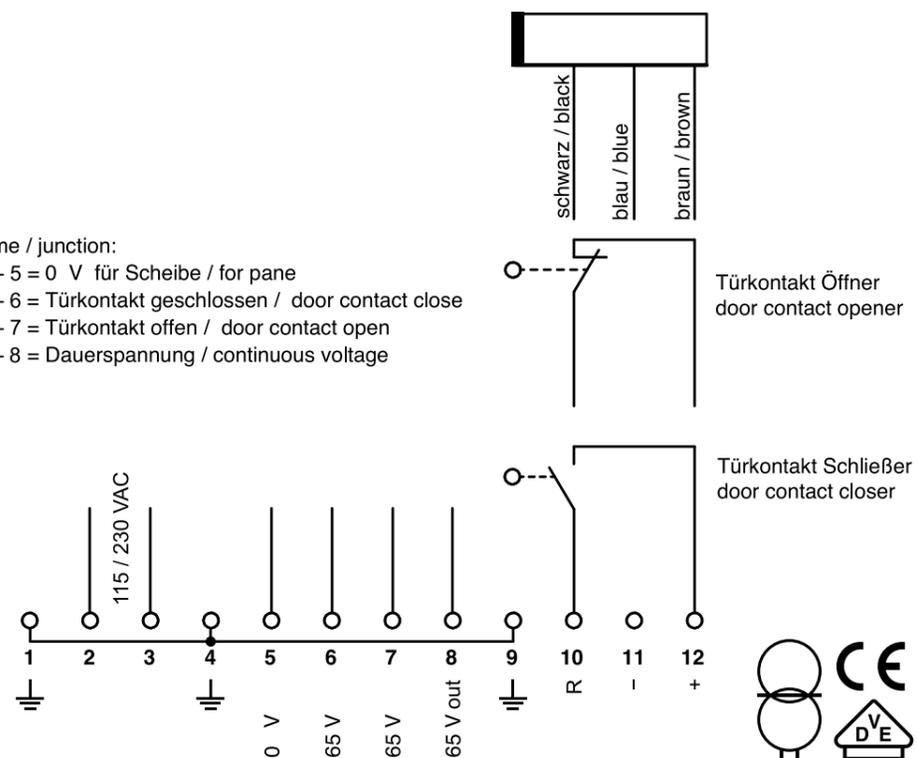


CIRCUIT DIAGRAM

Klemme / junction:

- — 5 = 0 V für Scheibe / for pane
- — 6 = Türkontakt geschlossen / door contact close
- — 7 = Türkontakt offen / door contact open
- — 8 = Dauerspannung / continuous voltage



Control Unit for  
Switchable Glass

MADE IN  
GERMANY



INSTRUCTION MANUAL

MINI-BLINDS EFFECT

SECTION-ACTIVATION

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The **extendit BOX** is intended for all kinds of dynamic glass installations, including:

- Fixed glass, even bend glass
- Partitions
- Frameless glass installations such as folding doors, sliding doors and regular glass doors
- Facades

<b>WARNING</b>	Life threatening electrocution hazard	Avoid contact with mains voltages!
	Danger due to misuse and self-made modifications	Do not modify the product, the accessories or any parts of them! Do not open the device.
	Notes concerning the power supply separation	Please follow the enclosed VDE-Note! Install the unit in a way that it is easily reachable.
<b>CAUTION</b>	Risk of injury due tripping and falling	Place, transport and install the device, accessories and parts of it carefully.
	Risk of injury due to unsuitable environmental conditions	Not recommended for children and people with physical and / or mental limited abilities. Use in dry areas only!
<b>NOTE</b>	Material damage due to incompatible combinations of products	Compare the technical specifications for all products being used. These must match or be in the specified range.
	Material damage due to improper procedures/installation	Use product, product parts and accessories only in perfect condition.

The **extendit BOX** is used exclusively for the operation of switchable glass. The unit releases a 65 Volt AC +- 5 Volt voltage to arrange the liquid crystals inside the LC Film into a transparent state. To achieve the best possible transparency, the LC Film is laminated between two Opti-White panes.

The max film size is 1820 x 3500 mm. The **extendit BOX** can be used for film sizes of up to 18 m². For larger glass areas consisting of several sections of glass, use multiple **extendit BOX**. The LC Film in the glass is opaque without voltage, it offers privacy but remains translucent. When turned on and voltage is applied to the LC Film, the crystals inside the film arrange themselves into one direction and the glass becomes transparent and sheer.

Use the **extendit BOX** in dry rooms only.

Do not misuse. Other uses are not permitted!

**No warranty or liability if misuse occurs.**

## CONNECTION & OPERATION

1. Compare the technical specifications for all products being used. Make sure these match and are in the specified range.
2. Please note the safety directions!
3. Turn off the fuse and check with a voltage dectector whether the wired lines used are without voltage.
4. When installing make sure to leave at least 50 mm of free space around the **extendit BOX**.
5. The **extendit BOX** can be installed in all dry rooms, but best in an easily reachable place if maintenance work needs to be done. The wiring length is not a concern since the system works with a 50Hz AC voltage.
6. The **extendit BOX** can be powered with 230 Volt 50 Hz as well as 110-115 Volt 60 Hz. The Voltage can be adjusted using the voltage selection swirch at the lower left. At delivery, the voltage is preset to 230 Volt. For this, terminal bridges are inserted into the input terminals according to wiring diagram. In- and Out-Voltage are electrically isolated to improve handling and contact safety.
7. The Outputvoltage of the **extendit BOX** can be adjusted using the build-in relais with 12 ampere switching capacity. This feature is especially for doors (usually for Rest- and Bathroomstalls). Toggling the glass is achieved through the door handle latch or dead bolt. The **extendit BOX** gives off a 12 Volt DC current since regular dead bolts/latches and sensors only have a permission for low voltages. The switching capacity has to be 33 mA.
8. Wire according to the diagram printed on top of the unit.
9. Use 4 bolts to securely screw the product onto a solid, safe underground if possible.
10. Turn the fuse back on. The **extendit BOX** works accordingly if voltage is measured on the primary side. It doesn't have its own switch and is maintenance free.
11. The output voltages 65 Volt AC and 12 Volt DC are protected against overload and over heating of the **extendit BOX** with PPTC fuses.

## WARRANTY & LIABILITY

Setup and installation of the **extendit BOX** as well as wiring of the glass, have to be done according to the regional laws and standards by a professional electrician.

- The manufacturer gives a 2 year warranty on the product.
- Since the manufacturer has no power over the installation of the product, the warranty only covers the product itself.
- The manufacturer is not liable for personal injury or property damage resulting from an improper installation, operation or maintenance.
- Do not modify or change the product in any way.

## DISPOSAL INSTRUCTIONS

- Any other usage than stated by the manufacturer is not allowed and leads to loss of warranty, liability and disclaimer.
- The manufacturer reserves the right to make technical modifications on the product, typographical errors and mistakes in manuals, on the product and packaging.

According to the european law WEEE (Waste of Electrical and Electronic Equipment), electrical and electronic products are not allowed to be disposed of in regular household trash. Their parts have to be recycled seperately because poisonous and dangerous parts can endanger the environment sustainably when they are disposed of improperly.

The customer/user of the product is committed, according to law (ElektroG), to send all electrical and electronic products to the manufacturer, the seller or public disposal site when the product is no longer being used/needed or broken. Follow disposal details according to your local law. The symbol on the product, packaging and manual point out the law. By abiding the laws and recycling the product accordingly, you contribute to the protection of the environment.

**WEEE guideline: 2012/19/EU**

**WEEE No.: 82898622**

## TECHNICAL DATA

### EU Declaration of Conformity

**The extendit digital solutions GmbH confirms with the CE label, the compliance with legal directives issued for the manufacture and marketing of electronic and electrical devices according to the EU Declaration of Conformity.**

Operating voltage: In 230V / Out 65V  
In 115V / Out 65 V

Input: max. 100 VA

IP: 00

Norms and certification: German production, CE-certified, VDE standard

