

# Classis BM 32 / 33 / 34

Boundary Microphones



Classis BM 32 B



Classis BM 33 B



Classis BM 34 SE

## FEATURES

- 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.

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 acuraLine® 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.                                     | 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 acuraLine® 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 acuraLine® 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

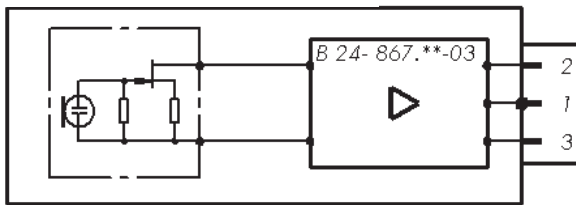
## TECHNICAL SPECIFICATIONS

|  | Classis BM 32           | Classis BM 33           | Classis BM 34           |
|--|-------------------------|-------------------------|-------------------------|
| Transducer type                                  | Condenser               | Condenser               | Condenser               |
| Frequency response                               | 50 - 18,000 Hz          | 50 - 20,000 Hz          | 50 - 20,000 Hz          |
| Polar pattern                                    | Half-cardioid           | Half-spherical          | Half-cardioid           |
| Open circuit voltage<br>at 1 kHz (0 dB = 1 V/Pa) | 19 mV/Pa = -34.4 dBV    | 15 mV/Pa = -36.5 dBV    | 16 mV/Pa = -35 dBV      |
| Nominal impedance                                | < 200 Ω                 | < 200 Ω                 | 200 Ω                   |
| Load impedance                                   | ≥ 1 kΩ                  | ≥ 1 kΩ                  | ≥ 1 kΩ                  |
| S/N ratio rel. to 1 Pa                           | 69 dB [A]               | 68 dB [A]               | 60 dB                   |
| Noise voltage                                    | 6.0 μV [A]              | 6.0 μV [A]              |                         |
| Max. sound pressure level                        | 107 dB [SPL @ 1% THD]   | 107 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] |

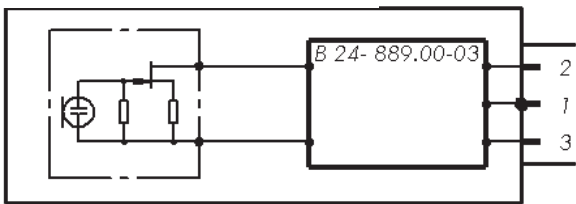
## WIRING DIAGRAMS

Positive pressure produces positive voltage on pin 2.

Classis BM 32/33/34



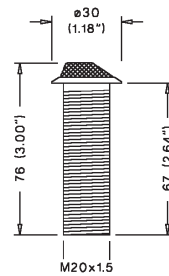
Classis BM 32 E



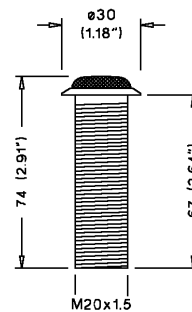
## DIMENSIONS

In millimetres (inches in brackets)

Classis BM 32



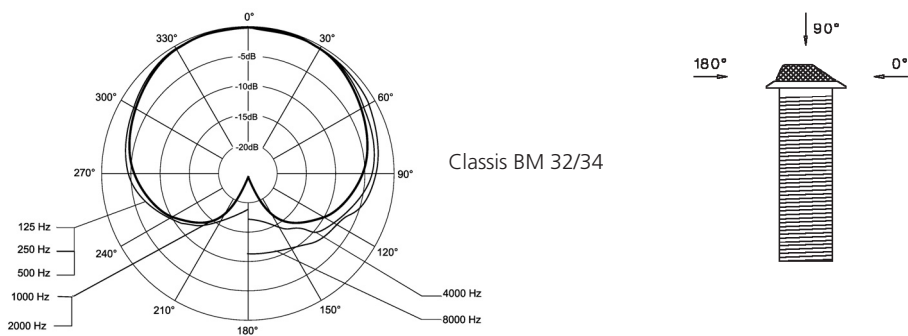
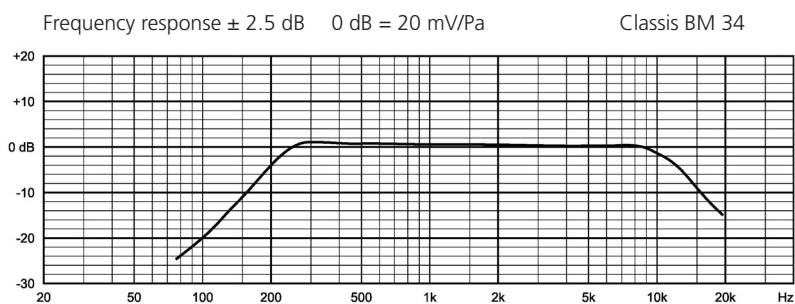
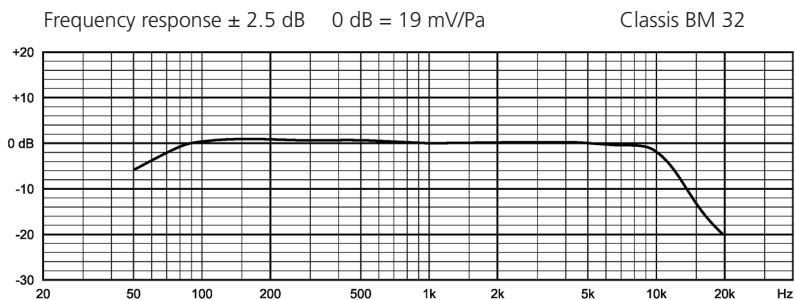
Classis BM 33



# Classis BM 32 / 33 / 34

## FREQUENCY RESPONSE & POLAR PATTERN

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



# Classis BM 32 / 33 / 34

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