AFIL-USB

Audio induction loop extension kit with USB interface

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Compact size

IEC 60118-4 compliant

Easy integration

USB interface

Modern induction loop

The AFIL-USB provides an easy way to fit Intercom stations with an induction loop for the hearing impaired. To install it, a free USB port is all that is needed.

The compact size allows it to fit both into a surface and into a flush mount kit. Thanks to the user-friendly plug and play installation, the AFIL-USB is immediately ready for use.

The AFIL-USB is developed in accordance with IEC 60118-4. This ensures an absolute "barrier-free communication" for people who depend on hearing aids.

Features and highlights

- AFIL set for installation in a flush or surface mount box
- Fully integrated, IEC-60118-4-compliant induction loop system enables hearing aid users to receive Intercom audio signals in clear, uninterrupted quality
- Power supply and control via USB
- Ideally for Intercom stations with USB port
- Easy configuration via the web interface of the Intercom station

AFIL-USB
Technical specifications

Technical data

Drive current:	1.1 A
Frequency response:	50 Hz to 7 kHz (–3 dB)
Transmission power (at 1 kHz):	380 mW
Operating temperature range:	–15 °C to +70 °C (5 °F to +158 °F)
Storage temperature range:	–40 °C to +85 °C (–40 °F to +185 °F)
Relative humidity:	up to 95%, not condensing
Connection:	USB 2.0 (Type A) [1] cable length: approx. 95 mm (3.74 in)
Power supply:	via USB [2] current consumption: < 0.5 A power requirement standby: 145 mW max. power requirement: < 2.5 W
Approvals and compliances:	EN 61000-6-2, EN 61000-6-3, EN 55032 Class B, EN 55024, FCC Part 15 Class B, ICES-003 Class B EN 62311, EN 301489-1/-3, EN 303348, EN 60529 IP20 IEC/EN/UL 62368-1, CB-Scheme (by UL), UL listed (E351589) IEC 60118-4, RED 2014-53-EU compliant / notified body EU-Ident No. 0678 / Certificate No. G111058K
Dimensions (W x H x D):	18 x 200 x 14 mm (0.71 x 7.87 x 0.55 in)
Weight incl. package:	approx. 200 g (0.44 lbs)

[1] Compliant with USB audio device class 1.0.
[2] Only use USB extension cable with ferrite bead, if required.

Extent of supply

- AFIL module
- 2 spacer, 5.5 x 12 mm (0.22 x 0.47 in), M3 thread
- 2 oval-head screws, M3x6, hexalobular socket
- 2 countersunk screws, M3x6, hexalobular socket
- 2 mounting screws, KA3x8, hexalobular socket
- Information label for identification as audio induction loop system
- Short reference

AFIL-USB
Installation instructions

Mounting instructions

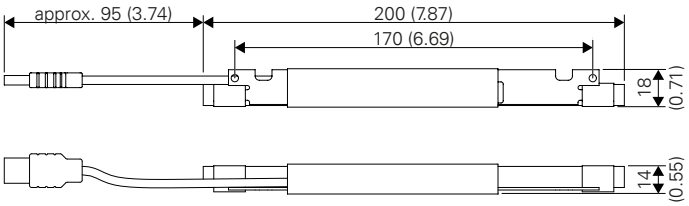
- Do not install the device in areas where it may become wet or damp, and avoid dusty, humid and high temperature environments.
- Ensure a minimum distance of 8 mm (0.31 in) to the housing or mounting plate (e.g. using spacer pins included in the extent of supply).
- Only use recommended tools when installing the device.

Safety instructions

- This device shall be installed or replaced by trained and qualified personnel only.
- Due to the brittle ferrite material, there is an increased risk of breakage at the antenna rod.
- The requirements of the standard IEC 60118-4 are met by the installation at the specified height and at the correct distance from a single person when properly commissioned.
- Metal structures significantly affect the performance of the induction loop system. The magnetic field generated by an induction loop system induces a current in surrounding metal structures, which weakens the magnetic field and may cause losses. Examples of metal structures:
  - Reinforced concrete
  - Beams, girders, constructions made of metal
  - Metal facade cladding and walls
  - Metal box constructions (escalator, lift)
- Install or store this device out of the reach of children and do not allow persons unfamiliar with the device and these instructions to handle and operate the device.
- All changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
  - Reorient or relocate the receiving antenna.
  - Increase the separation between the equipment and receiver.
  - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/TV technician for help.

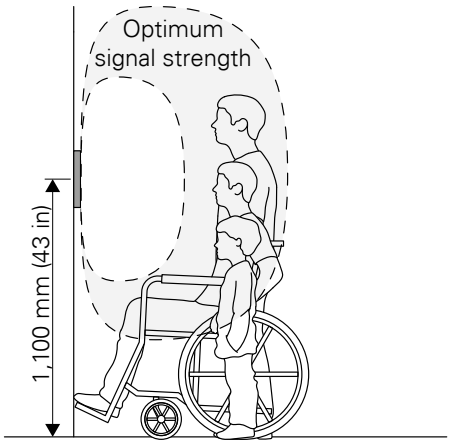
Dimensions

Measuring units in mm (in), not to scale!



Recommended mounting height of the induction loop

With a mounting height of approx. 1,100 mm (43 in), AFIL signals are ideally transmitted for children, wheelchair users and standing adults. A distance of approx. 500 mm (20 in; arm's length) is recommended between the Intercom station and the inductive hearing aid. If required, adjust the mounting height to the respective requirements and local regulations.

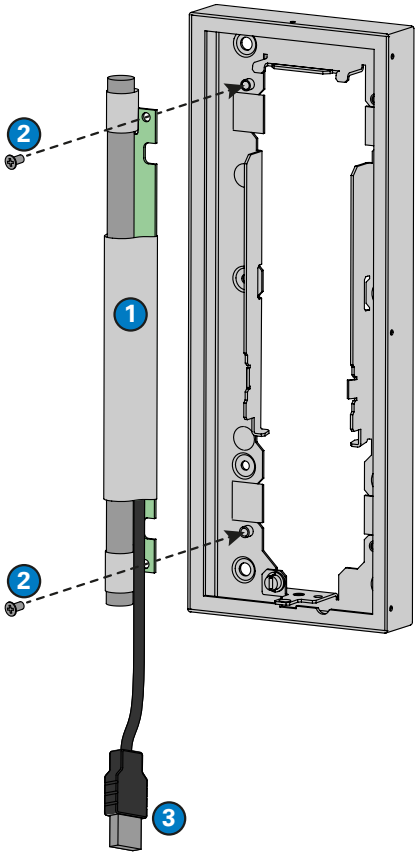


Recommended mounting height of operating elements

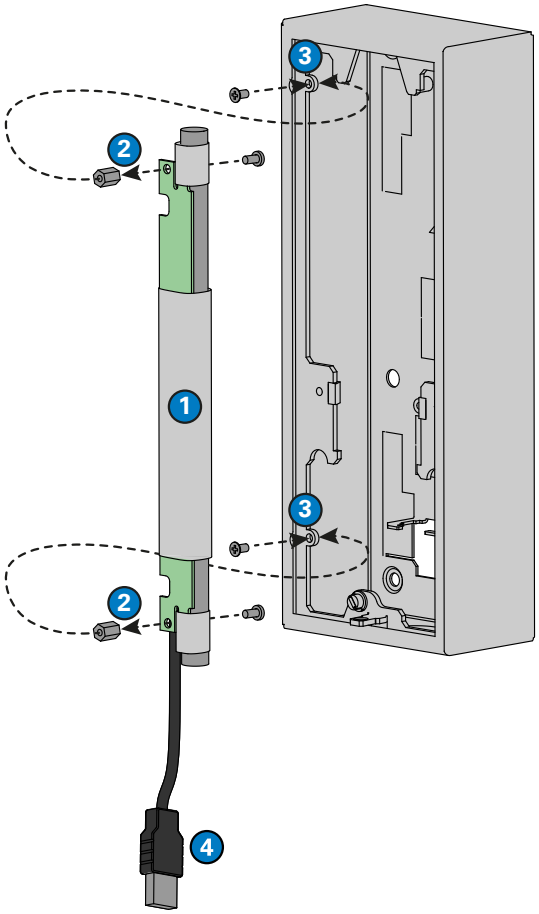
For barrier-free operation, operating elements should be mounted with enough space to walls and corners. Operating elements such as call buttons should be installed between 800 mm and 1,000 mm above the finished floor. For ideal use by children, wheelchair users and standing adults, it may be necessary to install two Intercom stations above each other or to use additional remote button modules or induction loop amplifier modules. If required, adjust the mounting height to the respective requirements and local regulations.

Mounting

Flush mount box XDX SH



Flush mount box XDX SHE



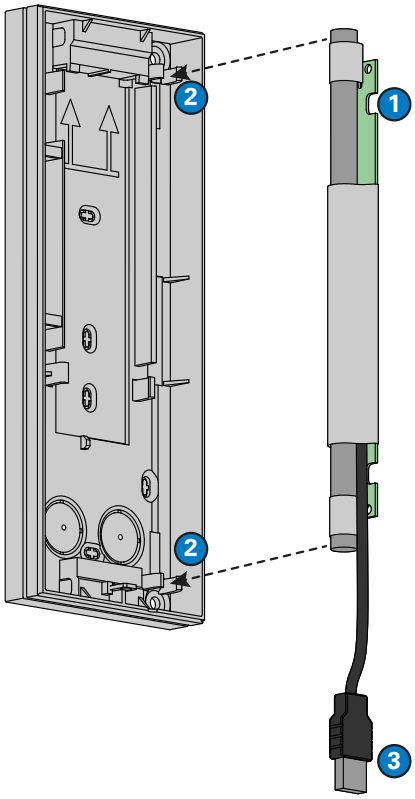
Mounting within the surface mount box XDX SH

1. Ensure the AFIL-USB is in the correct position (USB cable is pointing down and the PCB is on the rear).
2. Fix the AFIL-USB using the two oval-head screws on the left-hand side within the surface mount box XDX SH (included in the extent of supply).
3. Connect the USB cable to a free USB port on the Intercom station.

Mounting within the surface mount box XDX SHE

1. Ensure the AFIL-USB is in the correct position (USB cable is pointing down and the PCB is on the front).
2. Fix the two spacers to the AFIL-USB using two oval-head screws (both included in the extent of supply).
3. Fix the AFIL-USB through the two spacers to the left inner side of the surface mount box XDX SHE using two countersunk screws (included in the extent of supply).
4. Connect the USB cable to a free USB port on the Intercom station.

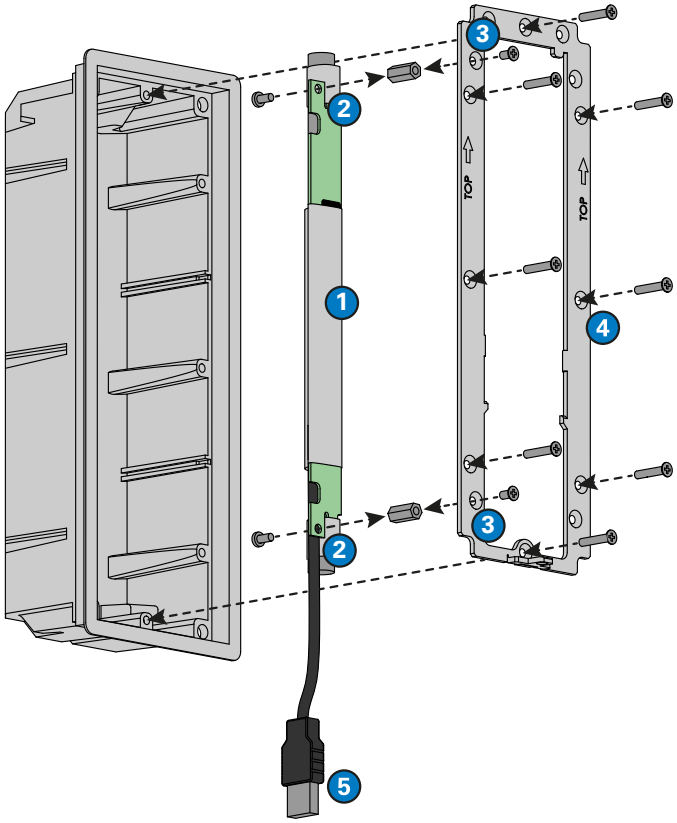
Surface mount box XDX SHID



Mounting within the surface mount box XDX SHID

1. Ensure the AFIL-USB is in the correct position (USB cable is pointing down and the PCB is on the right side).
2. Clip the AFIL-USB into the holder on the right-hand side within the surface mount box XDX SHID.
3. Connect the USB cable to a free USB port on the Intercom station.

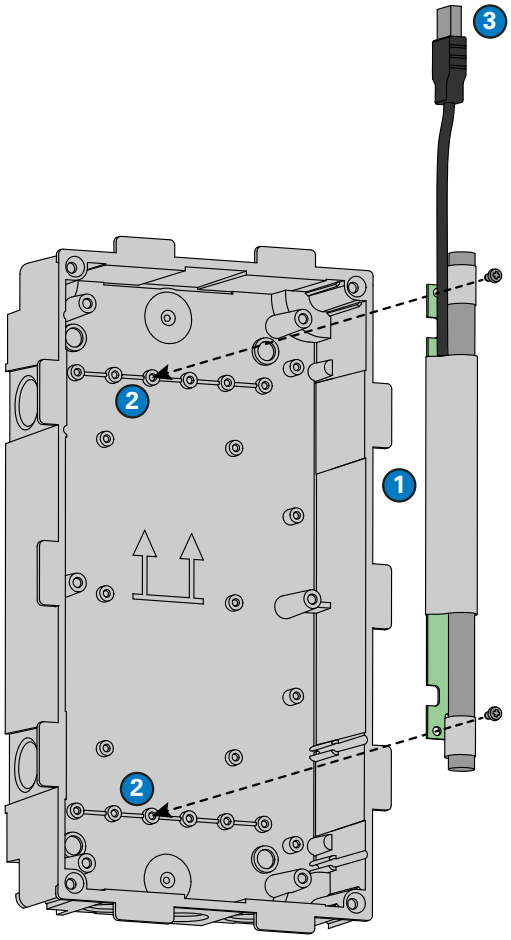
Flush mount box XDX FB



Mounting within the flush mount box XDX FB

1. Ensure the AFIL-USB is in the correct position (USB cable is pointing down and the PCB is pointing at the mounting frame).
2. Fix the two spacers to the AFIL-USB using the two oval-head screws (both in extent of supply).
3. Fix the AFIL-USB on the mounting frame using the two countersunk screws (in extent of supply).
4. Mount the mounting frame to the flush mount box XDX FB as described in the short reference "D-BZ-XDX-FB".
5. Connect the USB cable to a free USB port on the Intercom station.

WS mounting box



Mounting within the WS mounting box

1. Ensure the AFIL-USB is in the correct position (USB cable is pointing up and the PCB is pointing to the WS mounting box).
2. Fix the AFIL-USB on the top and bottom of the third screw boss (counted from the left) in the WS mounting box using the two mounting screws (included in the extent of supply).
3. Connect the USB cable to a free USB port on the Intercom station.

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The development and manufacturing processes are certified in accordance with **EN ISO 9001:2015**.

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