFern® may only be operated with and installed in systems and devices in which transmitter or receiver faults do not present any danger to persons or property or for which these hazards are covered by the use of other safety equipment.

Improper use

Never use controls with DuoFern® radio technology (e.g. Rollotron® Pro standard DuoFern® and DuoFern® hand transmitters) for remote operation of devices and equipment with increased safety requirements or increased risk of accident. Additional safety equipment is required to do so. Please observe the relevant legal regulations for setting up such systems.

Admissible roller shutter belt widths/roller shutter areas

Maximum belt width in the case of: **9400** **9405**

Standard belt 23 mm

1.0 mm belt thickness	7.6 m	15 m
1.3 mm belt thickness	6.2 m	13 m
1.5 mm belt thickness	5.2 m	11 m

Admissible roller shutter area (m²) *

Roller shutter weight

4.5 kg/ m ² (plastic roller shutters),	approx. 6 m ²	approx. 10 m ²
10 kg/m ² (aluminium/wooden roller shutters)	approx. 3m ²	approx. 6 m ²

*All values refer to roller shutters that move smoothly and easily.

IMPORTANT

Use only belts with the allowable length. Using longer belts can damage the Rollotron® Pro standard DuoFern®.

Functional description

SLAVE

Roller shutter in the bedroom

Light in the bedroom

Roller shutter in the office

Roller shutter in child's bedroom

Outside lighting

Light in the cellar

MASTER

DuoFern®-radio system

With the DuoFern®-radio system a bidirectional data exchange is possible between the various participants of a radio network.

- u All switching commands from a DuoFern transmitter will be confirmed by the DuoFern® receivers.
- u All signals are relayed between the various participants of the DuoFern® -radio network (routing).
Each DuoFern® end device has its own routing function for relaying the radio signal.
- u You can register up to 15 end devices with a Rollotron® Pro standard DuoFern® radio network.

Group control

With a DuoFern® hand transmitter (article no. 9491) you can control up to 48 DuoFern® end devices in 6 groups.

The following DuoFern® devices are available

- u Rollotron® Pro comfort DuoFern® (master/slave)
- u Rollotron® Pro standard DuoFern® (slave)
- u DuoFern® hand transmitter
- u DuoFern® actuators for lamps or tubular motors (slave)

Functional description

Master-/slave principle

The Rollotron® Pro standard DuoFern® (art. no. 9400/9405) is a slave device which receives switching commands via DuoFern® radio network such as:

- u Status changes
 - u Automatic switching time
 - u Automatic random mode
 - u Sunlight and dusk mode switching commands
- from another participant (**master**) in the radio network.

Master and slave devices in the DuoFern® radio network

Master devices:

- u Rollotron® Pro comfort DuoFern® (as master)

Slave devices:

- u Rollotron® Pro comfort DuoFern® (as slave)
- u Rollotron® Pro standard DuoFern®

- u DuoFern® actuators for lamps or tubular motors

ADVICE

Manual switching commands can also be given locally at the slave device at any time.

As an aid to setting up a DuoFern® radio network we would like to present two examples of use:

Example of use no. 1:

- 1 Rollotron® Pro comfort DuoFern® as master
(e.g. on west-facing side)
- 2 Rollotron® Pro standard DuoFern® on the
west-facing side of the building
- 1 Actuator for a lamp
- 1 DuoFern® hand transmitter
Channels 1 to 4 for individual operation of the roller shutters
Channel 5 to operate all roller shutters together
Channel 6 for the ON/OFF lamp

Example of use no. 2:

- 1 Rollotron® Pro comfort DuoFern® as master
(e.g. south-facing aspect with a sun sensor)
- 3 Actuators for tubular motors on south-facing side
- 1 DuoFern® hand transmitter

Overview of functions for Rollotron[®] Pro standard DuoFern[®] (9400/9485)

Functions for 9400/9405

Manual operation

AUTO/MANU switching

Automatic operation

Automatic sunlight mode

Sun position

Automatic dusk mode

Ventilation position

End position setting

Permanent saving of settings

Before installation

1. Take measurements

- u Check whether the belt box provides sufficient space for the Rollotron® Pro standard DuoFern®.

All dimensions given in mm

Dimensional drawing for Rollotron® Pro standard DuoFern® (article no. 9400)

Dimensional drawing for Rollotron® Pro standard DuoFern® (article no. 9405)

Before installation

1. You need the following tools

- u Screwdriver
- u Phillips screwdriver
- u Scissors
- u Folding rule or tape measure
- u Pencil

2. Remove the old belt winder

- u Let the roller shutter down completely until the slats are fully closed.
- u Remove the old belt winder and unwind the belt.

There is a risk of injury due to the pre-tensioned spring in the old belt winder.

When the old belt winder is opened, the spring can snap back uncontrolled. Release the spring carefully by hand in the belt winder to avoid this.

Before installation

3. Prepare the belt

Cut off the belt about 20 cm underneath the belt box.

Fold the end of the belt about 2 cm from the end and cut a small slit in the middle. This way you can hook the belt onto the winding wheel later on.

Recommendation

If the roller shutter moves with difficulty, mount a deflection roller (art. no. 3590/5395, see page 42) to the roller shutter box to deflect the belt.

The belt must run as straight as possible to avoid unnecessary friction and wear.

Safety instructions for electrical connections

All work performed on electrical equipment is associated with a risk of electric shock and electrocution.

- u The electric connections and all work on electrical equipment must only be carried out by a qualified electrician in accordance with the connection diagrams provided in these instructions.
- u All installation and connection works must be carried out at zero voltage.
- u Disconnect all the leads of the power supply cable from the mains and ensure that they cannot be reconnected.
- u Check to ensure that the system is at zero voltage. The device has only been disconnected electrically from the mains when one of the following conditions is met:
 - The mains cable has been disconnected from the mains.
 - Switch off the automatic circuit breaker in the house installation.
 - The screw-in fuse for the house installation has been completely removed.
- u Please compare the voltage/frequency specifications on the type plate with those of your local power supply network before connection.

The use of defective devices can put people and property at risk (electric shock, short circuits). For this reason, never use faulty or damaged devices.

Please notify our customer service department of any faults/damage (see page 43).

Electrical connection

ADVICE

The electrical connection of the Rollotron® Pro standard DuoFern® can be via a cable with a mains plug or via a fixed cable connection.

1. Connect the enclosed cable (with a mains plug).

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2. If you use the enclosed cable with the mains plug, you must then feed it through the Rollotron® Pro standard DuoFern® cable conduit at the side.

3. Finally, screw the enclosed strain relief in place with the enclosed screws.

Cable conduit

Feeding in and fastening the belt

1. Switch the mains power on.
2. If the fixing hook is difficult to reach, push the UP-button until the hook is visible in the mounting opening and can be reached easily. (You may have to carry out a software reset beforehand, see page 32).
There is a danger of being injured by the winding wheel.
Never reach into the mounting opening when the motor is running.
3. It is essential to switch the mains power off again.
4. Only after doing so, feed the belt from the front into the Rollotron® Pro standard DuoFern®. After this fix the belt to the winding wheel hook.
5. Switch on the mains supply again.
6. (s) Press the UP button until the belt has wrapped itself once around the winding wheel.
IMPORTANT
When winding the belt manually, pull the belt tight so that the deflection roller turns as well.
7. After this, place the enclosed belt cover onto the mounting opening.

Fixing hook for the belt

Belt cover

IMPORTANT

Always place the belt over the winding wheel from above.

Install the Rollotron® Pro standard DuoFern®

ADVICE

Install the Rollotron® Pro standard DuoFern® so that it is straight and the belt winds up correctly. Ensure that the Rollotron® Pro standard DuoFern® is mounted freely in the belt box and is not in contact with the wall, otherwise this will result in noise.

- 1. Push the Rollotron® Pro standard DuoFern® into the belt box and screw it tight with the enclosed screws.**

If using a cable with a mains plug:

Ensure that the mains plug lead lies correctly in the cable conduit. Otherwise it may be damaged when it is screwed on.

- 2. Press the enclosed blind plug into the lower screw opening.**
- 3. Proceed with the basic settings, see the following pages.**

Registering and de-registering in the DuoFern® radio network

To allow your roller shutter drive to react to switching commands from the DuoFern® radio network it must first be registered with the corresponding DuoFern® end devices (e.g. Rollotron® Pro comfort DuoFern® or the DuoFern® hand transmitter).

Please also read the operating instructions for the respective DuoFern® device.

IMPORTANT

A Rollotron® Pro standard DuoFern® cannot be connected to another Rollotron® Pro standard DuoFern® since both are slave devices

You can register up to 15 DuoFern® end devices with a Rollotron® Pro standard DuoFern®.

Registering in the DuoFern® radio network

- () For 4 s Registering in the DuoFern® radio network**
The automatic timer LED flashes green.

60 s The register mode remains active for 60 seconds.
- 2. Activate the register mode for the desired DuoFern® end device**
(e.g. Rollotron® Pro comfort DuoFern® or DuoFern® hand transmitter)
- 3. Observe the automatic timer LED**

flashing green
The register mode is active

green (5 s)
The registering procedure was successful

red
The registering procedure failed
- () Give a short press Abort registering procedure**

De-registering in the DuoFern® radio network

- 1. For 4 s De-registering in the DuoFern® radio network**
The automatic timer LED flashes red.
60 s The de-register mode remains active for 60 seconds.
- 2. Activate the de-register mode for the desired DuoFern® end device**
(e.g. Rollotron® Pro comfort DuoFern® or DuoFern® hand transmitter)
- 3. Observe the automatic timer LED**
flashing red
The de-register mode is active
green (5 s)
The de-registering procedure was successful.
red
The de-registering procedure failed
- 4. () Give a short press Abort de-registering procedure**

Purging in the DuoFern® radio network

1. () For 4s Purge

- u This function de-registers all DuoFern® end devices that are registered but that no longer react.

This could be necessary, for example, in the case of a faulty device which can no longer be de-registered as described in point 1 to 3.

Observe the automatic timer LED

flashing red

The procedure is still active

green (5 s)

The procedure is ended

ADVICE

Battery powered DuoFern devices (e.g. the DuoFern® hand transmitter 9491) should not be/cannot be de-registered in this way. Carry out a software reset (see page 32) in order to de-register battery powered DuoFern® devices.

Important advice on all automatic functions

All changes to an automatic function (automatic timer/automatic sunlight mode or automatic dusk mode) at the master device are transmitted by radio signal to all registered DuoFern[®] end devices (slaves) and displayed there.

IMPORTANT

If one of the automatic functions was switched off at the master device this can be activated again locally at the slave device.

Example:

- u The automatic sunlight mode is deactivated at the master.
- u The automatic sunlight mode can be activated again locally at the slave device.

Automatic timer

In automatic operation the timer switching commands for opening and closing times are carried out from the DuoFern® radio network.

TIP

Local manual operation is still possible at any time in automatic operation mode.

IMPORTANT

The automatic timer has no influence on the automatic sunlight mode or the automatic dusk mode. These required to be activated and deactivated separately in each case.

Switching the automatic timer on/off

1. () Press for 1 s **Switching between automatic timer and manual operation.**
2. **Observe the automatic timer LED**
 - OFF = Automatic timer OFF**
 - u Timer switching commands via DuoFern®radio network will no longer be performed.
 - ON = Automatic timer ON**
 - u Timer switching commands via DuoFern® radio network will be performed.

Automatic random operation

IMPORTANT

Only possible if the automatic timer was activated previously.

If the Rollotron® Pro standard DuoFern® receives a switching command from another DuoFern® end device which has the automatic random operation activated (e.g. from a Rollotron® Pro comfort DuoFern®), then the Rollotron® Pro standard DuoFern® can also perform a random function.

The random delay is 0 to 30 minutes.

Automatic sunlight protection mode

The automatic sunlight mode is a light-dependent control which allows the automatic raising and lowering of the roller shutter once a set limiting value has been crossed.

The control commands for the slave devices come from a master device (with a light sensor fitted).

Operating conditions

Master device:

- u Insert the light sensor in the master.
- u Activate the automatic sunlight timer
- u The limiting value must be set.

Slave device:

- u Set the sun position, see page 28.
- u Activate the automatic sunlight timer, see page 28.

Master and slave device:

- u The master device must be registered with the slave device.
- u All device (roller shutters) should be fitted to the same side of the building (e.g. south-facing).

Set the sun position

1. **Move the roller shutter to the required sun position.**
2. **Confirm the sun position.**
The sun LED flashes in acknowledgement.

Activate the automatic sunlight mode

1. **Press for 1 s Switch automatic sunlight mode on/off as required.**

2. **Observe the sunlight LED**

OFF = Automatic sunlight mode OFF

ON = Automatic sunlight mode ON

Flashing = The automatic sunlight mode is active. The roller shutter has been lowered to the sun position.

Automatic dusk mode

The automatic dusk mode closes the roller shutters automatically when dusk falls. The control commands for the slave devices come from a master device (with light sensor fitted) or with the astro function activated.

Operating conditions

Master device:

- u Insert the light sensor at the master device or activate astro function
- u Switch on automatic dusk operation.
- u The automatic dusk limiting value must be set (only necessary when operated with light sensor).

Slave device:

- u Activate automatic dusk mode, see page 30.

Master and slave device:

- u The slave device must be registered with the master device (see page 21).

Activating/deactivating the automatic dusk mode

1. () Press for 1 s Activating/deactivating the automatic dusk mode as required

2. **Observe the dusk LED**

OFF = Automatic dusk mode OFF

ON = Automatic dusk mode ON

Set ventilation position

In the case of automatic lowering, the roller shutter always stops at the set ventilation position.
The roller shutter can be closed completely by hand however.

1. Move the roller shutter into the desired ventilation position

2. () Press simultaneously Save ventilation position

The automatic timer LED flashes green

TIP

Carefully press the end position button (see page 3) with a thin (but not too sharp) object.

3. Delete the ventilation position

() Close the roller shutter completely

() Press simultaneously

Deleting settings/software reset

1. **Press at the same time for 4 s** **Software reset**
2. **All LEDs flash red in acknowledgement.**
3. **()** **Let go of button** All settings (automatic functions, automatic sunlight position and ventilation position and registered DuoFern[®] end devices) are deleted and must be repeated.

Deleting settings/hardware reset

1. **For 2 s** Press reset button (see page 3) carefully with a thin (but not too sharp) object.

Hardware reset

After a hardware reset all settings are retained.

IMPORTANT

Never press the reset button when the motor is running, as this alters the end positions.

Operating the Rollotron[®] Pro standard DuoFern[®]/ manual operation

ADVICE

Manual operation is possible in all operating modes and takes precedence over the automatic functions.

- 1. Open the roller shutter**
The roller shutter moves to the upper final limit stop.
- 2. Stop the roller shutter**
(s) or (t) or (AUTO/MANU)
- 3. Close the roller shutter**
The roller shutter is lowered to the lower end position.

UP button

Automatic timer button

DOWN button

Remove the Rollotron® Pro standard DuoFern®

1. **Close the roller shutter completely**
2. **Delete end positions**
3. **Press and keep pressed (if necessary several times).**
4. **From the front, pull the belt as far as possible by hand out of the Rollotron® Pro standard DuoFern over the deflection roller.**
5. **Loosen the fixing screws and take the Rollotron® Pro standard DuoFern® out of the belt box**
6. **Remove the belt cover**
7. **Check the position of the fixing hook and if necessary move the hook into the correct position in order to remove the belt.**

There is a danger of being injured by the winding wheel.
Never reach into the mounting opening when the motor is running. Always disconnect the plug from the mains before reaching into the mounting opening.
8. **Switch off the electric current and unplug the mains connection**

The risk of electric shock here represents a life-threatening danger.
Check that the cable is dead before disconnecting the Rollotron® Pro.
9. **Pull the belt from the fixing hook and pull it completely out of the Rollotron® Pro at the front.**

Removing the belt after a total breakdown

If the Rollotron® Pro standard DuoFern® breaks down completely and the motor no longer works, you can pull the belt completely out of the roller shutter drive with the help of the attached transmission release clip without having to cut the belt.

ADVICE

After a total breakdown have the Rademacher Service Department check the device over.

1. **Remove the Rollotron® Pro, see page 34.**
2. **Disconnect the power supply and unplug the mains connection.**
3. **Insert the release clip into the transmission with a light pressure and hold it tight.**
4. **Pull the belt out of the Rollotron® Pro at the front and detach it from the fixing hook.**
5. **Re-insert the release clip.**

Gear release

Storage compartment for the release clip

**Rollotron® Pro standard DuoFern®
(article no. 9400 / 9405)**

Useful advice

Care

You may clean the Rollotron® Pro standard DuoFern® with a damp cloth. Please do not use any aggressive or abrasive detergents.

Maintenance

Check your Rollotron® Pro standard DuoFern® and all its components for damage at regular intervals:

- u The deflection roller in the roller shutter box must run smoothly and without resistance.
- u The belt must not be allowed to fray.

Have any damaged parts replaced by your dealer.

What to do if...??

... the roller shutter does not stop at the set end positions?

Possible cause: The belt has stretched and the end positions have changed as a result.

Solution: You need to set the end positions again (see page 19).

... after mounting, the roller shutter does not move all the way up.

Possible cause: The setting of the upper end position is incorrect.

Solution: Repeat the setting for the upper end position (see page 19).

What to do if...??

... the roller shutter gets stuck while lowering it?

Possible causes: There is a fault in the roller shutter box:

- u The slats have moved out of place.
- u The shutter rubs against the window frame in the shutter box due to missing pressure rollers.
- u Insulation material has come loose and is obstructing the roller shutter.
- u The roller shutter is too light.

Solution: If possible, move the roller shutter in the opposite direction.

- u Open the roller shutter box and remedy the problem.
- u If necessary grease areas moving with difficulty with a friction-reducing wax.
- u If the shutter is too light, make it heavier. For example, slide a suitable flat iron bar into the lowest slat.

Solution: Carry out a hardware reset according to page 32 and test the Rollotron® Pro standard DuoFern® with the factory settings.

If the Rollotron® Pro standard DuoFern® still does not react after a hardware reset, please carry out a software reset (see page 32).

...the Rollotron® Pro standard DuoFern® no longer reacts properly manually or automatically?

What to do if...??

... the roller shutters do not go up?

Possible causes: The electronics have deactivated the drive after closing the roller shutter since the deflection roller did not move. This is the case when:

- u during the setting of the end position the DOWN (t) button is pressed for too long. The slats of the shutters are closed but the belt winds itself further so that it isn't pulled taut over the deflection roller.

- u The belt has stretched so that the actual lower end position has been changed. In this case the belt does not lie taut on the deflection roller.

Solution: The belt should never be slack.

- u Set the lower end point again.

Take care that the belt is taut across the deflection roller and that the deflection roller turns evenly as the shutter closes as long as you keep the DOWN (t) button pressed.

Technical data

Article number:	9400 / 9405
Supply voltage:	230 V / 50 Hz
Nominal output:	approx. 70 W
Standby rating:	≤ 1,4 W
Nominal torque:	approx. 10 Nm (in the case of art. no. 9405 approx. 14 Nm)
Short term operation:	5 minutes
Overrun:	< 0.4 revolutions
Protection category:	II (only for dry rooms)
Power reserve:	permanent
Random generator:	(+) 0 - 30 min.
Permissible ambient temperature:	0°C to 40°C
Housing material:	recyclable plastic
Transmission frequency:	434.5 MHz
Transmitting power:	10 mW
Range:	
- Free field:	approx. 100 m
- Indoors:	approx. 20 m, depending upon the building fabric

TIP

The range can be optimised due to the routing function through additional DuoFern® end devices (e.g. by using a 2-channel actuator, art. no. 9470).

Technical data

Adjustment ranges

Sunlight sensitivity: 2000 - 20 000 lux

Dusk sensitivity: 2 - 50 lux

Mains power failure

All data is retained even after a power cut.

Technical data/Traction force diagram

Traction weight (kg)

Belt length (m)

Belt thickness 1.0 mm / 1.3 mm / 1.5 mm

*** = Belt lengths for article no. 9800**

**** = Belt lengths for article no. 9805**

Accessories

Deflection roller
(article no. 3590/3595)

Universal double plug
(article no. 3742 = white)
(article no. 3745 = brown)

**Mains cable with
flat two-pinned plug**
(article no. 3880)

Supply package = 1.5 m

optionally available in the following lengths

2 m

3 m

5 m

Mini cable conduit 2 m
(article no. 3730)
not pictured

Terms of warranty

Rademacher Geräte-Elektronik GmbH & Co. KG warrants all new devices that are installed in accordance with the installation instructions for 36 months. The guarantee covers all design faults, material defects and production faults.

The warranty does not cover:

- u Incorrect mounting or installation
- u Non-observance of the installation and operating instructions
- u Improper operation and use
- u External influences such as knocks, blows or weather
- u Repairs and modifications performed by unauthorised third parties
- u Use of unsuitable accessories or spare parts
- u Damage caused by inadmissible over-voltage (e.g. caused by lightning)
- u Dysfunction caused by superimposed radio frequencies and other radio interferences

Rademacher will rectify all faults occurring during the warranty period free of charge by either repairing or replacing the part(s) concerned or by supplying an equivalent or new device. The supply of spare parts or performance of repairs under the warranty does not extend the original warranty period.

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