MEB 102 (-L)
MEB 104 (-L) Install Boundary Layer Microphone

FEATURES

- Unobtrusive, timeless design
- Optimized for speech
- Made in Germany

Compact and unobtrusively designed, the boundary layer microphones **MEB 102** (omnidirectional) and **MEB 104** (cardioid) fits any style of interior and can be easily installed into surfaces such as tables or ceiling tiles. Each of them features a proven Sennheiser microphone capsule for the best speech intelligibility, and is protected by a rugged housing. Its -L variant features a bi-color LED ring for status indication.



MEB 102



MEB 104

ARCHITECT'S SPECIFICATIONS

The microphone shall be a pre-polarized condenser boundary layer microphone designed for fixed installation in conference applications. The omni-directional microphone capsule shall be optimized for speech intelligibility. The microphone capsule shall be protected by a rugged sound inlet basket. The frequency response shall be 40 Hz-20,000 Hz and sensitivity shall be 16 mV/Pa. Nominal impedance at 1 kHz shall be 200 Ω. Equivalent noise level shall be 21 dB(A) or 31 dB weighted as per CCIR 468-3. Dynamic range shall be 104 dB (A). Maximum SPL shall be 125 dB. The microphone shall provide an XLR-3 connector and an M20 thread.
The microphone shall operate on 48 V phantom power. Current consumption shall be 3 mA. Dimensions shall be 28.5 mm (1.12") in diameter and 83 mm (3.27") in total height. The installation height shall be 12 mm (0.57"). Weight shall be 58 grams (2.05 oz).

Continued on page 2

TECHNICAL DATA

MEB 102

Transducer principle	pre-polarized condenser microphone
Acoustic principle	boundary layer microphone
Pick-up pattern	omni-directional
Frequency response	40 Hz – 20 kHz
Nominal impedance at 1 kHz	200 Ohm
Sensitivity	16 mV/Pa
Maximum sound pressure level	125 dB
Equivalent noise level	21 dB (A)
Equivalent noise level weighted as per CCIR 468-3	31 dB (CCIR)
Dynamic range	104 dB (A)
Phantom power	P 48
Current consumption	3 mA
Connector	XLR-3
Pin assignment XLR-3M out	1 = gnd 2 = + 3 = –
Weight	58 g
Height	83 mm (12 mm above surface)
Diameter	28.5 mm
Thread	M 20
Operating temperature	0 ° ... +40 °C

Continued on page 2

MEB 102 (-L) / MEB 104 (-L) Install Boundary Layer Microphone

ARCHITECT'S SPECIFICATIONS

Operating temperature shall range from 0 °C to +40 °C (+32 °F to +104 °F). The microphone shall be the Sennheiser MEB 102.

The Sennheiser MEB 102 microphone shall also be available as a variant (-L) with an XLR-5 connector and a bi-color LED ring for status indication. The current consumption of the -L version shall be 6 mA. The TLL voltage for LED activation shall be high level > 2.4 and low level < 0.4 V.

The microphone shall be a pre-polarized condenser boundary layer microphone designed for fixed installation in conference applications. The cardioid microphone capsule shall be optimized for speech intelligibility. The microphone capsule shall be protected by a rugged sound inlet basket. The frequency response shall be 40 Hz-20,000 Hz and sensitivity shall be 14 mV/Pa. Nominal impedance at 1 kHz shall be 200 Ω. Equivalent noise level shall be 28 dB(A) or 38 dB weighted as per CCIR 468-3. Dynamic range shall be 97 dB (A). Maximum SPL shall be 125 dB. The microphone shall provide an XLR-3 connector and an M20 thread.
The microphone shall operate on 48 V phantom power. Current consumption shall be 3 mA. Dimensions shall be 28.5 mm (1.12") in diameter and 90 mm (3.54") in total height. The installation height shall be 19 mm (0.75"). Weight shall be 60 grams (2.15 oz). Operating temperature shall range from 0 °C to +40 °C (+32 °F to +104 °F). The microphone shall be the Sennheiser MEB 104.

The Sennheiser MEB 104 microphone shall also be available as a variant (-L) with an XLR-5 connector and a bi-color LED ring for status indication. The current consumption of the -L version shall be 6 mA. The TLL voltage for LED activation shall be high level > 2.4 and low level < 0.4 V.

TECHNICAL DATA

MEB 102-L

Current consumption	6 mA
Connector	XLR-5
Pin assignment XLR-5M out	1 = gnd 2 = + (Mic +) 3 = – (Mic –) 4 = LED green (trigger signal) 5 = LED red (default)
LED light ring color	red / green
TTL levels for LED activation	high > 2.4 V low < 0.4 V

MEB 104

Transducer principle	pre-polarized condenser microphone
Acoustic principle	boundary layer microphone
Pick-up pattern	cardioid
Frequency response	40 Hz – 20 kHz
Nominal impedance at 1 kHz	200 Ohm
Sensitivity	14 mV/Pa
Maximum sound pressure level	125 dB
Equivalent noise level	28 dB (A)
Equivalent noise level weighted as per CCIR 468-3	38 dB (CCIR)
Dynamic range	97 dB (A)
Phantom power	P 48
Current consumption	3 mA
Connector	XLR-3
Pin assignment XLR-3M out	1 = gnd 2 = + 3 = –
Weight	60 g
Height	90 mm (19 mm above surface)
Diameter	28.5 mm
Thread	M 20
Operating temperature	0 ° ... +40 °C

MEB 104-L

Current consumption	6 mA
Connector	XLR-5
Pin assignment XLR-5M out	1 = gnd 2 = + (Mic +) 3 = – (Mic –) 4 = LED green (trigger signal) 5 = LED red (default)

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MEB 102 (-L) / MEB 104 (-L) Install Boundary Layer Microphone

TECHNICAL DATA

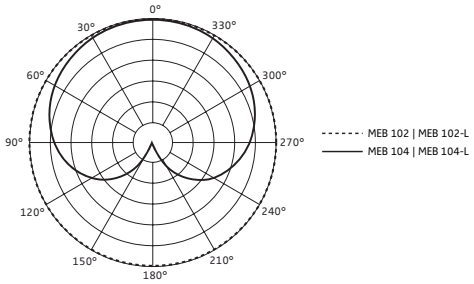
MEB 104-L

LED light ring color .....red / green

TTL levels for LED activation .....high > 2.4 V
low < 0.4 V

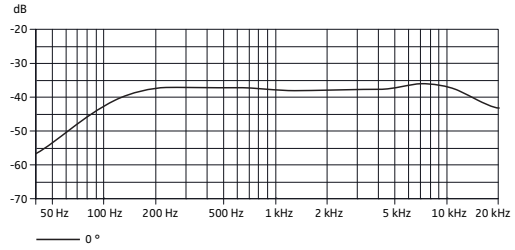
DELIVERY INCLUDES
1 boundary layer microphone
Mounting material
Leaflet

POLAR PATTERN

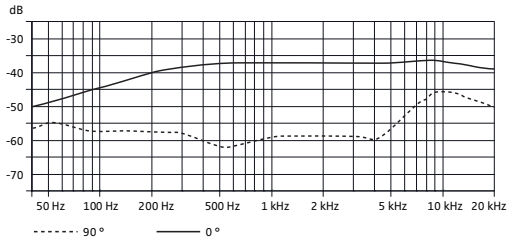


FREQUENCY RESPONSE

MEB 102 (-L)

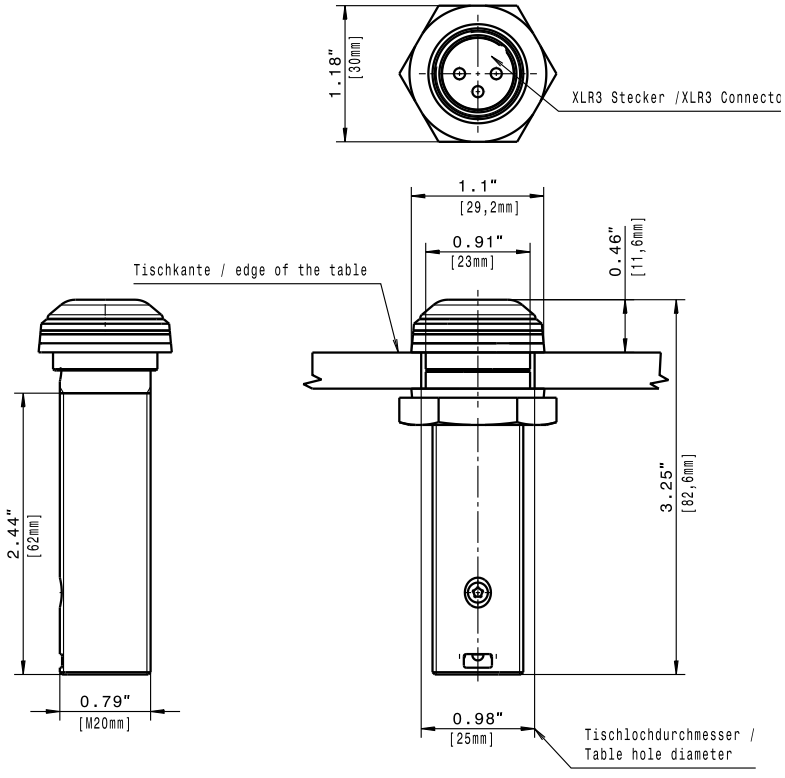


MEB 104 (-L)



DIMENSIONS

MEB 102

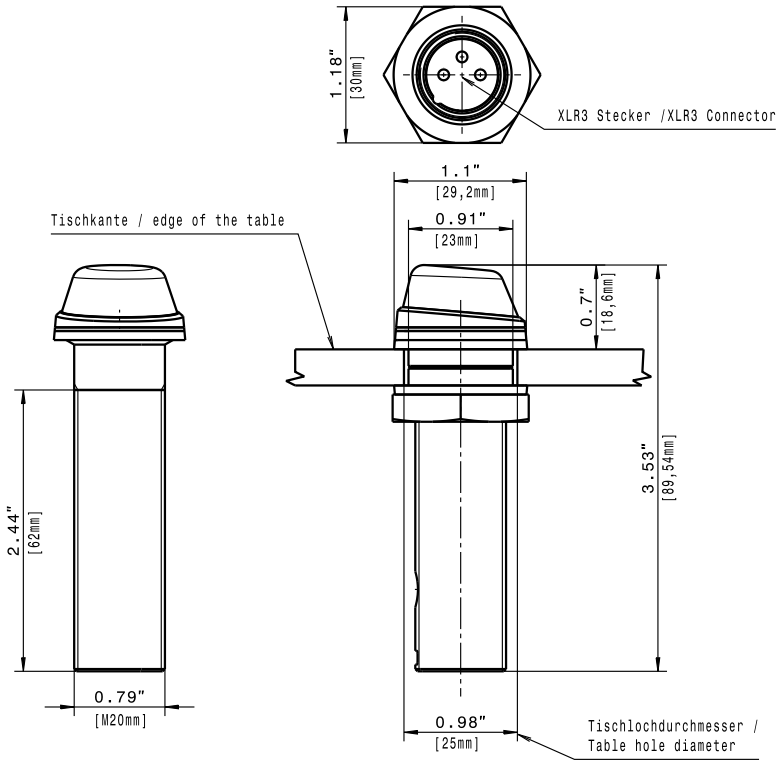


SENNHEISER

MEB 102 (-L) / MEB 104 (-L) Install Boundary Layer Microphone

DIMENSIONS

MEB 104



PRODUCT VARIANTS

MEB 102 B black	Cat. No. 505600
MEB 102 W white	Cat. No. 505601
MEB 102 G Nextel grey	Cat. No. 505602
MEB 102-L B black	Cat. No. 505603
MEB 102-L W white	Cat. No. 505604
MEB 102-L G Nextel grey	Cat. No. 505605
MEB 104 B black	Cat. No. 505606
MEB 104 W white	Cat. No. 505607
MEB 104 G Nextel grey	Cat. No. 505608
MEB 104-L B black	Cat. No. 505609
MEB 104-L W white	Cat. No. 505610
MEB 104-L G Nextel grey	Cat. No. 505611

RECOMMENDED ACCESSORIES

MAS 1 B Microphone Switch	Cat. No. 505618
MAS 1 W Microphone Switch	Cat. No. 505619
MAS 1 G Microphone Switch	Cat. No. 505620
MAS 133 Inline Logic box	Cat. No. 505621

Contact your local Service Partner:

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