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› m-e BELL-503 TXS Wireless Doorbell Transmitter Instruction Manual

m-e Bell-503 TXS

Instruction Manual

M-E BELL-503 TXS WIRELESS DOORBELL TRANSMITTER

Model: Bell-503 TXS

Product Overview

The m-e BELL-503 TXS is a wireless doorbell transmitter designed for use in multi-family homes. It is compatible with components from the BELL and FG series, offering flexibility for expansion and combination with existing systems.

Key features include:

- Wireless range up to 500 meters in freefield conditions.
- Supports 16 ringtones when used with BELL-500 components.
- Light-controlled nameplate illumination (requires connection to a ringtone transformer).
- Interchangeable nameplate accessible from the outside.
- Power supply options: 8-12V AC/DC via ringtone transformer or 2 x AAA batteries (not included).
- Expandable with additional transmitters and receivers.
- Splash-proof design according to IP44.
- Easy assembly.



Figure 1: Front view of the BELL-503 TXS wireless doorbell transmitter. This image shows the silver-colored unit with three illuminated nameplate sections, each with a "NAME" placeholder and a bell icon.

Setup and Installation

This section provides instructions for setting up and installing your BELL-503 TXS wireless doorbell transmitter.

1. Power Supply Options

The BELL-503 TXS can be powered in two ways:

1. **Via Ringtone Transformer:** Connect to an 8-12V AC/DC ringtone transformer. This option enables the light-controlled nameplate illumination.
2. **Via Batteries:** Insert 2 x AAA batteries (not included) into the designated battery compartment. Ensure correct polarity.

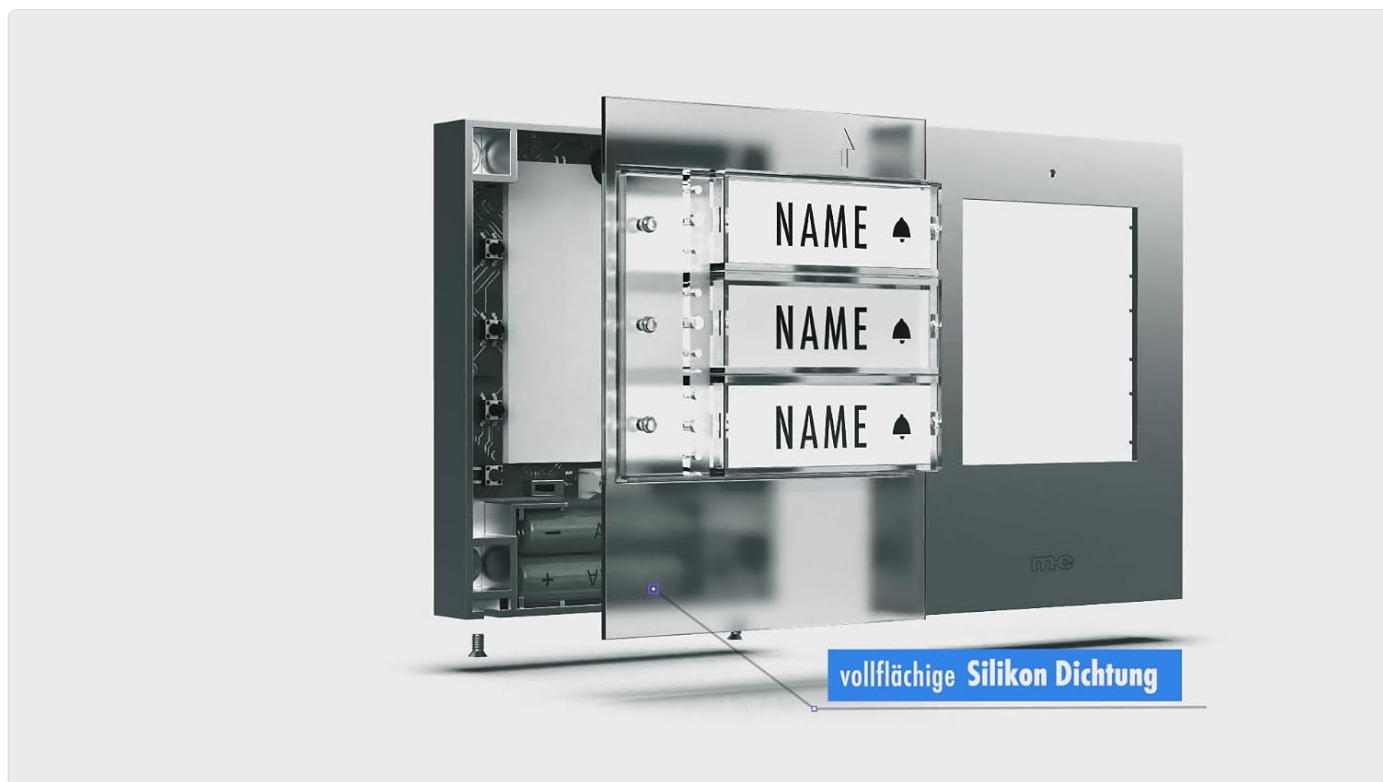


Figure 2: Internal view of the BELL-503 TXS, illustrating the battery compartment and the full-surface silicone seal for splash protection.

2. Mounting the Transmitter

The doorbell transmitter is designed for easy assembly. Choose a suitable location near your entrance. The unit is splash-proof (IP44), making it suitable for outdoor installation in protected areas.

- Use the provided screws and dowels for secure mounting.
- Ensure the mounting surface is flat and stable.
- Consider the optimal wireless range when selecting the mounting location.



Figure 3: The BELL-503 TXS doorbell transmitter installed on an exterior wall next to a modern entrance door, demonstrating its compact and discreet appearance.

Operating Instructions

Once installed, the BELL-503 TXS operates as a wireless trigger for your doorbell system.

Wireless Range and Compatibility

The BELL-503 TXS offers a significant wireless range, which can vary based on the components used and environmental factors:

- **Full Range (up to 500m freefield):** Achieved when using exclusively BELL-500 series components. This configuration also provides access to all 16 available ringtones.
- **Reduced Range (max. 300m):** Occurs when combining BELL-500 components with transmitters or receivers from the older FG or BELL series. In this mixed setup, only 8 melodies are available.



Figure 4: Visual representation of the wireless range, showing the doorbell transmitter and a receiver unit with a maximum range of 500 meters in open field conditions.

Building materials can significantly impact wireless range. Refer to the diagrams below for examples:



Auswirkungen von verschiedenen Baumaterialien auf die Funk-Reichweite

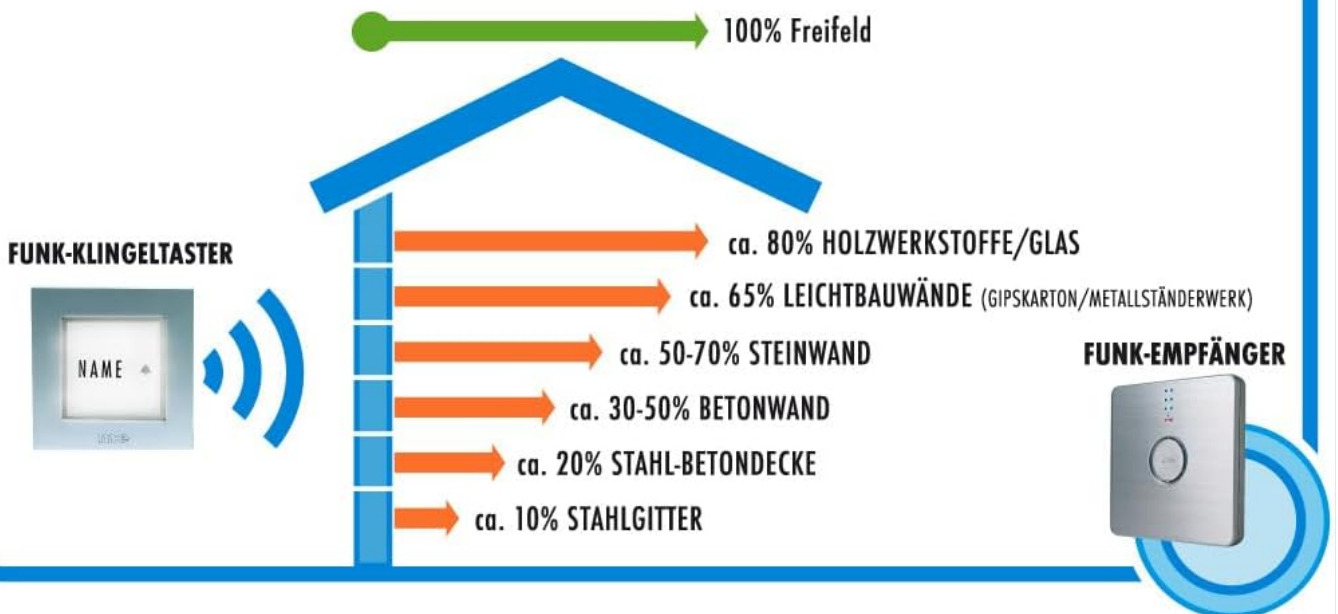


Figure 5: This diagram illustrates how different building materials affect the wireless range. For example, wood/glass allows approximately 80% of the signal, while steel concrete ceilings may only allow 20%.



Beispiel für FUNK-REICHWEITEN bei Verwendung von unterschiedlichen Baustoffen

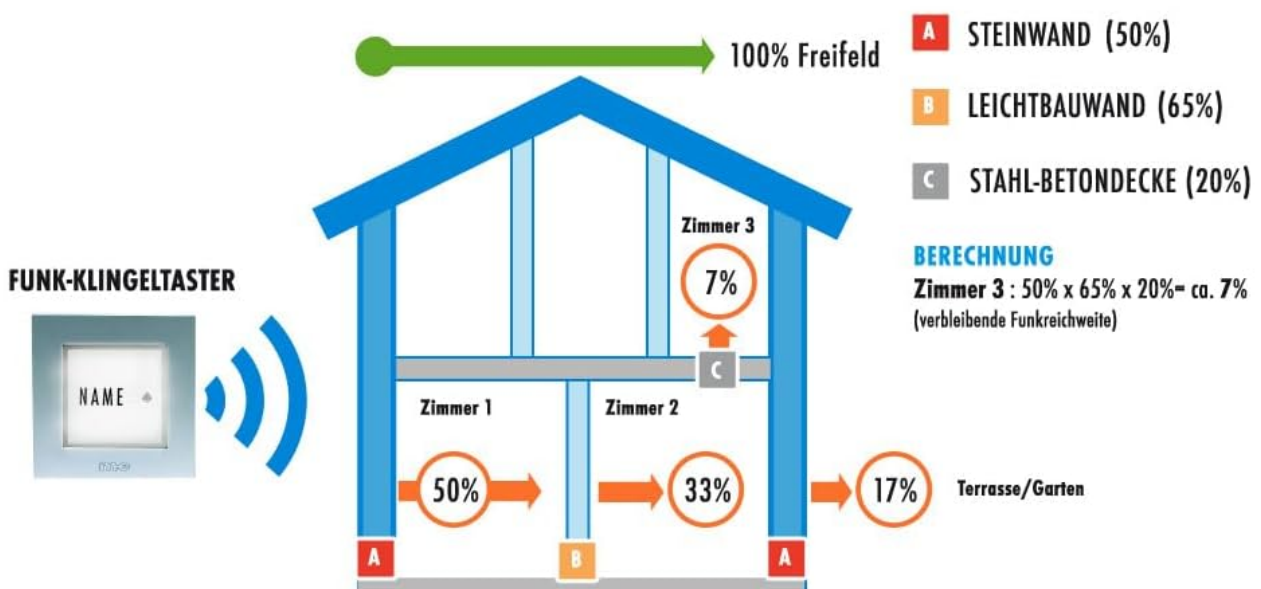


Figure 6: An example demonstrating range calculation within a multi-room environment, showing signal reduction through different wall types (e.g., stone wall, lightweight wall, steel-concrete ceiling).

Nameplate Management

The nameplate on the BELL-503 TXS is designed to be easily interchangeable from the outside, allowing for convenient updates to names or information.

Maintenance

To ensure optimal performance and longevity of your BELL-503 TXS doorbell transmitter, follow these maintenance guidelines:

- **Battery Replacement:** If using battery power, replace the 2 x AAA batteries when the signal weakens or the unit stops functioning. Always use fresh, high-quality batteries.
- **Cleaning:** Wipe the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these can damage the surface. Ensure no water enters the internal components.
- **Environmental Conditions:** While splash-proof (IP44), avoid exposing the unit to direct, heavy rainfall or prolonged submersion in water. The operating temperature range is -20 to +50 °C.

Troubleshooting

If you experience issues with your BELL-503 TXS, consult the following common problems and solutions:

Problem	Possible Cause	Solution
Doorbell does not ring or signal is weak.	Low or dead batteries (if battery powered). Transmitter out of range or signal obstructed. Incompatible receiver unit.	Replace AAA batteries. Relocate transmitter or receiver to improve line of sight. Consider building materials affecting range. Ensure receiver is compatible with BELL-500 series or note reduced range/melodies with FG/BELL series.
Nameplate illumination not working.	Not connected to a ringtone transformer. Faulty transformer or wiring.	Ensure the unit is powered via an 8-12V AC/DC ringtone transformer, not just batteries. Check transformer and wiring connections.

Specifications

Feature	Detail
Model Number	Bell-503 TXS
Manufacturer	m-e
Wireless Range	Up to 500m (freefield with BELL-500 components), max. 300m (with FG/BELL series components)
Ringtones	16 (with BELL-500 components), 8 (with FG/BELL series components)
Power Supply	8-12V AC/DC or 2 x AAA batteries (not included)
Dimensions (W x H x D)	88 x 114 x 22 mm (approx. 3.46 x 4.49 x 0.87 inches)
Temperature Range	-20 to +50 °C
Protection Class	IP44 (Splash-proof)

Feature	Detail
Included Components	1 x wireless watch button (transmitter), 1 x screws and dowels

Warranty and Support

Information regarding product warranty and customer support was not provided in the available documentation. Please refer to the product packaging or the manufacturer's official website for details on warranty coverage and how to obtain support for your m-e BELL-503 TXS wireless doorbell transmitter.

For further assistance, you may also contact the retailer from whom you purchased the product.

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