

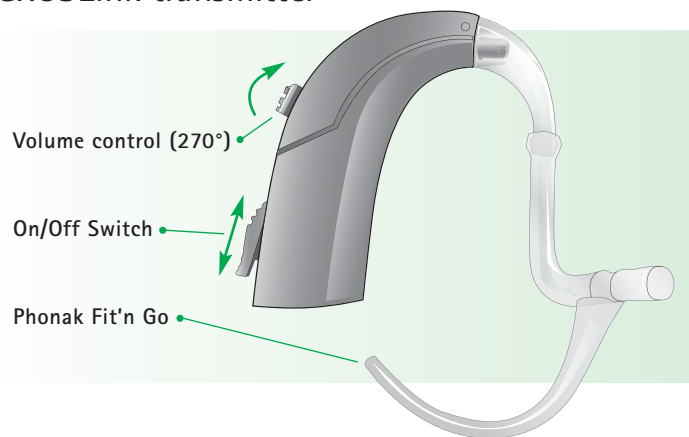
# CROSLink™



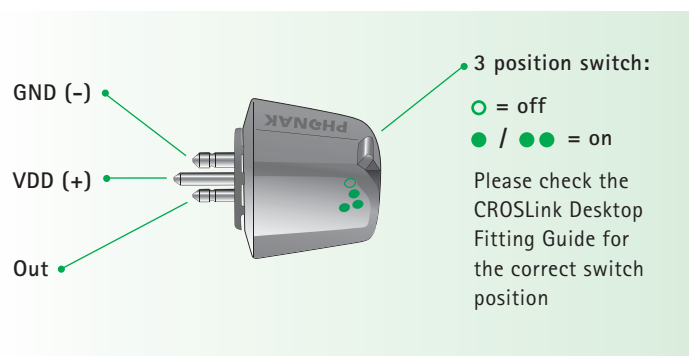
Phonak CROSLink provides a wireless and universal solution to those who have a hearing loss in one ear that cannot benefit from a hearing instrument. CROSLink brings the sound across to the better ear, and therefore reduces head shadow effect and restores multi-directional reception of sounds. CROSLink is universal, which means it works with most BTE hearing instruments including those from other manufacturers.

The CROSLink consist of a transmitter, which picks up the sound with an omni directional microphone, and transfers it via a 374 kHz AM signal to the CROSLink receiver attached to the audio shoe/hearing instrument on the better ear. CROSLink can be used for CROS and BiCROS fittings.

## CROSLink transmitter



## CROSLink receiver



## Features:

### CROSLink system (transmitter and receiver):

- **Universal:**  
Compatible with BTE instruments from more than 30 manufacturers
- **Wireless:**  
Reliable performance without an annoying cable
- **Cosmetically appealing:**  
Compact design of the receiver and transmitter
- **Versatile:**  
Ideal for BiCROS and CROS fittings
- **Easy to fit:**  
Just clip and go!
- **Functional:**  
Volume control and detachable receiver

## Technical Data

### CROSLink Transmitter:

**Housing:**

Similar to Perseo 311

**Power Supply:**

Zinc Air Battery Type 13 (1.2 V)

**Power Consumption:**

I=1.7 mA (>100 hours battery life)

**Field Strength:**

H = 23 dB  $\mu$ A/m @1 m

H = -37 dB  $\mu$ A/m @10 m

**Carrier Frequency:**

374 kHz

**Modulation:**

AM (50% modulation when input level over AGC Knee-point)

**AGC-Knee-point:**

72 dB SPL

### CROSLink Receiver:

**Housing:**

Similar to MLxS

**Power Supply:**

From hearing instrument (1.2 V)

**Power Consumption:**

I=0.17 mA

**Receiving Frequency:**

374 kHz

**Modulation:**

AM

**Output level CRX:**

Position BiCROS:  $U_{out} = 4.0 \text{ mV}_{rms}/Z_{out} = 330 \text{ ohm}$

Position BiCROS+MIC:  $U_{out} = 40.0 \text{ mV}_{rms}/Z_{out} = 39 \text{ kohm}$

(Transmitter placed at 16.5 cm distance,  
input signal 80 dB SPL volume control of transmitter in max position)

**Compatibility:**

Pin and electrically compatible with MLxS input of hearing instruments

## Technical Data

### CROSLink system (transmitter and receiver):

**Frequency Response:**

250 Hz to 4 kHz

**Application Range (Ear to ear distance):**

12 cm to 20 cm, typical 16.5 cm  
(reference for measurements)

**Signal To Noise Ratio (SNR):**

> 45 dB (input signal 80 dB SPL)

**Equivalent Noise at the CTX Mic input:**

27 dB SPL measured with Phonak Supero 411

**Total Harmonic Distortion (THD):**

< 5%

**Homologation:**

USA: FCC Rule CFR 47, Part 15, Subpart C

Canada: RSS210 Issue 5

Europe: where authorized,

– EN300 330-2

– EN301 489-9 (Wireless microphone, emc)