

**beyerdynamic** 

PRODUKTINFORMATION

PRODUCT INFORMATION

INFORMATIONS DE PRODUIT

**Classis GM 302 - 306**

**Classis GM 314 - 315**

Schwanenhalsmikrofon

Gooseneck Microphone

Microphone sur col de cygne

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## **PRODUCT INFORMATION Classis GM 302 - 306 / Classis 314 - 315**

Thank you for selecting one of the GM 302 - 306 / GM 314 - 315 gooseneck microphones of the Classis series from beyerdynamic. Please take some time to read carefully through this information before using the product.

### **Gooseneck - Caution**

In order to avoid overstretching and premature wear and tear never bend the gooseneck more than 90°.

### **Applications**

This gooseneck microphone features a cardioid polar pattern, high gain before feedback and excellent intelligibility of speech.

It is suitable for use on lecterns, sound reinforcement applications, conferencing, high quality talkback and paging systems. All microphones feature the innovative Scudio™ technology, making the microphones absolutely insensitive to wireless communication devices such as mobile phones.

### **Installation and Connection**

For example an XLR flange socket is installed into the tabletop and connected to the amplifier input (pin 1: ground, pin 2: NF+, pin 3: NF-). As an alternative there are installation and shock-mounted holders available (refer to "Optional Accessories"). The microphone is connected and ready for operation.

The microphones need a phantom supply of 8 - 52 V for operation.

### **Versions with illuminated ring (Classis GM 314 - 315)**

In order to avoid interference, we recommend that the audio and the supply for the illuminated ring are individually screened. Connection: pin 4/LED-: cathode, pin 5/LED+: anode.

### **Maintenance**

For cleaning the gooseneck microphone use a soft damp cloth. If necessary you can use a mild cleansing agent (such as washing-up liquid). Do not use any solvent agents and make sure that no water enters the transducer element.

### **Service**

In the unlikely event of equipment failure, the microphone should be returned to your beyerdynamic dealer. Dismantling the microphone yourself will invalidate the guarantee.

## Versions

Model	Description	Order #
Classis GM 302	XLR plug, 200 mm [8"]	489.557
Classis GM 303	XLR plug, 300 mm [12"]	722.383
Classis GM 303 S	same as above, but with switch	489.549
Classis GM 304	XLR plug, 400 mm [16"]	722.391
Classis GM 304 S	same as above, but with switch	489.301
Classis GM 305	XLR plug, 500 mm [20"]	722.405
Classis GM 305 S	same as above, but with switch	722.413
Classis GM 306	XLR plug, 600 mm [24"]	724.246

Model	Description	Order #
Classis GM 305 T	5/8" internal thread / adapter to 3/8" and M18x0.75 external thread, length 500 mm 500 mm [20"], connecting cable 2.5 m [8.2 ft] with 4-pin female mini XLR connector, incl. CVE 305.18 pre-amp, ZSH 305 small base plate, wind shield	722.421
Classis GM 314	XLR plug, 400 mm [16"], LED ring	722.448
Classis GM 314 S	same as above, but with switch	723.231
Classis GM 314 E	XLR plug, 400 mm [16"], LED ring, without amp, for Installation with MCS 563 L, MCS 553 L, MCS-D 3643, inkl. wind shield.	489.581

Model	Description	Order #
Classis GM 315	XLR plug, 500 mm [20"], LED ring	722.456
Classis GM 315 S	same as above, but with switch	722.464
Classis GM 314 E	XLR plug, 500 mm [20"], LED ring, without amp, for Installation with MCS 563 L, MCS 553 L, MCS-D 3643, inkl. wind shield.	489.565

## Supplied Accessories

Model	Description	Order #
WS 302 B	Wind shield for Classis GM 302 - 3x5 (S), black	722.782

## Optional Accessories

ZSA 305	Mounting adapter for the use of Classis GM 305 T with ZSH 20 . . . . .	723.037
ZSH 23 FT	Base plate with 3-pin XLR-socket and cable . . . . .	464.902
ZSH 25 FT	Base plate with 5-pin XLR-socket and cable . . . . .	464.910
ZSH 20	Shock-mounted holder for desktop installation . . . . .	454.559

## Technical Specifications

### Classis GM 302 - 306 / GM 314 - 315

Transducer type . . . . .	Electret condenser
Operating principle . . . . .	Pressure gradient

Polar pattern . . . . .	Cardioid
Frequency response . . . . .	50 - 19,000 Hz
Open circuit voltage . . . . .	17 mV/Pa
Nominal impedance . . . . .	< 200 $\Omega$
Load impedance . . . . .	$\geq 1$ k $\Omega$
Signal to noise ratio / noise voltage . . .	69 dB [A] / 6.0 $\mu$ V [A]
Max. SPL . . . . .	107 dB [SPL @ 1% THD]
Equivalent SPL . . . . .	25 dB [A]
Wiring GM 30x/30x S/31x S . . . . .	balanced with 3-pin XLR-plug
Wiring GM 31x . . . . .	5-pin XLR-plug
Wiring GM 305 T . . . . .	balanced, 2.5 m [8.2 ft.] long connecting cable with 4-pin female mini XLR

connector for CVE 305.18 pre-amp with 3-pin XLR connector	
Supply voltage GM 30x/31x . . . . .	Phantom power 8 - 52 V
Supply voltage GM 30x S/31x S . . . . .	Phantom power 8 - 52 V
Current consumption GM 30x/31x . . . . .	2 mA
Current consumption GM 30x S . . . . .	6 mA
Current consumption GM 31x S . . . . .	9 mA
Current consumption LED ring with internal resistor of 500 $\Omega$ at 5 V supply voltage . . . . .	6 mA
at 12 V supply voltage . . . . .	20 mA

Dimensions	
Length . . . . .	depending on the version
Head diameter . . . . .	13.6 mm [0.5"]
Gooseneck diameter. . . . .	6 mm [0.2"]
Shaft diameter . . . . .	20 mm [0.8"]
Weight. . . . .	depending on the version

**Classis GM 314 - 315 E**

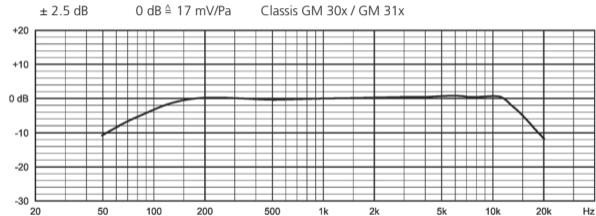
Transducer type . . . . .	Electret condenser
Operating principle. . . . .	Pressure gradient
Polar pattern . . . . .	Cardioid
Frequency response . . . . .	50 - 19,000 Hz
Open circuit voltage . . . . .	17 mV/Pa*
Signal to noise ratio / noise voltage. . .	69 dB [A] / 6,0 µV [A]*
Max. SPL . . . . .	107 dB [SPL @ 1%

THD]*	
Equivalent SPL . . . . .	25 dB [A]*
Wiring GM 31x . . . . .	5-pin XLR connector
Current consumption LED ring with internal series resistor of 500 Ω	
at 5 V supply voltage . . . . .	6 mA
at 12 V supply voltage . . . . .	20 mA
Electrical parameters of the capsule with 2-pole connection without the CVE 305.18 power supply unit:	
Supply voltage . . . . .	1.5 - 10 V
Series resistor (recommended) . . . . .	2.2 kohms
Sensitivity . . . . .	approx. -47 dBV/Pa
Dimensions	
Length . . . . .	depending on the version

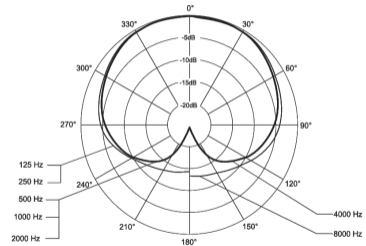
Head diameter . . . . .	13.6 mm [0.5"]
Gooseneck diameter. . . . .	6 mm [0.2"]
Shaft diameter . . . . .	20 mm [0.8"]
Weight. . . . .	depending on the version

\*measured with CVE 305.18 power supply

## Frequenzkurve / Frequency Response Curve / Courbe de fréquence

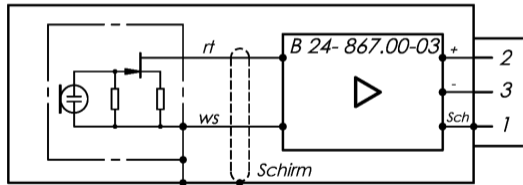


## Richtdiagramm / Polar Pattern / Diagramme de directivité



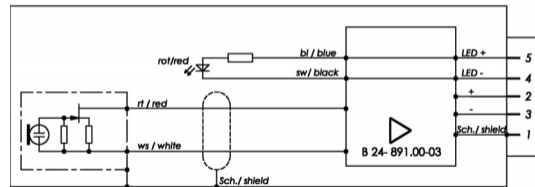
## Schaltbilder / Wiring Diagrams / Diagrammes de câblage

Classis GM 30x



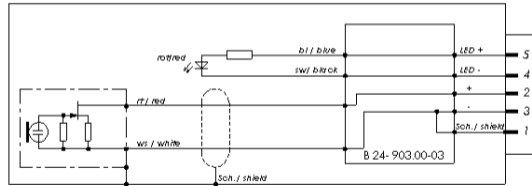
*rt = rot / red / rouge*  
*ws = weiß / white / blanc*  
*Sch = Schirm / shield / écran*

Classis GM 31x

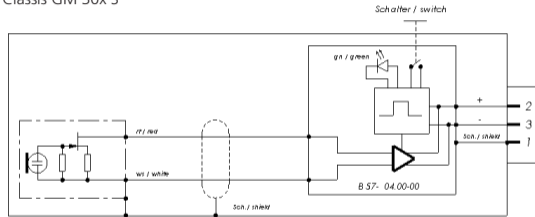




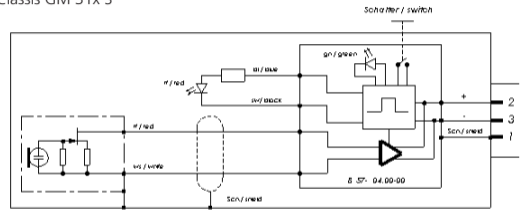
Classis GM 314 E - 315 E



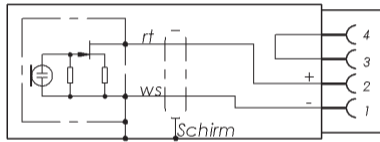
Classis GM 30x S



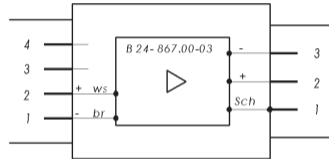
Classis GM 31x S



Classis GM 305 T

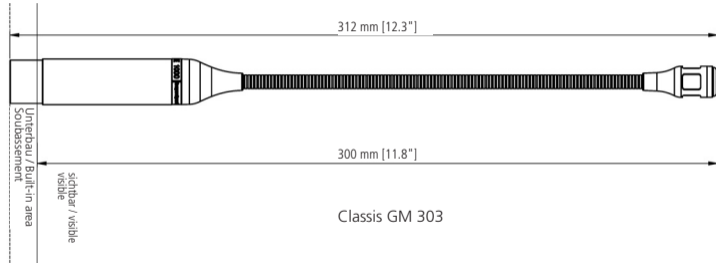
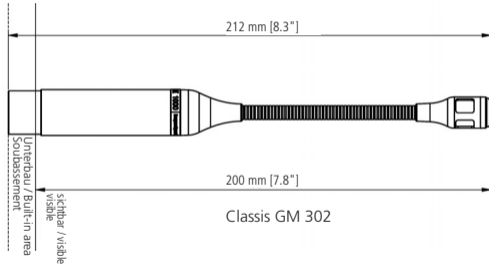


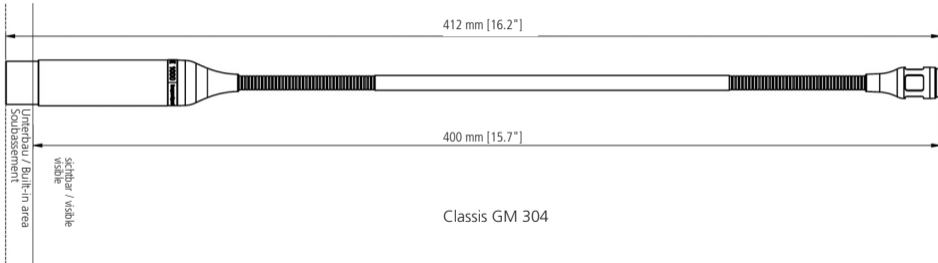
CVE 305.18



*br = braun / brown / brun*  
*rt = rot / red / rouge*  
*ws = weiß / white / blanc*  
*Sch = Schirm / shield / écran*

## Abmessungen / Dimensions / Dimensions

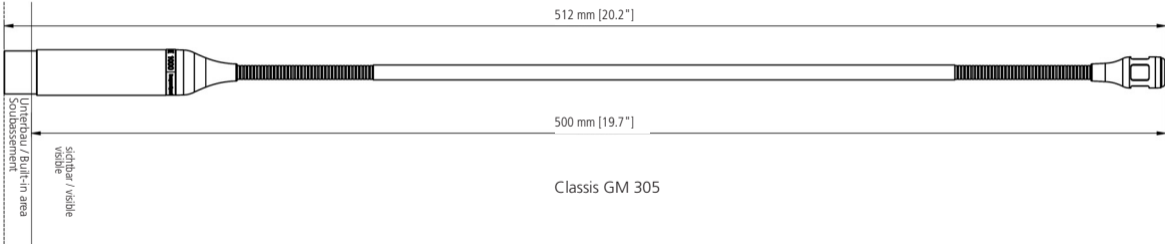




512 mm [20.2"]

500 mm [19.7"]

Classis GM 305



sichtbar / visible  
visible

Unterbau / Built-in area  
Soubassement



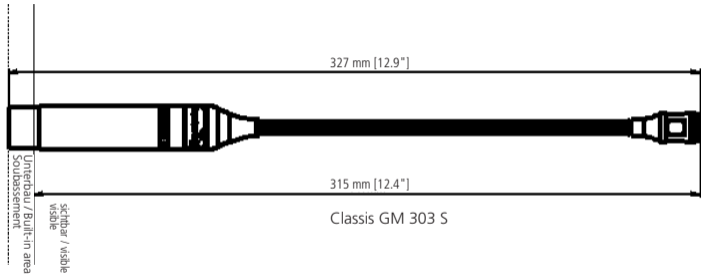
612 mm [24.1"]

600 mm [23.6"]

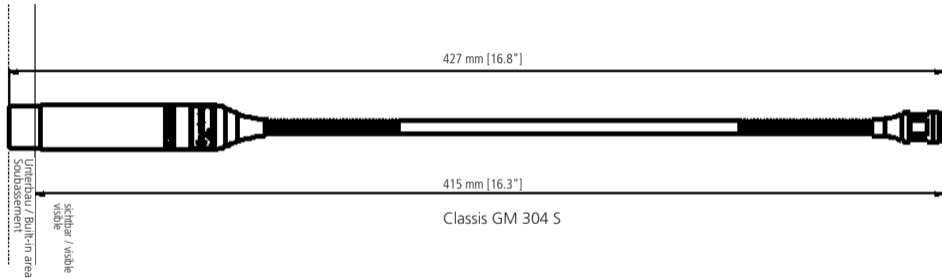
Classis GM 306

Unterbau / Built-in area  
Soubassement

sichtbar / visible  
visible



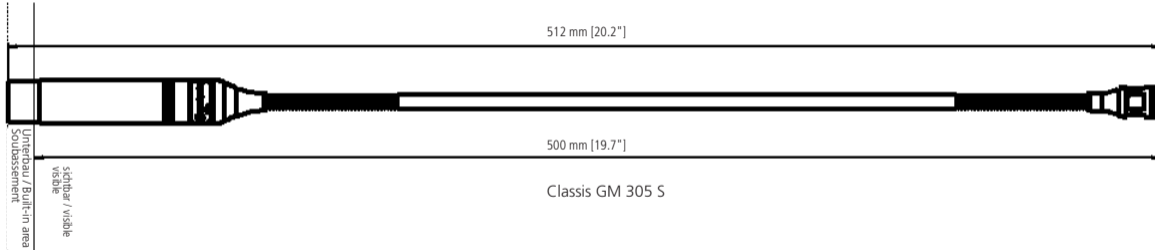




512 mm [20.2"]

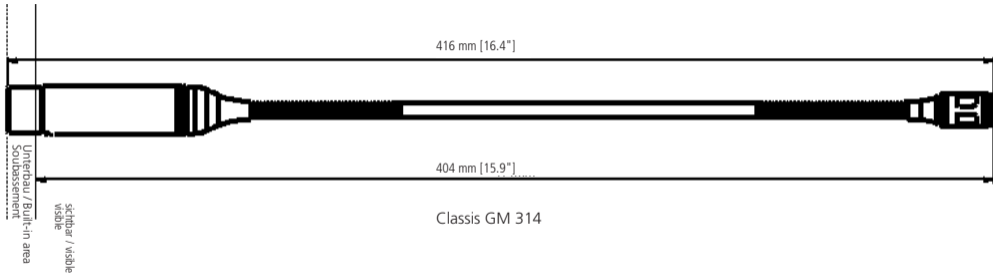
500 mm [19.7"]

Classis GM 305 S



Unterbau / Built-in area  
Soubassement

sichtbar / visible  
visible





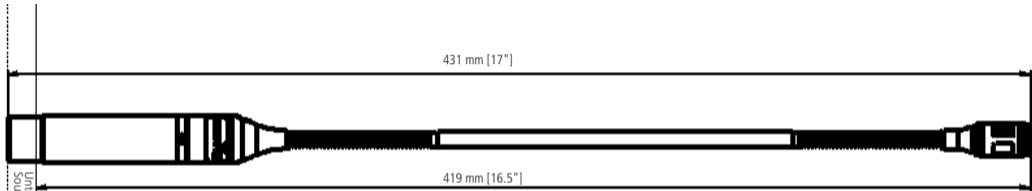
516 mm [20.3"]

504 mm [19.8"]

Classis GM 315

Unterbau / Built-in area  
Soubassement

sichtbar / visible  
visible



Unterbau / Built-in area  
Soubassement

sichtbar / visible  
visible

431 mm [17"]

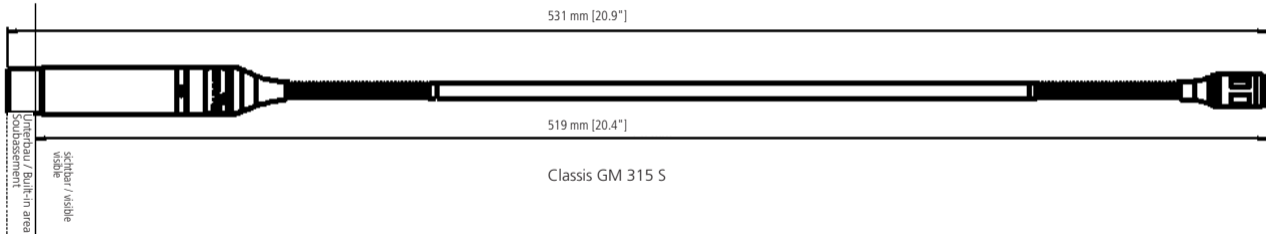
419 mm [16.5"]

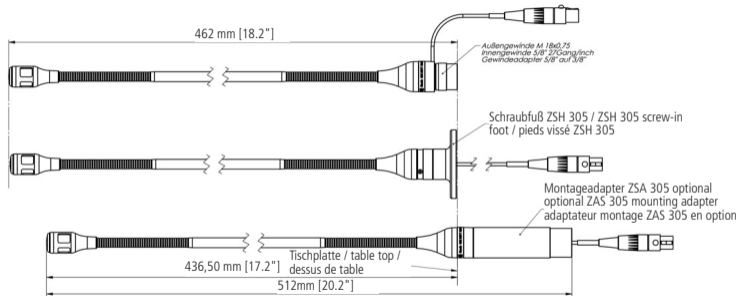
Classis GM 314 S

531 mm [20.9"]

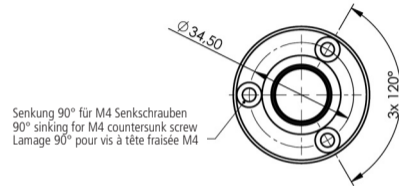
519 mm [20.4"]

Classis GM 315 S





ZSH 305 – Schraubfuß / screw-in foot / pieds vissé









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DEF 8/BA GM 302 - 3x5 (08.13)/620.688 • Änderungen und Irrtümer vorbehalten

Subject to change without notice • Sous réserve de modifications

