

# ABB-Welcome

83320/2-500  
83320/2-515  
Video indoor distributor



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## 1 Safety



### Warning

#### Electric voltage!

Risk of death and fire due to electrical voltage of 230 V.

- Work on the 230V supply system may only be performed by authorised electricians!
- Disconnect the mains power supply prior to installation and/or disassembly!

## 2 Intended use

The 83320/2-500 video distributor is an integral part of the ABB-Welcome door communication system and operates exclusively with components from this system. Device 83320/2-500 must only be installed on mounting rails according to DIN EN 50022.

## 3 Environment



### Consider the protection of the environment!

Used electric and electronic devices must not be disposed of with domestic waste.

- The device contains valuable raw materials which can be recycled. Therefore, dispose of the device at the appropriate collecting depot.

### 3.1 ABB devices

All packaging materials and devices from ABB bear the markings and test seals for proper disposal. Always dispose of the packaging material and electric devices and their components via the authorized collecting depots and disposal companies.

ABB products meet the legal requirements, in particular the laws governing electronic and electrical devices and the REACH ordinance.

(EU-Directive 2002/96/EG WEEE and 2002/95/EG RoHS)

(EU-REACH ordinance and law for the implementation of the ordinance (EG) No.1907/2006)

## 4 User Manual

Detailed information for planning ABB-Welcome systems is contained in the user manual. Download at [www.Busch-Jaeger.com](http://www.Busch-Jaeger.com).

## 5 Operation

### 5.1 Standard operation

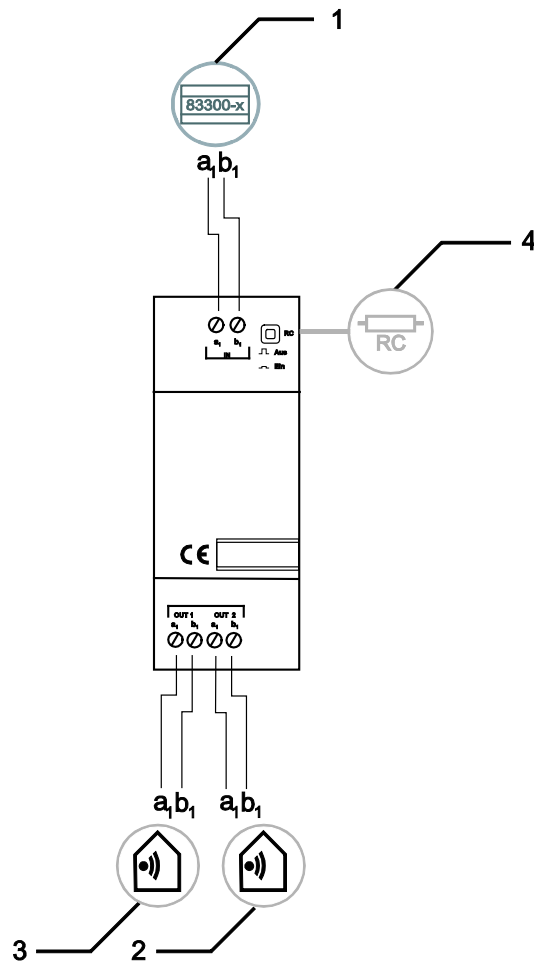


Fig. 1:

No.	Function
1	<ul style="list-style-type: none"> <li>• Connection for the system controller</li> <li>• When using several indoor stations: connection for the internal bus</li> </ul>
2 / 3	Connections for the indoor stations
4	Switch for the terminal resistor (see also chapter "Terminal resistor" on page 5) ┘┐ The terminal resistor is switched off. ┘┘ The terminal resistor is switched on.

5.2 Adjusting the device

5.2.1 Terminal resistor

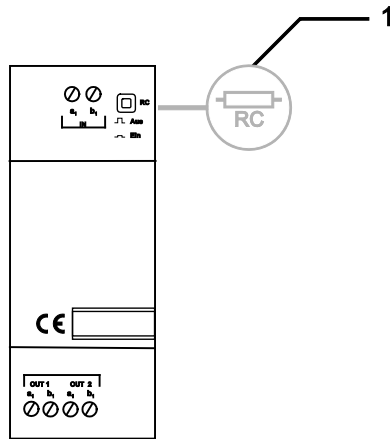


Fig. 2: Setting the terminal resistor on the device

- In pure audio installations always set the terminal resistor (1) on "OFF".
- In video installations or mixed audio and video installations set the terminal resistor for the the last devices of a branch on "ON".

## 6 Technical data

Designation	Value
Operating temperature (EN 50486)	-5°C to +45°C
Storage temperature	-20°C – +70°C
Protection	IP 20
Single-wire clamps	2 x 0.6 mm <sup>2</sup> – 2 x 1 mm <sup>2</sup>
Fine-wire clamps	2 x 0.6 mm <sup>2</sup> – 2 x 0.75 mm <sup>2</sup>
Bus voltage	28 V- ±2 V

## 7 Mounting / Installation



### Warning

#### Electric voltage!

Risk of death and fire due to electrical voltage of 230 V.

- Low-voltage and 230 V cables must not be installed together in a flush-mounted socket!  
In case of a short-circuit there is the danger of a 230 V load on the low-voltage line.

### 7.1 Requirements for the electrician



### Warning

#### Electric voltage!

Install the device only if you have the necessary electrical engineering knowledge and experience.

- Incorrect installation endangers your life and that of the user of the electrical system.
- Incorrect installation can cause serious damage to property, e.g. due to fire.

The minimum necessary expert knowledge and requirements for the installation are as follows:

- Apply the "five safety rules" (DIN VDE 0105, EN 50110):
  1. Disconnect from power;
  2. Secure against being re-connected;
  3. Ensure there is no voltage;
  4. Connect to earth;
  5. Cover or barricade adjacent live parts.
- Use suitable personal protective clothing.
- Use only suitable tools and measuring devices.
- Check the type supply network (TN system, IT system, TT system) to secure the following power supply conditions (classic connection to ground, protective earthing, necessary additional measures, etc.).

### 7.2 General installation instructions

- Terminate all branches of the wiring system via a connected bus device (e.g., indoor station, outdoor station, system device).
- Do not install the system controller directly next to the bell transformer and other power supplies (to avoid interference).
- Do not install the wires of the system bus together with 230 V wires.
- Do not use common cables for the connecting wires of the door openers and wires of the system bus.
- Avoid bridges between different cable types.
- Use only two wires for the system bus in a four-core or multi-core cable.
- When looping, never install the incoming and outgoing bus inside the same cable.
- Never install the internal and external bus inside the same cable.

7.3 Mounting

The device 83320/2-500 must only be installed on mounting rails according to DIN EN 50022.

7.4 Connection

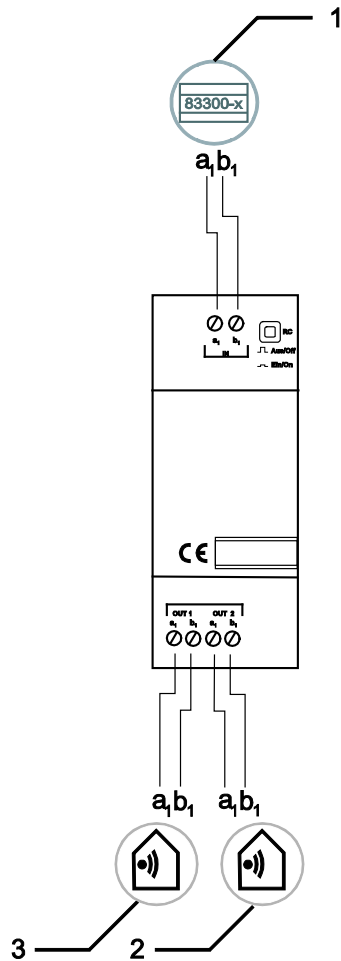


Fig. 3:

No.	Function
1	<ul style="list-style-type: none"> <li>• Connection for the system controller</li> <li>• When using several indoor stations: connection for the internal bus</li> </ul>
2 / 3	Connections for the indoor stations



A member of the ABB Group

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