

Classis BM 32 / 33 / 34

Boundary Microphones



Classis BM 32 B



Classis BM 33 B



Classis BM 34 SE

FEATURES

- RFI-proof due to Scudio™ technology
- Classis BM 32/34 with half-cardioid polar pattern
- Classis BM 33 with half-spherical polar pattern
- Flat, wide range frequency response
- High-quality reproduction of speech
- Unobtrusive design
- Ceiling or tabletop mounting
- Fast and easy installation

APPLICATIONS

The Classis BM 32 / 33 / 34 condenser boundary microphones have been designed for flush mounting into tabletops or ceilings. The microphones have been designed for applications such as tele/video conferencing, recording or amplification of round table discussions and wherever the microphone needs to be as unobtrusive as possible.

All microphones feature the innovative Scudio™ technology, making the microphones absolutely insensitive to wireless communication devices such as mobile phones.

The Classis BM 32 has a half-cardioid polar pattern, which increases the gain-before-feedback and decreases the amount of diffuse ambience. The Classis BM 34 corresponds to the Classis BM 32, but is provided with a bass roll-off filter. The Classis BM 33 has a half-spherical polar pattern making it ideal for large rooms.

The high sensitivity guarantees a constant output level even from long distance sources.

Elastic bearing rings achieve mechanical isolation from the mounting surface and therefore offer effective sound isolation of the microphone.

SUPPLIED ACCESSORY

- Elastic bearing rings

VERSIONS

| | | |
|------------------|---|-----------------|
| Classis BM 32 B | Half-cardioid, black | Order # 489.395 |
| Classis BM 32 W | white | Order # 489.409 |
| Classis BM 32 SE | silver metallic effect, microphone basket made of apuraLine® Topmesh double-layer fine-meshed wire weave. | Order # 489.387 |
| Classis BM 32 E | Half-cardioid, black, without pre-amp, in conjunction with MCS 563 L, MCS 553 L, MCS-D 3643 | Order # 721.913 |
| Classis BM 33 B | Half-spherical, black | Order # 489.425 |
| Classis BM 33 W | white | Order # 489.433 |
| Classis BM 33 SE | silver metallic effect, microphone basket made of apuraLine® Topmesh double-layer fine-meshed wire weave. | Order # 489.417 |
| Classis BM 34 B | Half-cardioid, black, bass roll-off filter | Order # 489.360 |
| Classis BM 34 W | white | Order # 489.379 |
| Classis BM 34 SE | silver metallic effect, microphone basket made of apuraLine® Topmesh double-layer fine-meshed wire weave. | Order # 489.352 |

INSTALLATION

- Mounting hole with elastic bearing rings: Ø 24 mm (15/16")
- Mounting hole without elastic bearing rings: Ø 20 mm (13/16")
- Max. table /ceiling thickness: 57 mm (2.25")

Classis BM 32 / 33 / 34

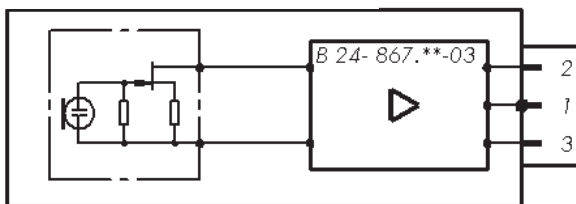
TECHNICAL SPECIFICATIONS

| | Classis BM 32 | Classis BM 33 | Classis BM 34 |
|-------------------------------------|-------------------------|-------------------------|-------------------------|
| Transducer type | Condenser | Condenser | Condenser |
| Frequency response | 50 - 18,000 Hz | 50 - 20,000 Hz | 150 - 18,000 Hz |
| Polar pattern | Half-cardioid | Half-spherical | Half-cardioid |
| Open circuit voltage | | | |
| at 1 kHz (0 dB = 1 V/Pa) | 19 mV/Pa = -34.4 dBV | 25 mV/Pa = -32 dBV | 19 mV/Pa = -35 dBV |
| Nominal impedance | < 200 Ω | 400 Ω | 200 Ω |
| Load impedance | ≥ 1 kΩ | ≥ 2 kΩ | ≥ 1 kΩ |
| S/N ratio rel. to 1 Pa | 69 dB [A] | 68 dB [A] | 60 dB |
| Noise voltage | 6.0 μV [A] | 10 μV [A] | |
| Max. sound pressure level | 107 dB [SPL @ 1% THD] | 117 dB [SPL @ 1% THD] | |
| Equivalent SPL | 25 dB [A] | 26 dB [A] | 26 dB |
| Phantom supply | 8 - 52 V | 8 - 52 V | 8 - 52 V |
| Current consumption | 2.0 mA | 2.0 mA | 3.4 mA |
| Connection | 3-pin XLR | 3-pin XLR | 3-pin XLR |
| Weight (with nut and bearing rings) | approx. 85 g [0.19 lbs] | approx. 85 g [0.19 lbs] | approx. 85 g [0.19 lbs] |

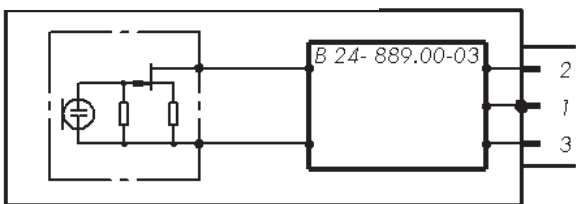
WIRING DIAGRAMS

Positive pressure produces positive voltage on pin 2.

Classis BM 32/33/34



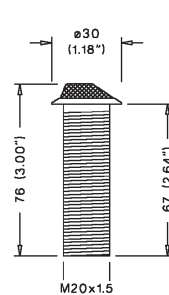
Classis BM 32 E



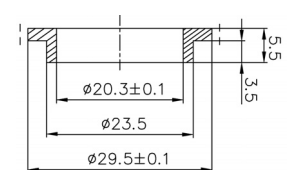
DIMENSIONS

In millimetres (inches in brackets)

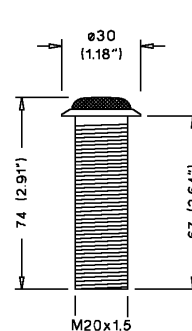
Classis BM 32



Bearing ring



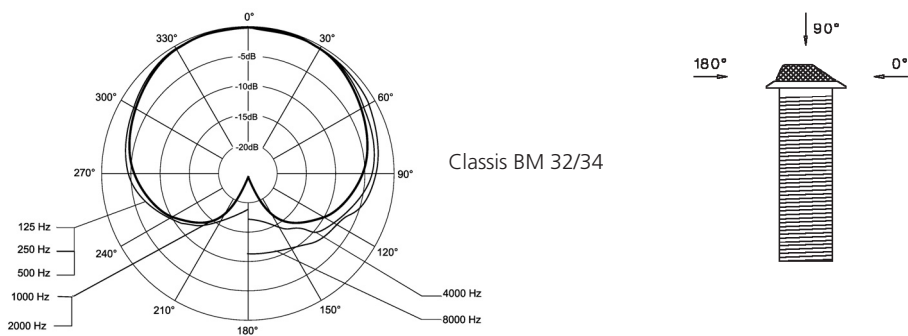
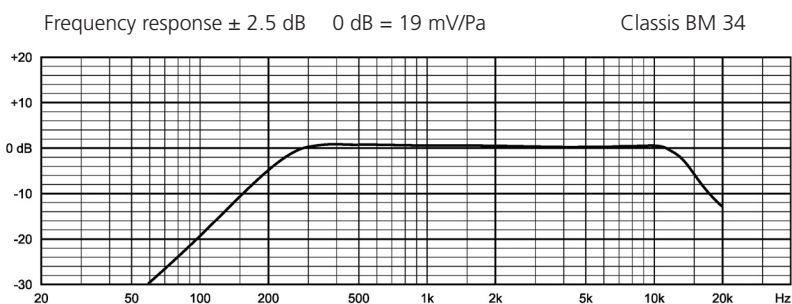
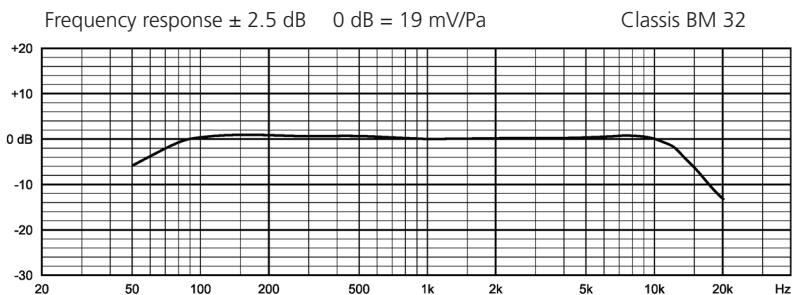
Classis BM 33



Classis BM 32 / 33 / 34

FREQUENCY RESPONSE & POLAR PATTERN

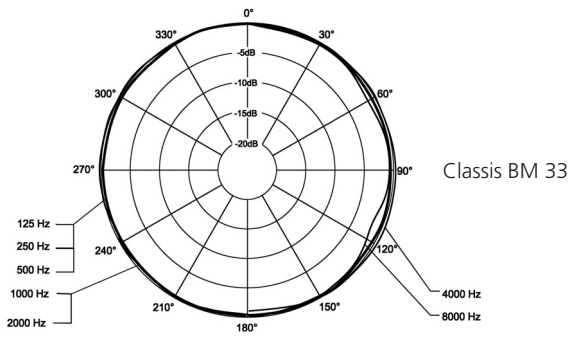
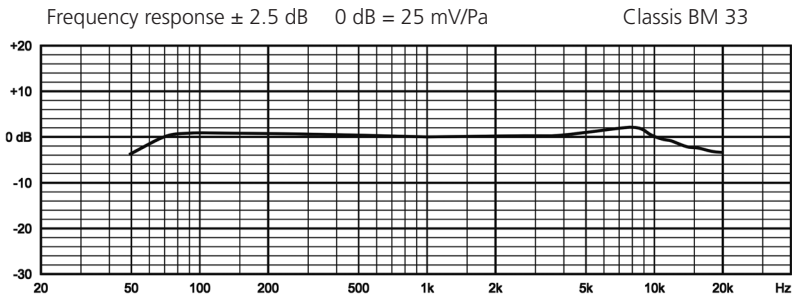
This frequency response curve (measuring tolerance ± 2.5 dB) and polar pattern correspond to a typical production sample for this microphone.



Classis BM 32 / 33 / 34

FREQUENCY RESPONSE & POLAR PATTERN

This frequency response curve (measuring tolerance ± 2.5 dB) and polar pattern correspond to a typical production sample for this microphone.



Classis BM 32 / 33 / 34

ARCHITECT'S SPECIFICATIONS

The cardioid electret condenser boundary microphone shall be a high-quality installation microphone for tabletops or ceilings. The microphone shall be provided with an integrated amplifier and power supply. The SCUDIO® technology shall eliminate interferences of other wireless communication devices. The microphone shall be powered by phantom power between 8 V and 52 V. The filter in the microphone grille shall eliminate wind and pop noise. The fully metal housing shall provide a M20 x 1.5 thread with fastening nut and black metal microphone grille. The delivery shall include elastic bearing rings to compensate mechanical noise and vibration. The frequency response shall be 50 Hz - 18 kHz. The open circuit voltage shall be 19 mV/Pa. The nominal impedance shall be 200 ohms. The lower part of the housing shall provide a 3-pin male XLR connector. The total length shall be 76 mm [3"], the shaft length shall be 67 mm [2.6"], the shaft diameter shall be 20 mm [0.8"] (M20 x 1.5 thread with fastening nut), the head diameter shall be 30 mm [1.2"], the length of the head shall be 9 mm [0.4"]. The net weight shall be 0.085 kg [0.2 lbs].

Manufacturer: beyerdynamic
Type: Classis BM 32 B

The cardioid electret condenser boundary microphone shall be a high-quality installation microphone for tabletops or ceilings. The microphone shall be provided with an integrated amplifier and power supply. The SCUDIO® technology shall eliminate interferences of other wireless communication devices. The microphone shall be powered by phantom power between 8 V and 52 V. The filter in the microphone grille shall eliminate wind and pop noise. The fully metal housing shall provide a M20 x 1.5 thread with fastening nut and a microphone grille with silver metal-look made of double-layer, fine-meshed acuraLINE® wire mesh. The delivery shall include elastic bearing rings to compensate mechanical noise and vibration. The frequency response shall be 50 Hz - 18 kHz. The open circuit voltage shall be 19 mV/Pa. The nominal impedance shall be 200 ohms. The lower part of the housing shall provide a 3-pin male XLR connector. The total length shall be 76 mm [3"], the shaft length shall be 67 mm [2.6"], the shaft diameter shall be 20 mm [0.8"] (M20 x 1.5 thread with fastening nut), the head diameter shall be 30 mm [1.2"], the length of the head shall be 9 mm [0.4"]. The net weight shall be 0.085 kg [0.2 lbs].

Manufacturer: beyerdynamic
Type: Classis BM 32 SE

The cardioid electret condenser boundary microphone shall be a high-quality installation microphone for tabletops or ceilings. The microphone shall be provided with an integrated amplifier and power supply. The SCUDIO® technology shall eliminate interferences of other wireless communication devices. The microphone shall be powered by phantom power between 8 V and 52 V. The filter in the microphone grille shall eliminate wind and pop noise. The fully metal housing shall provide a M20 x 1.5 thread with fastening nut and white metal microphone grille. The delivery shall include elastic bearing rings to compensate mechanical noise and vibration. The frequency response shall be 50 Hz - 18 kHz. The open

circuit voltage shall be 19 mV/Pa. The nominal impedance shall be 200 ohms. The lower part of the housing shall provide a 3-pin male XLR connector. The total length shall be 76 mm [3"], the shaft length shall be 67 mm [2.6"], the shaft diameter shall be 20 mm [0.8"] (M20 x 1.5 thread with fastening nut), the head diameter shall be 30 mm [1.2"], the length of the head shall be 9 mm [0.4"]. The net weight shall be 0.085 kg [0.2 lbs].

Manufacturer: beyerdynamic
Type: Classis BM 32 W

The omnidirectional electret condenser boundary microphone shall be a high-quality installation microphone for tabletops or ceilings. The microphone shall be provided with an integrated amplifier and power supply. The SCUDIO® technology shall eliminate interferences of other wireless communication devices. The microphone shall be powered by phantom power between 8 V and 52 V. The filter in the microphone grille shall eliminate wind and pop noise. The fully metal housing shall provide a M20 x 1.5 thread with fastening nut and black metal microphone grille. The delivery shall include elastic bearing rings to compensate mechanical noise and vibration. The frequency response shall be 50 Hz - 18 kHz. The open circuit voltage shall be 25 mV/Pa. The nominal impedance shall be 400 ohms. The lower part of the housing shall provide a 3-pin male XLR connector. The total length shall be 76 mm [3"], the shaft length shall be 67 mm [2.6"], the shaft diameter shall be 20 mm [0.8"] (M20 x 1.5 thread with fastening nut), the head diameter shall be 30 mm [1.2"], the length of the head shall be 9 mm [0.4"]. The net weight shall be 0.085 kg [0.2 lbs].

Manufacturer: beyerdynamic
Type: Classis BM 33 B

The omnidirectional electret condenser boundary microphone shall be a high-quality installation microphone for tabletops or ceilings. The microphone shall be provided with an integrated amplifier and power supply. The SCUDIO® technology shall eliminate interferences of other wireless communication devices. The microphone shall be powered by phantom power between 8 V and 52 V. The filter in the microphone grille shall eliminate wind and pop noise. The fully metal housing shall provide a M20 x 1.5 thread with fastening nut and a microphone grille with silver metal-look made of double-layer, fine-meshed acuraLINE® wire mesh. The delivery shall include elastic bearing rings to compensate mechanical noise and vibration. The frequency response shall be 50 Hz - 18 kHz. The open circuit voltage shall be 25 mV/Pa. The nominal impedance shall be 400 ohms. The lower part of the housing shall provide a 3-pin male XLR connector. The total length shall be 76 mm [3"], the shaft length shall be 67 mm [2.6"], the shaft diameter shall be 20 mm [0.8"] (M20 x 1.5 thread with fastening nut), the head diameter shall be 30 mm [1.2"], the length of the head shall be 9 mm [0.4"]. The net weight shall be 0.085 kg [0.2 lbs].

Manufacturer: beyerdynamic
Type: Classis BM 33 SE

Classis BM 32 / 33 / 34

ARCHITECT'S SPECIFICATIONS

The omnidirectional electret condenser boundary microphone shall be a high-quality installation microphone for tabletops or ceilings. The microphone shall be provided with an integrated amplifier and power supply. The SCUDIO® technology shall eliminate interferences of other wireless communication devices. The microphone shall be powered by phantom power between 8 V and 52 V. The filter in the microphone grille shall eliminate wind and pop noise. The fully metal housing shall provide a M20 x 1.5 thread with fastening nut and white metal microphone grille. The delivery shall include elastic bearing rings to compensate mechanical noise and vibration. The frequency response shall be 50 Hz - 18 kHz. The open circuit voltage shall be 25 mV/Pa. The nominal impedance shall be 400 ohms. The lower part of the housing shall provide a 3-pin male XLR connector. The total length shall be 76 mm [3"], the shaft length shall be 67 mm [2.6"], the shaft diameter shall be 20 mm [0.8"] (M20 x 1.5 thread with fastening nut), the head diameter shall be 30 mm [1.2"], the length of the head shall be 9 mm [0.4"]. The net weight shall be 0.085 kg [0.2 lbs].

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Type: Classis BM 33 W

The cardioid electret condenser boundary microphone shall be a high-quality installation microphone for tabletops or ceilings. The microphone shall be provided with an integrated amplifier and power supply with bass roll-off filter. The SCUDIO® technology shall eliminate interferences of other wireless communication devices. The microphone shall be powered by phantom power between 8 V and 52 V. The filter in the microphone grille shall eliminate wind and pop noise. The fully metal housing shall provide a M20 x 1.5 thread with fastening nut and black metal microphone grille. The delivery shall include elastic bearing rings to compensate mechanical noise and vibration. The frequency response shall be 50 Hz - 18 kHz. The open circuit voltage shall be 19 mV/Pa. The nominal impedance shall be 200 ohms. The lower part of the housing shall provide a 3-pin male XLR connector. The total length shall be 76 mm [3"], the shaft length shall be 67 mm [2.6"], the shaft diameter shall be 20 mm [0.8"] (M20 x 1.5 thread with fastening nut), the head diameter shall be 30 mm [1.2"], the length of the head shall be 9 mm [0.4"]. The net weight shall be 0.085 kg [0.2 lbs].

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Type: Classis BM 34 B

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Type: Classis BM 34 SE

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Type: Classis BM 34 W