



Public Address - Voice Alarm
Audio Distribution over IP
Commercial Audio
Intelligent Acoustic Solutions
Intercommunication
Loudspeakers



CATALOGUE 2013

Ceiling Speakers-I

DELIVERING YOUR MESSAGE



Round Metal

RCS4/T

RCS4FT/EN

RCS4FT/ENC



Round Metal

RGS5/T

RGS5FT/EN
RGS5FT/ENC



RGS6/T

RGS6FT/EN
RGS6FT/ENC



RCS5/T Round Metal

RCS5FT/EN
RCS5FT/ENC



RCS5/TCOAX

RCS5FTCX/EN
RCS5FTCX/ENC



RCS Series

The RCS range of ceiling loudspeakers has been carefully designed to satisfy the most critical eye. These units are stylish yet unobtrusive and can be supplied with or without fire domes. Made from a pressed steel epoxy coated chassis incorporating a twin cone driver, which has a wider frequency range than the standard single cone, this makes the RCS range more suitable for use in applications where background music is a primary requirement. In compliance with BS5839 part 8, the "FTS" versions incorporate a ceramic terminal and thermal fuse and are, therefore, suitable for use in voice alarm applications.

RNS Series

The classic RGS product line offers highly efficient speakers made of metal, available in two sizes. The proven mounting system with spring clamps and cropped leg springs increases clamp force and shortens tension distance. This allows a quick and easy mounting. The high-quality broadband driver and transformer are attached to the front grille attached to the assembly ring by a bayonet lock.

PCL Series

The PCL range of ceiling loudspeakers are manufactured in high grade white ABS plastic compound, UL, VO yellow card approved, with aluminium, epoxy powder coated grille. This Combination of materials offers a cost effective alternative to our RCS range, whilst still maintaining its stylish design but with the added benefit of being weather resistant.

CCS Series

The PCL range of ceiling loudspeakers are manufactured in high grade white ABS plastic compound, UL, VO yellow card approved, with aluminium, epoxy powder coated grille. This Combination of materials offers a cost effective alternative to our RCS range, whilst still maintaining its stylish design but with the added benefit of being weather resistant.

Supplied with a dual cone drive unit, giving a wider frequency range than the standard single cone, making the PCL range more suitable for use in applications where background music is a primary requirement.

Our Pro-Sound range has been designed with technical excellence and quality in mind and this is demonstrated in their presentation, feel and high end audio performance. This range was 2 years in the making, ensuring that the finished product is as near perfect as we could get it. The result is fantastic professional audio quality, flush mount ceiling speakers that will impress even the most critical of listeners.

Supplied as 16 ohm low impedance units for applications that require the very best in audio quality such as home audio, audio visual, retail music etc. or as 100v line units for use with commercial audio applications looking for the very best in audio reproduction such as background music, theatres, schools, hotels etc.

These ceiling speakers are packaged in a sealed, ported enclosure complete with a removable grill with no visible fixings and fitted with a rotary tapping selector located behind its removable grill providing easy adjustment of the speaker's output.

Ceiling Speakers-I

RCS6/T

EN54
24

RCS6FT/EN
RCS6FT/ENC

RCS6/TCOAX

EN54
24

RCS6FTCX/EN
RCS6FTCX/ENC

Round Metal

RCS8/T

RCS8/TCOAX

EN54
24

RCS8FTCX/EN
RCS8FTCX/ENC

Round Metal



Round Metal

RNS5/T
RNS5/TC

Round Metal

RNS6/T
RNS6/TC



Round Plastic PCL6/T



Round bass reflex
CCS4/T
CCS6/T

Ceiling Speakers-I

Round Metal Ceiling Loudspeakers

RCS Series 4

Round Metal Ceiling Loudspeakers

RGS Series 30

Round Metal Ceiling Loudspeakers

RLS Series 38

Round Plastic Ceiling Loudspeakers

PCL Series 42

Round Bass Reflex Ceiling Loudspeakers

CCS Series 44

RCS4/T

Round Metal Ceiling Loudspeakers

ELECTRICAL

Rated power, Watts:	4
Tappings 100 volt line, Watts:	4/2/1/0.5/0.25
Transformer Impedance, Ohms 100V:	2.5k/5k/10k/20k/40k
Tappings 70.7 volt line, Watts:	2/1/0.5/0.25/0.13
Driver impedance, Ohms:	8
Effective Frequency Range, Hz (BSEN60268-5):	130 - 18K
S.P.L. @ 1m, 1watt, dB, Test Signal Bandwidth 100Hz-10kHz:	84
S.P.L. @ Full power, Octave Bandwidth dB:	90
Acoustic Power (dB-PWL@1 Watt) 1k/2k Hz:	81/83
Dispersion at 1k/2kHz, Degrees:	180/180
Directivity Axial Q factor, 1k/2k Hz:	1.90/2.20

ENVIRONMENTAL

IP-Rating:	21
Max/Min Amb Temp:	55°/-10°c
Relative Humidity:	≤95%

MECHANICAL

Dimensions, Height, Ømm:	93, Ø132
Net Weight, Kgs:	0.72
Colour (Unless Specified):	RAL9016
Material:	Steel
Mounting:	Fixing Springs x 4 (stainless steel)
Cut-out, mm:	Ø119



RCS4/T

The RCS range of ceiling loudspeakers has been carefully designed to satisfy the most critical eye. These units are stylish yet unobtrusive and can be supplied with or without fire domes (FT & FTS versions). Made from a pressed steel epoxy coated chassis incorporating a twin cone driver, which has a wider frequency range than the standard single cone, this makes the RCS range more suitable for use in applications where background music is a primary requirement.

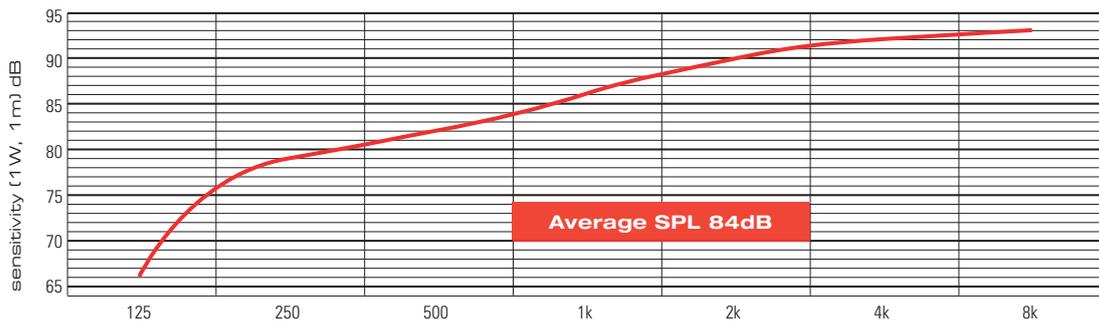
The RCS 4/T, miniature ceiling loudspeaker is an addition to our highly successful RCS range. Employing a 4" high quality, plastiflex treated dual cone, it is ideally suited for areas where space is a premium. Supplied with a 4 Watt line transformer, this unit is suitable for general public address requirements. The plastiflex treated cone means this loudspeaker can also be used in humid atmospheres such as bathrooms and clean room areas.

Ease of installation is a key feature of these units, incorporating a user friendly concealed spring mounting arrangement that enables quick and easy access to the speaker once it has been installed.

RCS Series

RCS4/T

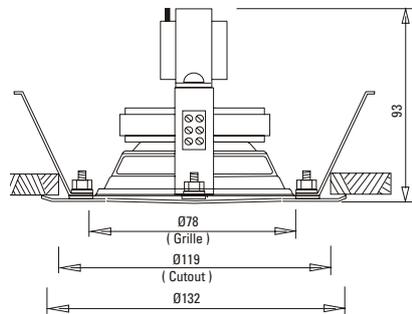
Speech octave band sensitivity



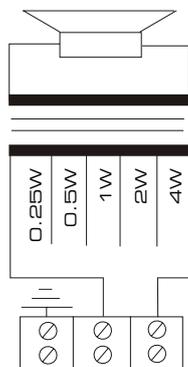
Effective Frequency Range - 130 Hz - 18 kHz

unit : mm

Side view



Circuit diagram



Public Address - Voice Alarm

Audio Distribution over IP

Commercial Audio

Intelligent Acoustic Solutions

Intercommunication

Loudspeakers



RCS4FT/EN - RCS4FT/ENC

Round Metal Ceiling Loudspeakers

ELECTRICAL

Rated power, Watts:	4
Tappings 100 volt line, Watts:	4/2/1/0.5/0.25
Transformer Impedance, Ohms 100V:	2.5k/5k/10k/20k/40k
Tappings 70.7 volt line, Watts:	2/1/0.5/0.25/0.13
Driver impedance, Ohms:	8
Effective Frequency Range, Hz (BSEN60268-5):	200 - 18K
S.P.L. @ 4m, 1Watt, dB, 1/3 Octave, 1kHz:	60
S.P.L. @ 1m, 1Watt, dB, Test Signal Bandwidth 100Hz-10kHz:	83
S.P.L. @ 4m, Full power, dB, 1/3 Octave 1kHz:	66
S.P.L. @ 1m, Full power, Test Signal Bandwidth 100Hz-10kHz:	89
Dispersion at 1k/2kHz, Degrees:	180/180

ENVIRONMENTAL

IP-Rating:	21
Max/Min Amb Temp:	55°/-10°C
Relative Humidity:	≤95%

MECHANICAL

Dimensions, mm:	Height 101, Ø132
Net Weight, Kgs:	0.92
Colour (Unless Specified):	RAL9016
Material:	Steel
Mounting:	Fixing Springs x 4 (stainless steel)
Cut-out, mm:	Ø119

With Transformer - 100 V / 70 V Line						
	White wire plus tapping					Black
100 V	0.25 W	0.75 W	1 W	2 W	4 W	COM
70 V	0.13 W	0.25 W	0.5 W	1W	2 W	COM
IMP. Ω	40 K	20 K	10 K	5 K	2.5 K	

Horizontal coverage angles Vertical angles

		horizontal	vertical
1 Oct. Pink noise	500 Hz	180°	180°
1 Oct. Pink noise	1 kHz	180°	180°
1 Oct. Pink noise	2 kHz	180°	180°
1 Oct. Pink noise	4 kHz	120°	120°



RCS4FT/EN - RCS4FT/ENC

The RCS range of ceiling loudspeakers has been carefully designed to satisfy the most critical eye. These units are stylish yet unobtrusive and can be supplied with or without fire domes (FT & FTS versions). Made from a pressed steel epoxy coated chassis incorporating a twin cone driver, which has a wider frequency range than the standard single cone, this makes the RCS range more suitable for use in applications where background music is a primary requirement.

The RCS 4FT/EN, miniature ceiling loudspeaker is an addition to our highly successful RCS range. Employing a 4" high quality, plastiflex treated dual cone, it is ideally suited for areas where space is a premium. Supplied with a 4 Watt line transformer, this unit is suitable for general public address requirements. The plastiflex treated cone means this loudspeaker can also be used in humid atmospheres such as bathrooms and clean room areas. In compliance with BS5839 part8, the RCS 4FT/EN incorporates a steel fire dome, ceramic terminal, thermal fuse and is, therefore, suitable for voice alarm applications.

Ease of installation is a key feature of these units, incorporating a user friendly concealed spring mounting arrangement that enables quick and easy access to the speaker once it has been installed.

RCS Series

RCS4FT/EN
RCS4FT/ENC

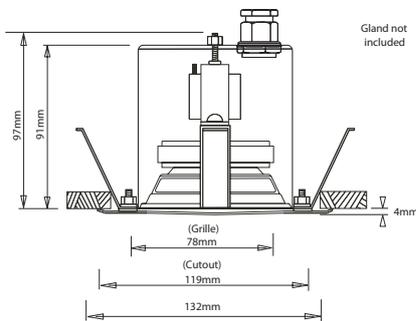
Speech octave band sensitivity



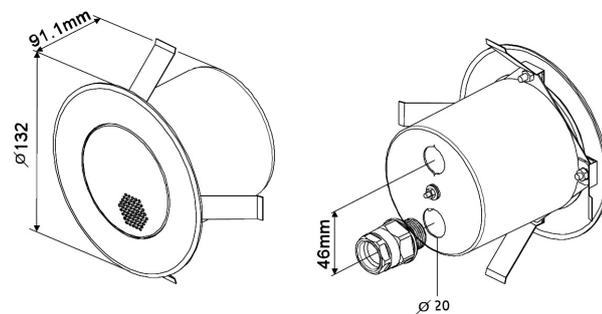
Effective Frequency Range - 200 Hz - 18 kHz

unit : mm

Side view

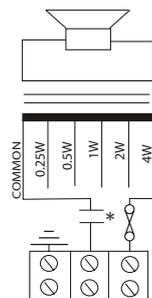


Perspective view



Circuit diagram

* unit fitted with Capacitor



EN54-24-2008
0359-CPD-0137
TYPE A

RCS5/T

Round Metal Ceiling Loudspeakers

ELECTRICAL

Rated power, Watts:	6
Tappings 100 volt line, Watts:	6/3/1.5/0.75/0.25
Transformer Impedance, Ohms, 100V:1.67k/3.33k/6.66k/13.3k/39.9k	
Tappings 70.7 volt line, Watts:	3/1.5/0.75/0.375/0.125
Driver impedance, Ohms:	8
Effective frequency range, Hz (BSEN60268-5):	70-17.5K
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100 Hz-10 kHz:	94
S.P.L. @ Full power Octave Bandwidth, dB:	102
Acoustic Power (dB-PWL@1 watt) 1k/2kHz, dB:	91/92
Dispersion at 1k/2k Hz, Degrees :	180/180
Directivity Axial Q factor, 1k/2kHz:	2.3/4.6

ENVIRONMENTAL

IP-Rating:	21
Max/Min Amb Temp:	55°/-10°C
Relative Humidity:	≤95%

MECHANICAL

Dimensions, mm:	Height 110, Ø189
Net Weight, Kgs:	1.3
Colour (Unless Specified):	RAL9016
Material:	Steel
Mounting:	Torsion springs
Cut-out, mm:	Ø160



RCS5/T

The RCS range of ceiling loudspeakers has been carefully designed to satisfy the most critical eye. These units are stylish yet unobtrusive and can be supplied with or without fire domes (FT & FTS versions).

Made from a pressed steel epoxy coated chassis incorporating a twin cone driver, which has a wider frequency range than the standard single cone, this makes the RCS range more suitable for use in applications where background music is a primary requirement.

Ease of installation is a key feature of these units, incorporating a user friendly concealed spring mounting arrangement that enables quick and easy access to the speaker once it has been installed.

RCS Series

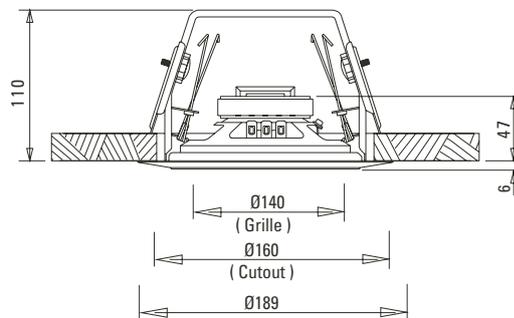
RCS5/T

Speech octave band sensitivity

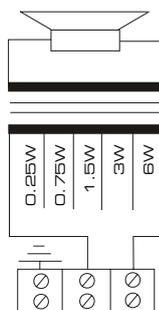


Effective Frequency Range - 70 Hz - 17.5 kHz

unit : mm Side view



Circuit diagram



RCS5FT/EN - RCS5FT/ENC

Round Metal Ceiling Loudspeakers

ELECTRICAL

Rated power, Watts:	6
Tappings 100 volt line, Watts:	6/3/1.5/0.75/0.25
Transformer Impedance, Ohms, 100V:	1.67k/3.33k/6.66k/13.3k/39.9k
Tappings 70.7 volt line, Watts:	3/1.5/0.75/0.375/0.125
Driver impedance, Ohms:	8
Effective frequency range, Hz (BSEN60268-5):	150-18K
S.P.L. @ 4m, 1 watt, dB, 1/3 Octave, 1KHz:	65
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100 Hz-10 kHz:	95
S.P.L. @ 4m, Full power, dB, 1/3 Octave 1KHz:	72
S.P.L. @ 1m, Full power, Test signal bandwith 100KHz-10kHz:	102
Dispersion at 1k/2k Hz, Degrees :	180/120

ENVIRONMENTAL

IP-Rating:	21
Max/Min Amb Temp:	55°/-10°C
Relative Humidity:	≤95%

MECHANICAL

Dimensions, mm:	Height 116, Ø189
Net Weight, Kgs:	1.3
Colour (Unless Specified):	RAL9016
Material:	Steel
Mounting:	Torsion Springs
Cut-out, mm:	Ø164

With Transformer - 100 V / 70 V Line

	White wire plus tapping					Black	
	100 V	0.25 W	0.75 W	1.5 W	3 W	6 W	COM
70 V	0.125 W	0.375 W	0.75 W	1.5 W	3 W	COM	
IMP. Ω	39.9 K	13.3 K	6.66 K	3.33 K	1.67 K		

Horizontal coverage angles Vertical angles

		horizontal	vertical
1 Oct. Pink noise	500 Hz	180°	180°
1 Oct. Pink noise	1 kHz	180°	180°
1 Oct. Pink noise	2 kHz	120°	120°
1 Oct. Pink noise	4 kHz	80°	80°



RCS5FT/EN - RCS5FT/ENC

The RCS range of ceiling loudspeakers has been carefully designed to satisfy the most critical eye. These units are stylish yet unobtrusive and can be supplied with or without fire domes (FT & FTS versions).

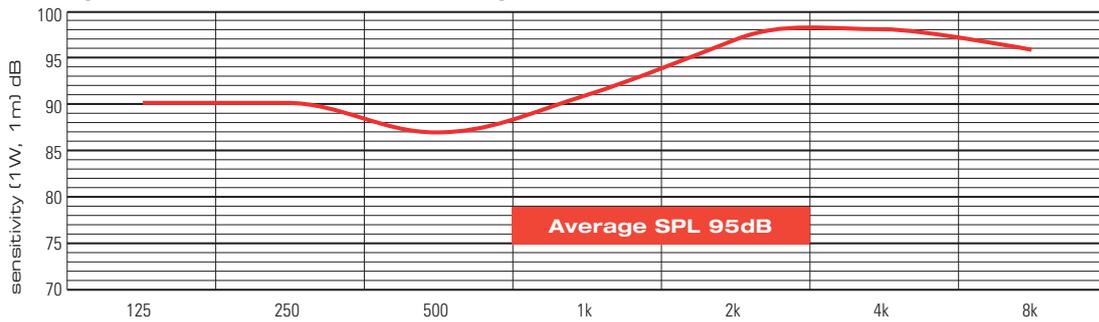
Made from a pressed steel epoxy coated chassis incorporating a twin cone driver, which has a wider frequency range than the standard single cone, this makes the RCS range more suitable for use in applications where background music is a primary requirement.

Ease of installation is a key feature of these units, incorporating a user friendly concealed spring mounting arrangement that enables quick and easy access to the speaker once it has been installed.

RCS Series

RCS5FT/EN
RCS5FT/ENC

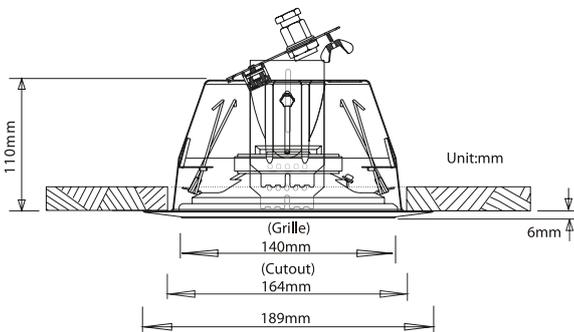
Speech octave band sensitivity



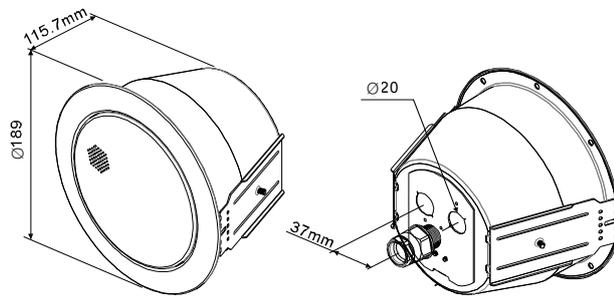
Effective Frequency Range - 150 Hz - 18 kHz

unit : mm

Side view

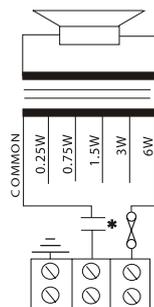


Perspective view



Circuit diagram

* unit fitted with Capacitor



EN54-24-2008
0359-CPD-0137
TYPE A

Public Address - Voice Alarm

Audio Distribution over IP

Commercial Audio

Intelligent Acoustic Solutions

Intercommunication

Loudspeakers



RCS5T/COAX

Round Metal Ceiling Loudspeakers

ELECTRICAL

Rated power, Watts:	10
Tappings 100 volt line, Watts:	10/5/2.5/1.25
Transformer Impedance, Ohms, 100V:	1k/2k/4k/8k
Tappings 70.7 volt line, Watts:	5/2.5/1.25/0.625
Driver impedance, Ohms:	8
Effective frequency range, Hz (BSEN60268-5):	70-18.5K
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100 Hz-10 kHz:	91
S.P.L. @ Full power Octave Bandwidth, dB:	101
Acoustic Power (dB-PWL@1 watt) 1k/2kHz, dB:	88/88
Dispersion at 1k/2k Hz, Degrees :	180/180
Directivity Axial Q factor, 1k/2kHz:	2.1/4.0

ENVIRONMENTAL

IP-Rating:	21
Max/Min Amb Temp:	55°/-10°C
Relative Humidity:	≤95%

MECHANICAL

Dimensions, mm:	Height 116, Ø189
Net Weight, Kgs:	1.2
Colour (Unless Specified):	RAL9016
Material:	Steel
Mounting:	Torsion springs
Cut-out, mm:	Ø164



RCS5T/COAX

The RCS range of ceiling loudspeakers has been carefully designed to satisfy the most critical eye. These units are stylish yet unobtrusive and can be supplied with or without fire domes (FT & FTS versions).

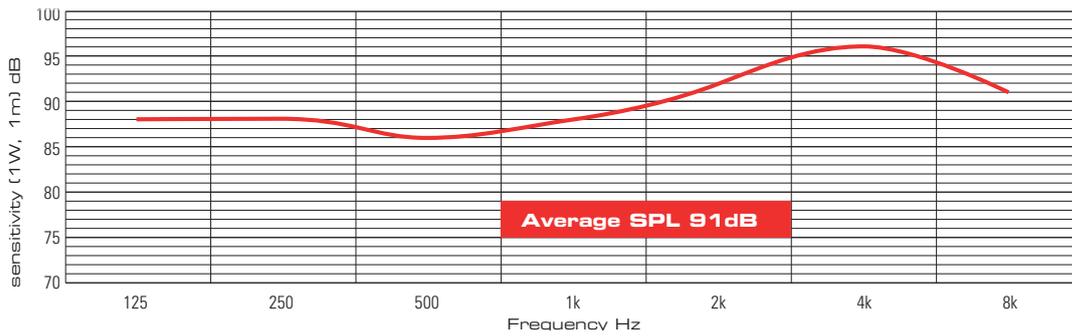
Made from a pressed steel epoxy coated chassis incorporating a twin cone driver, which has a wider frequency range than the standard single cone, this makes the RCS range more suitable for use in applications where background music is a primary requirement.

Ease of installation is a key feature of these units, incorporating a user friendly concealed spring mounting arrangement that enables quick and easy access to the speaker once it has been installed.

RCS Series

RCS5T/COAX

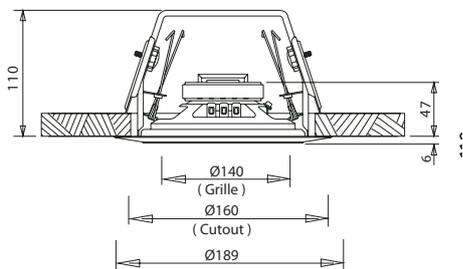
Speech octave band sensitivity



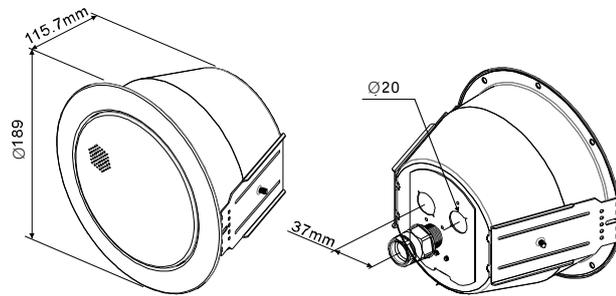
Effective Frequency Range - 70 Hz - 18.5 kHz

unit : mm

Side view

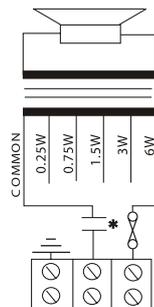


Perspective view



Circuit diagram

* unit fitted with Capacitor



Public Address - Voice Alarm

Audio Distribution over IP

Commercial Audio

Intelligent Acoustic Solutions

Intercommunication

Loudspeakers



RCS5FTCX/EN - RCS5FTCX/ENC

Round Metal Ceiling Loudspeakers

ELECTRICAL

Rated power, Watts:	10
Tappings 100 volt line, Watts:	10/5/2.5/1.25
Transformer Impedance, Ohms, 100V:	1k/2k/4k/8k
Tappings 70.7 volt line, Watts:	5/2.5/1.25/0.625
Driver impedance, Ohms:	8
Effective frequency range, Hz (BSEN60268-5):	130 - 18.5K
S.P.L. @ 4m, 1watt, dB, 1/3 Octave, 1kHz:	63
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100 Hz-10 kHz:	91
S.P.L. @ 4m, Full power, dB, 1/3 Octave 1kHz:	73
S.P.L. @ 1m, Full power, Test Signal Bandwidth 100Hz-10kHz:	101
Dispersion at 1k/2k Hz, Degrees:	180/140

ENVIRONMENTAL

IP-Rating:	21
Max/Min Amb Temp:	55°/-10°C
Relative Humidity:	≤95%

MECHANICAL

Dimensions, mm:	Height 116, Ø189
Net Weight, Kgs:	1.5
Colour (Unless Specified):	RAL9016
Material:	Steel
Mounting:	Torsion springs
Cut-out, mm:	Ø164

With Transformer - 100 V / 70 V Line

	White wire plus tapping				Black
	100 V	70 V	5 W	10 W	
100 V	1.25 W	2.5 W	5 W	10 W	COM
70 V	0.625 W	1.25 W	2.5 W	5 W	COM
IMP.(Ω)	8K	4 K	2K	1 K	

Horizontal coverage angles Vertical angles

		horizontal	vertical
1 Oct. Pink noise	500 Hz	180°	180°
1 Oct. Pink noise	1 kHz	180°	180°
1 Oct. Pink noise	2 kHz	140°	140°
1 Oct. Pink noise	4 kHz	60°	60°



RCS5FTCX/EN - RCS5FTCX/ENC

The RCS range of ceiling loudspeakers has been carefully designed to satisfy the most critical eye. These units are stylish yet unobtrusive and can be supplied with or without fire domes (FT & FTS versions).

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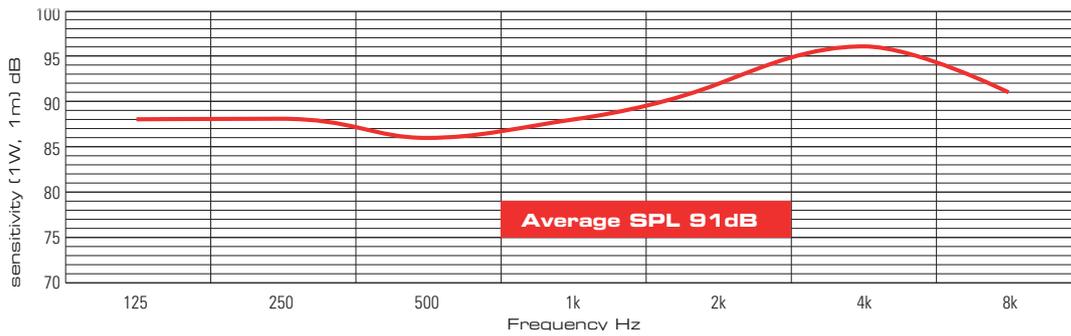
Ease of installation is a key feature of these units, incorporating a user friendly concealed spring mounting arrangement that enables quick and easy access to the speaker once it has been installed.

The RCS5FTCX/ENC is supplied with capacitor for DC line monitoring.

RCS Series

RCS5FTCX/EN
RCS5FTCX/ENC

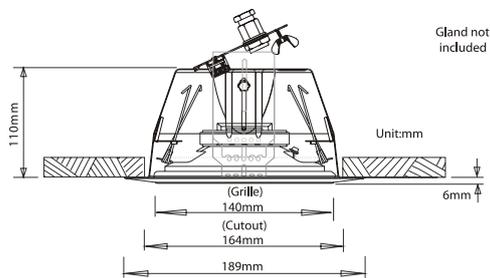
Speech octave band sensitivity



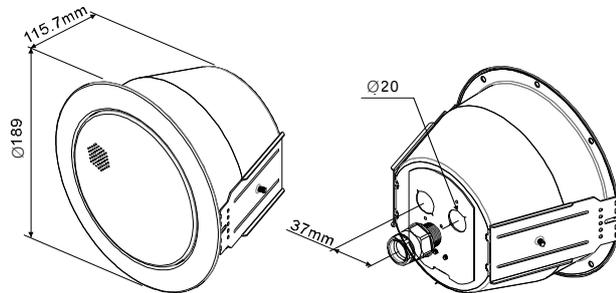
Effective Frequency Range - 130 Hz - 18.5 kHz

unit : mm

Side view

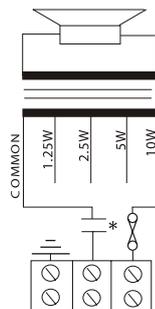


Perspective view



Circuit diagram

* unit fitted with Capacitor



EN54-24-2008
0359-CPD-0137
TYPE A

RCS6/T

Round Metal Ceiling Loudspeakers

ELECTRICAL

Rated power, Watts:	6
Tappings 100 volt line, Watts:	6/3/1.5/0.75/0.25
Transformer Impedance, Ohms, 100V:	1.67k/3.33k/6.66k/13.3k/39.9k
Tappings 70.7 volt line, Watts:	3/1.5/0.75/0.375/0.125
Driver impedance, Ohms:	8
Effective frequency range, Hz (BSEN60268-5):	65-18.5K
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100 Hz-10 kHz:	95
S.P.L. @ Full power Octave Bandwidth, dB:	103
Acoustic Power (dB-PWL@1 watt) 1k/2kHz, dB:	90/92
Dispersion at 1k/2k Hz, Degrees :	180/110
Directivity Axial Q factor, 1k/2kHz:	2.3/6.1

ENVIRONMENTAL

IP-Rating:	21
Max/Min Amb Temp:	55°/-10°C
Relative Humidity:	≤95%

MECHANICAL

Dimensions, mm:	Height 116, Ø239
Net Weight, Kgs:	1.2
Colour (Unless Specified):	RAL9016
Material:	Steel
Mounting:	Torsion springs
Cut-out, mm:	Ø190



RCS6/T

The RCS range of ceiling loudspeakers has been carefully designed to satisfy the most critical eye. These units are stylish yet unobtrusive and can be supplied with or without fire domes (FT & FTS versions).

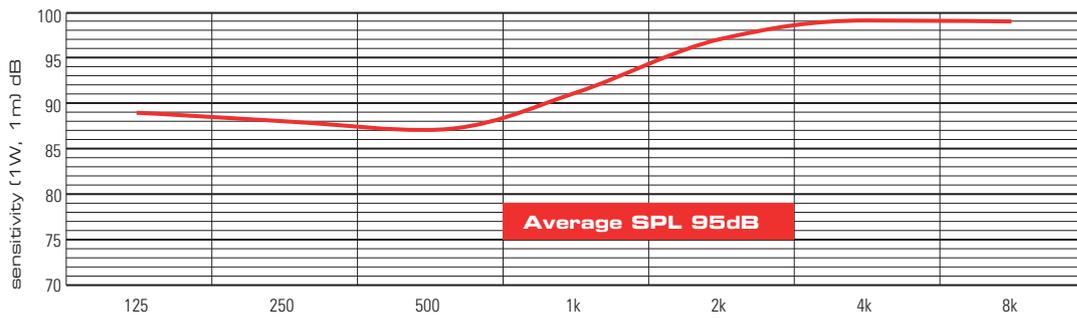
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RCS Series

RCS6/T

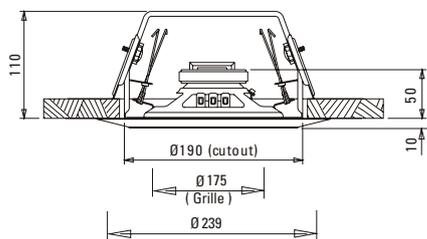
Speech octave band sensitivity



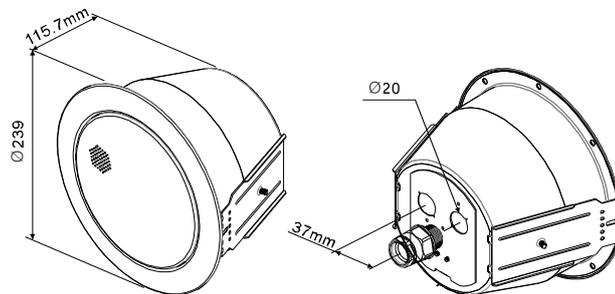
Effective Frequency Range - 65 Hz - 18.5 kHz

unit : mm

Side view



Perspective view



Circuit diagram



Public Address - Voice Alarm

Audio Distribution over IP

Commercial Audio

Intelligent Acoustic Solutions

Intercommunication

Loudspeakers



RCS6FT/EN - RCS6FT/ENC

Round Metal Ceiling Loudspeakers

ELECTRICAL

Rated power, Watts:	6
Tappings 100 volt line, Watts:	6/3/1.5/0.75/0.25
Transformer Impedance, Ohms, 100V:	1.67k/3.33k/6.66k/13.3k/39.9k
Tappings 70.7 volt line, Watts:	3/1.5/0.75/0.375/0.125
Driver impedance, Ohms:	8
Effective frequency range, Hz (BSEN60268-5):	180 - 18K
S.P.L. @ 4m, 1 watt, dB, 1/3 Octave, 1kHz:	65
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100 Hz-10 kHz:	95
S.P.L. @ 4m, Full power, dB, 1/3 Octave 1kHz:	72
S.P.L. @ 1m, Full power, Test Signal Bandwidth 100Hz-10kHz:	102
Dispersion at 1k/2k Hz, Degrees :	180/180

ENVIRONMENTAL

IP-Rating:	21
Max/Min Amb Temp:	55°/-10°C
Relative Humidity:	≤95%

MECHANICAL

Dimensions, mm:	Height 116, Ø239
Net Weight, Kgs:	1.5
Colour (Unless Specified):	RAL9016
Material:	Steel
Mounting:	Torsion springs
Cut-out, mm:	Ø200

With Transformer - 100 V / 70 V Line						
	White wire plus tapping					Black
100 V	0.25 W	0.75 W	1.5 W	3 W	6 W	COM
70 V	0.125 W	0.375 W	0.75 W	1.5 W	3 W	COM
IMP. Ω	39.9 K	13.3 K	6.67 K	3.33 K	1.67 K	

Horizontal coverage angles Vertical angles			
		horizontal	vertical
1 Oct. Pink noise	500 Hz	180°	180°
1 Oct. Pink noise	1 kHz	180°	180°
1 Oct. Pink noise	2 kHz	180°	180°
1 Oct. Pink noise	4 kHz	80°	80°



RCS6FT/EN - RCS6FT/ENC

The RCS range of ceiling loudspeakers has been carefully designed to satisfy the most critical eye. These units are stylish yet unobtrusive and can be supplied with or without fire domes (FT & FTS versions).

Made from a pressed steel epoxy coated chassis incorporating a twin cone driver, which has a wider frequency range than the standard single cone, this makes the RCS range more suitable for use in applications where background music is a primary requirement.

Ease of installation is a key feature of these units, incorporating a user friendly concealed spring mounting arrangement that enables quick and easy access to the speaker once it has been installed.

RCS Series

RCS6FT/EN
RCS6FT/ENC

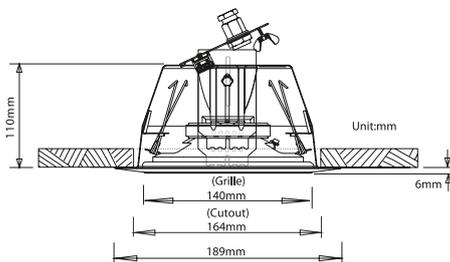
Speech octave band sensitivity



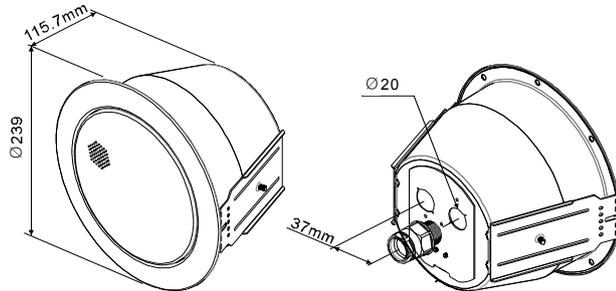
Effective Frequency Range - 180 Hz - 18 kHz

unit : mm

Side view

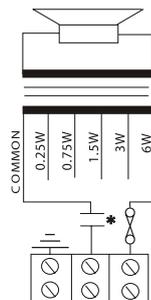


Perspective view



Circuit diagram

* unit fitted with Capacitor



EN54-24-2008
0359-CPD-0137
TYPE A

Public Address - Voice Alarm

Audio Distribution over IP

Commercial Audio

Intelligent Acoustic Solutions

Intercommunication

Loudspeakers



RCS6T/COAX

Round Metal Ceiling Loudspeakers

ELECTRICAL

Rated power, Watts:	10
Tappings 100 volt line, Watts:	10/5/2.5/1.25
Transformer Impedance, Ohms, 100 V:	1k/2k/4k/8k
Tappings 70.7 volt line, Watts:	5/2.5/1.25/0.625
Driver impedance, Ohms:	8
Effective frequency range, Hz (BSEN60268-5):	65-20 K
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100 Hz-10 kHz:	91
S.P.L. @ Full power Octave Bandwidth, dB:	101
Acoustic Power (dB-PWL@1 watt) 1k/2kHz, dB:	88/89
Dispersion at 1k/2k Hz, Degrees :	180/180
Directivity Axial Q factor, 1k/2kHz:	2.2 /4.3

ENVIRONMENTAL

IP-Rating:	21
Max/Min Amb Temp:	55°/-10°C
Relative Humidity:	≤95%

MECHANICAL

Dimensions, mm:	Height 116, Ø239
Net Weight, Kgs:	1.4
Colour (Unless Specified):	RAL9016
Material:	Steel
Mounting:	Torsion springs
Cut-out, mm	Ø190



RCS6T/COAX

The RCS range of ceiling loudspeakers has been carefully designed to satisfy the most critical eye. These units are stylish yet unobtrusive and can be supplied with or without fire domes (FT & FTS versions).

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Ease of installation is a key feature of these units, incorporating a user friendly concealed spring mounting arrangement that enables quick and easy access to the speaker once it has been installed.

RCS Series

RCS6T/COAX

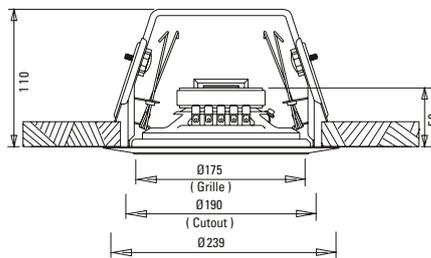
Speech octave band sensitivity



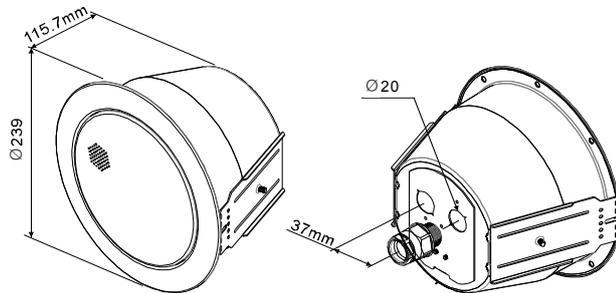
Effective Frequency Range - 65 Hz - 20 kHz

unit : mm

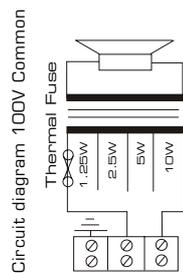
Side view



Perspective view



Circuit diagram



Public Address - Voice Alarm

Audio Distribution over IP

Commercial Audio

Intelligent Acoustic Solutions

Intercommunication

Loudspeakers



RCS6FTCX/EN - RCS6FTCX/ENC

Round Metal Ceiling Loudspeakers

ELECTRICAL

Rated power, Watts:	10
Tappings 100 volt line, Watts:	10/5/2.5/1.25
Transformer Impedance, Ohms, 100V :	1k/2k/4k/8k
Tappings 70.7 volt line, Watts:	5/2.5/1.25/0.625
Driver impedance, Ohms:	8
Effective frequency range, Hz (BSEN60268-5):	130 - 18.5K
S.P.L. @ 4m, 1watt, dB, 1/3 Octave, 1kHz:	62
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100 Hz-10 kHz:	91
S.P.L. @ 4m, Full power, dB, 1/3 Octave 1kHz:	72
S.P.L. @ 1m, Full power, Test Signal Bandwidth 100Hz-10kHz:	101
Dispersion at 1k/2k Hz, Degrees :	180/180

ENVIRONMENTAL

IP-Rating:	21
Max/Min Amb Temp:	55°/-10°c
Relative Humidity:	≤95%

MECHANICAL

Dimensions, mm:	Height 116, Ø239
Net Weight, Kgs:	2.0
Colour (Unless Specified):	RAL9016
Material:	Steel
Mounting:	Torsion springs
Cut-out, mm:	Ø200

With Transformer - 100 V / 70 V Line					
	White wire plus tapping				Black
100 V	1.25 W	2.5 W	5 W	10 W	COM
70 V	0.625 W	1.25 W	2.5 W	5 W	COM
IMP.(Ω)	8K	4 K	2K	1 K	

Horizontal coverage angles Vertical angles			
		horizontal	vertical
1 Oct. Pink noise	500 Hz	180°	180°
1 Oct. Pink noise	1 kHz	180°	180°
1 Oct. Pink noise	2 kHz	180°	180°
1 Oct. Pink noise	4 kHz	60°	60°



EN54
24

RCS6FTCX/EN - RCS6FTCX/ENC

The RCS range of ceiling loudspeakers has been carefully designed to satisfy the most critical eye. These units are stylish yet unobtrusive and can be supplied with or without fire domes (FT & FTS versions).

Made from a pressed steel epoxy coated chassis incorporating a twin cone driver, which has a wider frequency range than the standard single cone, this makes the RCS range more suitable for use in applications where background music is a primary requirement.

Ease of installation is a key feature of these units, incorporating a user friendly concealed spring mounting arrangement that enables quick and easy access to the speaker once it has been installed.

RCS Series

RCS6FTCX/EN
RCS6FTCX/ENC

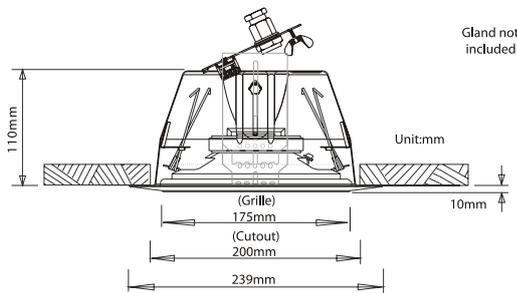
Speech octave band sensitivity



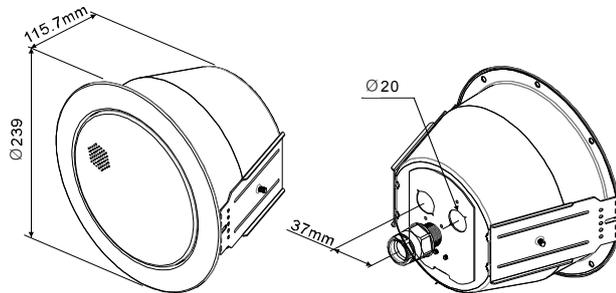
Effective Frequency Range - 130 Hz - 18.5 kHz

unit : mm

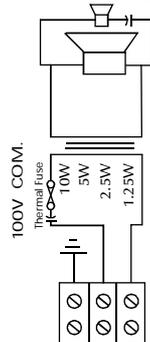
Side view



Perspective view



Circuit diagram



EN54-24-2008
0359-CPD-0137
TYPE A

RCS8/T

Round Metal Ceiling Loudspeakers

ELECTRICAL

Rated power, Watts:	10
Tappings 100 volt line, Watts:	10/5/2.5/1.25
Transformer Impedance, Ohms, 100V:	1k/2k/4k/8k
Tappings 70.7 volt line, Watts:	5/2.5/1.25/0.625
Driver impedance, Ohm:	8
Effective frequency range, Hz (BSEN60268-5):	65-17K
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100 Hz-10 kHz:	94
S.P.L. @ Full power Octave Bandwidth, dB:	104
Acoustic Power (dB-PWL@1 watt) 1k/2kHz, dB:	89/90
Dispersion at 1k/2k Hz, Degrees :	180/110
Directivity Axial Q factor, 1k/2kHz:	2.7/6.7

ENVIRONMENTAL

IP-Rating:	21
Max/Min Amb Temp:	55°/-10°c
Relative Humidity:	≤95%

MECHANICAL

Dimensions, mm:	Height 113, Ø280
Net Weight, Kgs:	1.4
Colour (Unless Specified)	RAL9016
Material:	Steel
Mounting:	Torsion springs
Cut-out, mm:	Ø238



RCS8/T

The RCS range of ceiling loudspeakers has been carefully designed to satisfy the most critical eye. These units are stylish yet unobtrusive and can be supplied with or without fire domes (FT & FTS versions).

Made from a pressed steel epoxy coated chassis incorporating a twin cone driver, which has a wider frequency range than the standard single cone, this makes the RCS range more suitable for use in applications where background music is a primary requirement.

Ease of installation is a key feature of these units, incorporating a user friendly concealed spring mounting arrangement that enables quick and easy access to the speaker once it has been installed.

RCS Series

RCS8/T

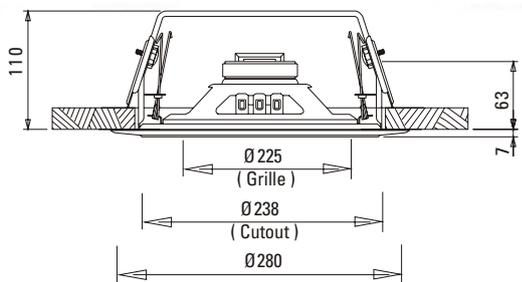
Speech octave band sensitivity



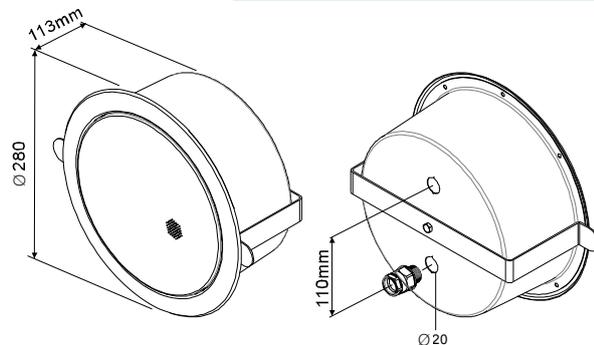
Effective Frequency Range - 65 Hz - 17 kHz

unit : mm

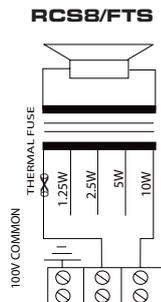
Side view



Perspective view



Circuit diagram



Public Address - Voice Alarm

Audio Distribution over IP

Commercial Audio

Intelligent Acoustic Solutions

Intercommunication

Loudspeakers



RCS8/TCOAX

Round Metal Ceiling Loudspeakers

ELECTRICAL

Rated power, Watts:	20
Tappings 100 volt line, Watts:	20/10/5/2.5
Transformer Impedance, Ohms, 100V:	0.5k/1k/2k/4k
Tappings 70.7 volt line, Watts:	10/ 5/2.5/1.25
Driver impedance, Ohm:	8
Effective frequency range, Hz (BSEN60268-5):	60-20K
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100 Hz-10 kHz:	91
S.P.L. @ Full power Octave Bandwidth, dB:	104
Acoustic Power (dB-PWL@1 watt) 1k/2kHz, dB:	87/89
Dispersion at 1k/2k Hz, Degrees :	180/110
Directivity Axial Q factor, 1k/2kHz:	3.0/6.5

ENVIRONMENTAL

IP-Rating:	21
Max/Min Amb Temp:	55°/-10°C
Relative Humidity:	≤95%

MECHANICAL

Dimensions, mm:	Height 112, Ø280
Net Weight, Kgs:	1.85
Colour (Unless Specified)	RAL9016
Material:	Steel
Mounting:	Torsion springs
Cut-out, mm:	Ø238



RCS8/TCOAX

The RCS range of ceiling loudspeakers has been carefully designed to satisfy the most critical eye. These units are stylish yet unobtrusive and can be supplied with or without fire domes (FT & FTS versions).

Made from a pressed steel epoxy coated chassis incorporating a twin cone driver, which has a wider frequency range than the standard single cone, this makes the RCS range more suitable for use in applications where background music is a primary requirement.

Ease of installation is a key feature of these units, incorporating a user friendly concealed spring mounting arrangement that enables quick and easy access to the speaker once it has been installed.

RCS Series

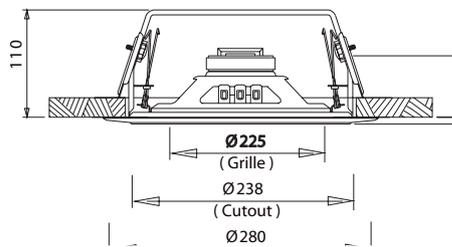
RCS8T/COAX

Speech octave band sensitivity

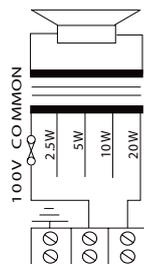


Effective Frequency Range - 60 Hz - 20 kHz

unit : mm Side view



Circuit diagram



Public Address - Voice Alarm

Audio Distribution over IP

Commercial Audio

Intelligent Acoustic Solutions

Intercommunication

Loudspeakers



RCS8FTCX/EN - RCS8FTCX/ENC

Round Metal Ceiling Loudspeakers

EN54
24



ELECTRICAL

Rated power, Watts:	20
Tappings 100 volt line, Watts:	20/10/5/2.5
Transformer Impedance, Ohms, 100V:	0.5k/1k/2k/4k
Tappings 70.7 volt line, Watts:	10/5/2.5/1.25
Driver impedance, Ohms:	8
Effective frequency range, Hz (BSEN60268-5):	100 - 20K
S.P.L. @ 4m, 1watt, dB, 1/3 Octave, 1kHz:	66
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100 Hz-10 kHz:	94
S.P.L. @ 4m, Full power, dB, 1/3 Octave 1kHz:	79
S.P.L. @ 1m, Full power, Test Signal Bandwidth 100Hz-10kHz:	107
Dispersion at 1k/2k Hz, Degrees :	180/80

ENVIRONMENTAL

IP-Rating:	21
Max/Min Amb Temp:	55°/-10°C
Relative Humidity:	≤95%

MECHANICAL

Dimensions, mm:	Height 113, Ø280
Net Weight, Kgs:	2.93
Colour (Unless Specified):	RAL9016
Material:	Steel
Mounting:	Torsion springs
Cut-out, mm:	Ø246

With Transformer - 100 V / 70 V Line

	White wire plus tapping				Black	
	100 V	2.5 W	5 W	10 W	20 W	COM
70 V	1.25 W	2.5 W	5 W	10 W	COM	
IMP.(Ω)	4K	2K	1K	0.5 K		

Horizontal coverage angles Vertical angles

		horizontal	vertical
1 Oct. Pink noise	500 Hz	180°	180°
1 Oct. Pink noise	1 kHz	180°	180°
1 Oct. Pink noise	2 kHz	80°	80°
1 Oct. Pink noise	4 kHz	60°	60°

RCS8FTCX/EN - RCS8FTCX/ENC

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RCS Series

RCS8FTCX/EN
RCS8FTCX/ENC

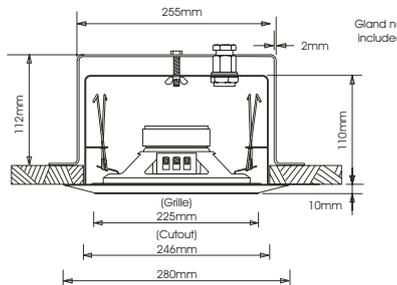
Speech octave band sensitivity



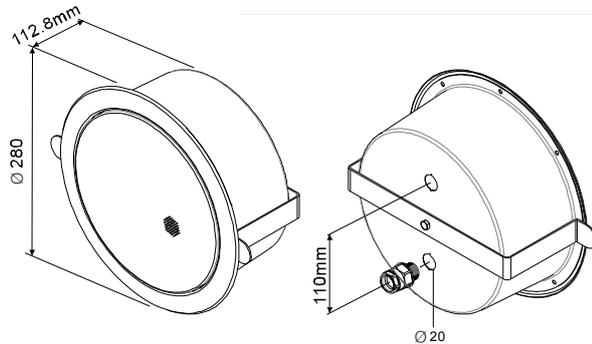
Effective Frequency Range - 100 Hz - 20 kHz

unit : mm

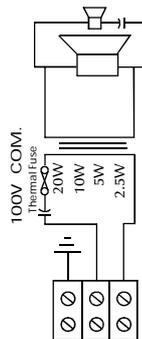
Side view



Perspective view



Circuit diagram



EN54-24-2008
0359-CPD-0137
TYPE A

RGS5/T

Round Metal Ceiling Loudspeakers

ELECTRICAL

Rated power, Watts:	6
Tappings 100 volt line, Watts:	6/3/1.5/0.75
Transformer Impedance, Ohms, 100V:	1.67k/3.33k/6.66k/13.3k
Tappings 70.7 volt line, Watts:	3/1.5/0.75/0.375
Driver impedance, Ohms:	8
Effective frequency range, Hz (BSEN60268-5):	100-17.5K
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100 Hz-10 kHz:	87
S.P.L. @ Full power Octave Bandwidth, dB:	95
Acoustic Power (dB-PWL@1 watt) 1k/2kHz, dB:	81/86
Dispersion at 1k/2k Hz, Degrees :	180/160
Directivity Axial Q factor, 1k/2kHz:	2.0 /5.0

ENVIRONMENTAL

IP-Rating:	21
Max/Min Amb Temp:	55°/-10°C
Relative Humidity:	≤95%

MECHANICAL

Dimensions, mm:	Height 79, Ø190
Net Weight, Kgs:	0.9
Colour (Unless Specified):	RAL9016
Material:	Steel
Mounting:	Bayonet system with 3 springs
Cut-out, mm:	Ø172



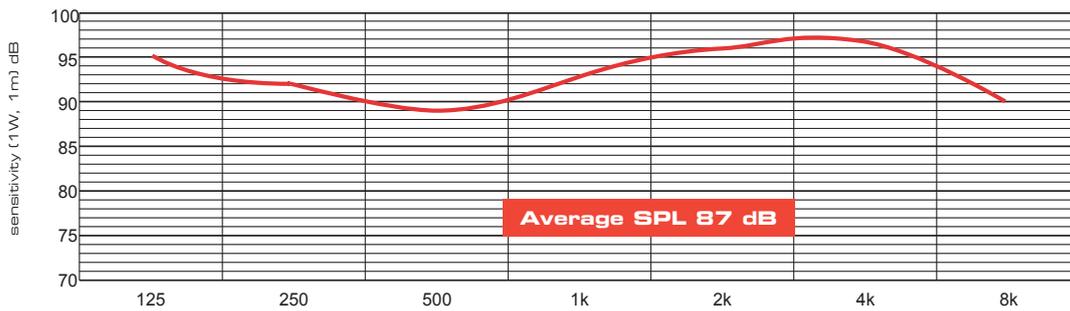
RGS5/T

The Classic ceiling RGS product line offers speaker made of metal, highly efficiency, available in two sizes. The mounting system has been improved once more: 3 spring clamps with cropped leg spring, increased clamp force and shortened tension distance. This allows a quick and easy mounting. The high quality broadband chassis and transformer make part of the chassis. The grill can be release from the front side.

RGS Series

RGS5/T

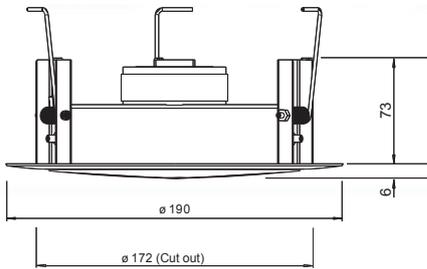
Speech octave band sensitivity



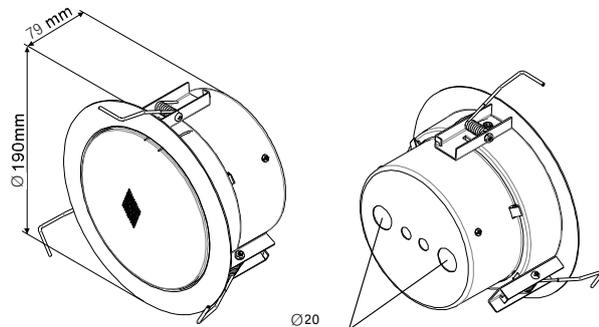
Effective Frequency Range - 100 Hz - 17.5 kHz

unit : mm

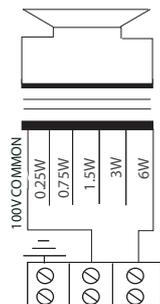
Side view



Perspective view



Circuit diagram



RGS5FT/EN - RGS5FT/ENC

Round Metal Ceiling Loudspeakers

ELECTRICAL

Rated power, Watts:	6
Tappings 100 volt line, Watts:	6/3/1.5/0.75/0.25
Transformer Impedance, Ohms, 100V:	1.67k/3.33k/6.66k/13.3k/40k
Tappings 70.7 volt line, Watts:	3/1.5/0.75/0.375/0.125
Driver impedance, Ohms:	8
Effective frequency range, Hz (BSEN60268-5):	100-17.5 K
S.P.L. @ 4m, 1 watt, dB, 1/3 Octave, 1kHz:	63
S.P.L. @ 1m, 1 watt, dB, Octave, 1kHz:	87
S.P.L. @ 4m, Full power, dB, 1/3 Octave, 1kHz:	71
S.P.L. @ 1m, 1 watt, dB, Octave, 1kHz:	95

ENVIRONMENTAL

IP-Rating:	21
Max/Min Amb Temp:	55°/-10°C
Relative Humidity:	≤95%

MECHANICAL

Dimensions, mm:	Height 100, Ø190
Net Weight, Kgs:	1.1
Colour (Unless Specified):	RAL9016
Material:	Steel
Mounting:	Bayonet system with 3 springs
Cut-out, mm:	Ø172

With Transformer - 100 V / 70 V Line

	White wire plus tapping					Black	
	100 V	0.25 W	0.75 W	1.5 W	3 W	6 W	COM
70 V	0.125 W	0.375 W	0.75 W	1.5 W	3 W	6 W	COM
IMP.(Ω)	40 K	13.3 K	6.67 K	3.33 K	1.67 K		

Horizontal coverage angles Vertical angles

		horizontal	vertical
1 Oct. Pink noise	500 Hz	180°	180°
1 Oct. Pink noise	1 kHz	180°	180°
1 Oct. Pink noise	2 kHz	180°	180°
1 Oct. Pink noise	4 kHz	80°	80°



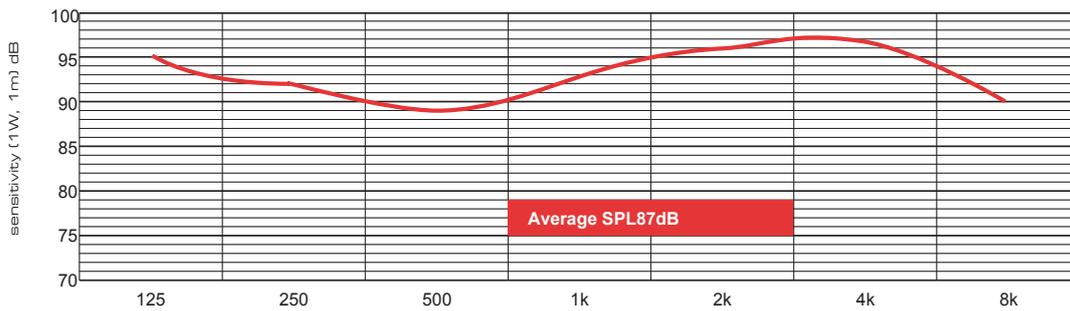
RGS5FT/EN - RGS5FT/ENC

The Classic ceiling RGS product line offers speaker made of metal, highly efficiency, available in two sizes. The mounting system has been improved once more: 3 spring clamps with cropped leg spring, increased clamp force and shortened tension distance. This allows a quick and easy mounting. The high quality broadband chassis and transformer make part of the chassis. The grill can be release from the front side.

RGS Series

RGS5FT/EN
RGS5FT/ENC

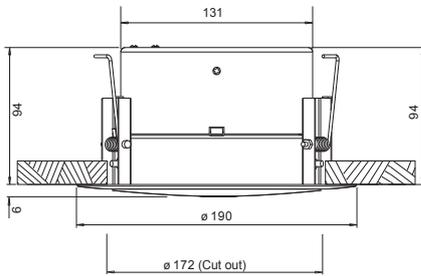
Speech octave band sensitivity



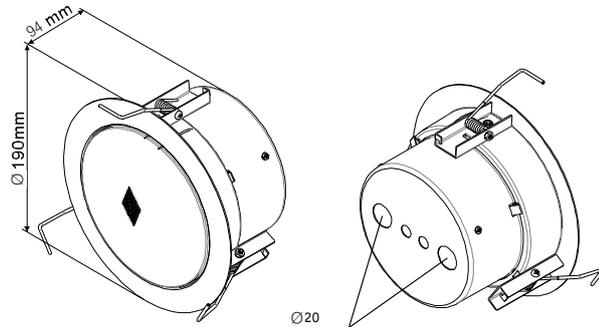
Effective Frequency Range - 100 Hz - 17.5 kHz

unit : mm

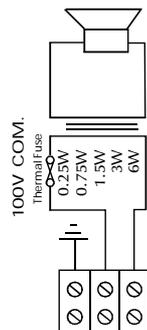
Side view



Perspective view



Circuit diagram



CE

EN54-24-2008
0359-CPD-0137
TYPE A

RGS6/T

Round Metal Ceiling Loudspeakers

ELECTRICAL

Rated power, Watts:	6
Tappings 100 volt line, Watts:	6/3/1.5/0.75
Transformer Impedance, Ohms, 100V:	1.67k/3.33k/6.66k/13.9k
Tappings 70.7 volt line, Watts:	3/1.5/0.75/0.375
Driver impedance, Ohms:	8
Effective frequency range, Hz (BSEN60268-5):	100-17.5K
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100 Hz-10 kHz:	92
S.P.L. @ Full power Octave Bandwidth, dB:	100
Acoustic Power (dB-PWL@1 watt) 1k/2kHz, dB:	87/88
Dispersion at 1k/2k Hz, Degrees :	180/180
Directivity Axial Q factor, 1k/2kHz:	2.3 / 7.6

ENVIRONMENTAL

IP-Rating:	21
Max/Min Amb Temp:	55°/-10°C
Relative Humidity:	≤95%

MECHANICAL

Dimensions, mm:	Height 80, Ø215
Net Weight, Kgs:	1.1
Colour (Unless Specified):	RAL9016
Material:	Steel
Mounting:	Bayonet system with 3 springs
Cut-out, mm:	Ø195



RGS6/T

The classic RGS product line offers highly efficient speakers made of metal, available in two sizes. The proven mounting system with spring clamps and cropped leg springs increases clamp force and shortens tension distance. This allows a quick and easy mounting. The high-quality broadband driver and transformer are attached to the front grille attached to the assembly ring by a bayonet lock.

RGS Series

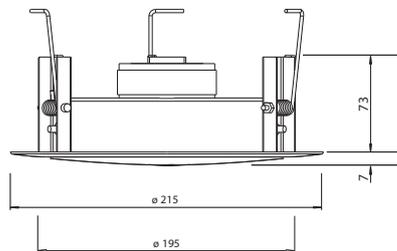
RGS6/T

Speech octave band sensitivity

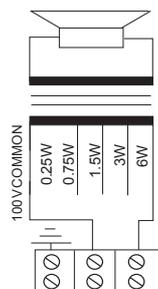


Effective Frequency Range - 100 Hz - 17.5 kHz

unit : mm Side view



Circuit diagram



Public Address - Voice Alarm

Audio Distribution over IP

Commercial Audio

Intelligent Acoustic Solutions

Intercommunication

Loudspeakers



RGS6FT/EN - RGS6FT/ENC

Round Metal Ceiling Loudspeakers

ELECTRICAL

Rated power, Watts:	6
Tappings 100 volt line, Watts:	6/3/1.5/0.75/0.25
Transformer Impedance, Ohms, 100V:	1.67k/3.33k/6.66k/13.3k/40k
Tappings 70.7 volt line, Watts:	3/1.5/0.75/0.375/0.125
Driver impedance, Ohms:	8
Effective frequency range, Hz (BSEN60268-5):	100-17.5K
S.P.L. @ 4m, 1 watt, dB, 1/3 Octave, 1kHz:	66
S.P.L. @ 1m, 1 watt, dB, Octave, 1kHz:	92
S.P.L. @ 4m, Full power, dB, 1/3 Octave, 1kHz:	74
S.P.L. @ 1m, 1 watt, dB, Octave, 1kHz:	100

ENVIRONMENTAL

IP-Rating:	21
Max/Min Amb Temp:	55°/-10°C
Relative Humidity:	≤95%

MECHANICAL

Dimensions, mm:	Height 113, Ø190
Net Weight, Kgs:	1.35
Colour (Unless Specified):	RAL9016
Material:	Steel
Mounting:	Bayonet system with 3 springs
Cut-out, mm:	Ø195



With Transformer - 100 V / 70 V Line

	White wire plus tapping					Black
	100 V	0.25 W	0.75 W	1.5 W	3 W	
70 V	0.125 W	0.375 W	0.75 W	1.5 W	3 W	COM
IMP.(Ω)	40 K	13.3 K	6.67 K	3.33 K	1.67 K	

Horizontal coverage angles Vertical angles

		horizontal	vertical
1 Oct. Pink noise	500 Hz	180°	180°
1 Oct. Pink noise	1 kHz	180°	180°
1 Oct. Pink noise	2 kHz	180°	180°
1 Oct. Pink noise	4 kHz	80°	80°

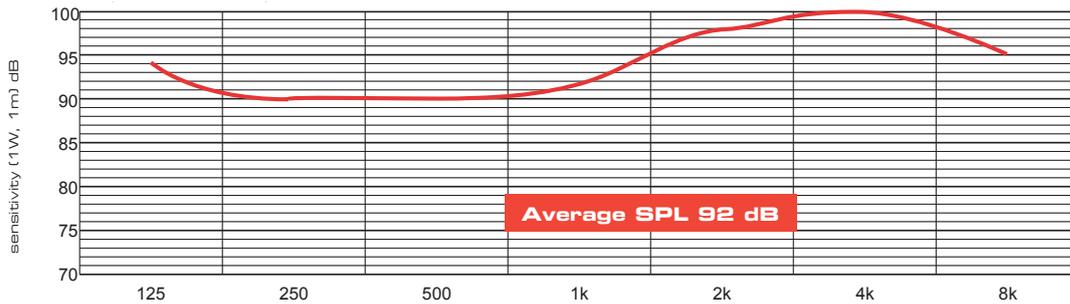
RGS6FT/EN - RGS6FT/ENC

The classic RGS product line offers highly efficient speakers made of metal, available in two sizes. The proven mounting system with spring clamps and cropped leg springs increases clamp force and shortens tension distance. This allows a quick and easy mounting. The high-quality broadband driver and transformer are attached to the front grille attached to the assembly ring by a bayonet lock.

RGS Series

RGS6FT/EN
RGS6FT/ENC

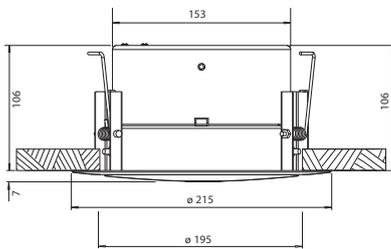
Speech octave band sensitivity



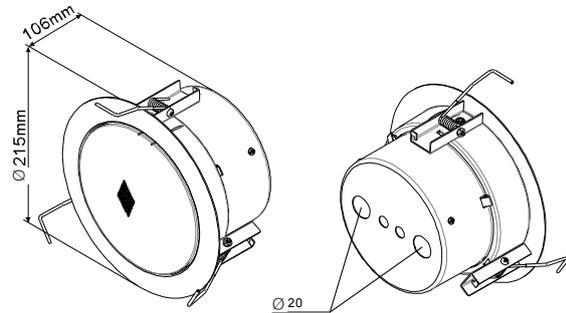
Effective Frequency Range - 100 Hz - 17.5 kHz

unit : mm

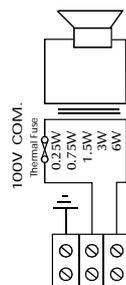
Side view



Perspective view



Circuit diagram



EN54-24-2008
0359-CPD-0137
TYPE A

RNS5/T - RNS5/TC

Round Metal Ceiling Loudspeakers

ELECTRICAL

Rated power, Watts:	6
Tappings 100 volt line, Watts:	6/3/1.5/0.75/0.25
Transformer Impedance, Ohms, 100V: 1.67k/3.33k/6.66k/13.3k/39.9k	
Tappings 70.7 volt line, Watts:	3/1.5/0.75/0.375/0.125
Driver impedance, Ohms:	8
Effective frequency range, Hz (BSEN60268-5):	120-17.5K
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100 Hz-10 kHz:	92
S.P.L. @ Full power Octave Bandwidth, dB:	97
Dispersion at 1kHz/2kHz, Degrees:	180
Directivity Axial Q factor, 1kHz:	2.3

ENVIRONMENTAL

IP-Rating:	21
Max/Min Amb Temp:	55°/-10°C
Relative Humidity:	≤95%

MECHANICAL

Dimensions, mm:	Height 65, Ø180
Net Weight, Kgs:	0.80
Colour (Unless Specified):	RAL9016
Material:	Steel
Mounting:	2 quick release springs
Cut-out, mm:	Ø155



RNS5/T - RNS5/TC

The RNS product line features easy to install metal ceiling speakers. The quick release clamps allow both a fast and tight mounting in the ceiling.

RNS Series

RNS5/T
RNS5/TC

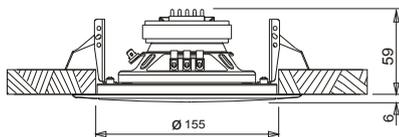
Speech octave band sensitivity



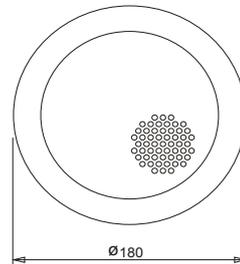
Effective Frequency Range - 120 Hz - 17.5 kHz

unit : mm

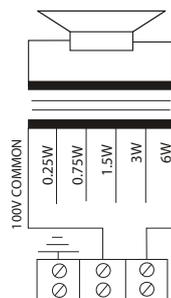
Side view



Front view



Circuit diagram



RNS6/T

Round Metal Ceiling Loudspeakers

ELECTRICAL

Rated power, Watts:	6
Tappings 100 volt line, Watts:	6/3/1.5/0.75/0.25
Transformer Impedance, Ohms, 100V:	1.67k/3.33k/6.66k/13.3k/39.9k
Tappings 70.7 volt line, Watts:	3/1.5/0.75/0.375/0.125
Driver impedance, Ohms:	8
Effective frequency range, Hz (BSEN60268-5):	110-18.5K
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100 Hz-10 kHz:	95
S.P.L. @ Full power Octave Bandwidth, dB:	99
Dispersion at 1kHz/2kHz, Degrees:	160
Directivity Axial Q factor, 1kHz:	2.1

ENVIRONMENTAL

IP-Rating:	21
Max/Min Amb Temp:	55°/-10°C
Relative Humidity:	≤95%

MECHANICAL

Dimensions, mm:	Height 65, Ø227
Net Weight, Kgs:	0.95
Colour (Unless Specified):	RAL9016
Material:	Powder-coated steel sheet
Mounting:	2 quick release springs
Cut-out, mm:	Ø198



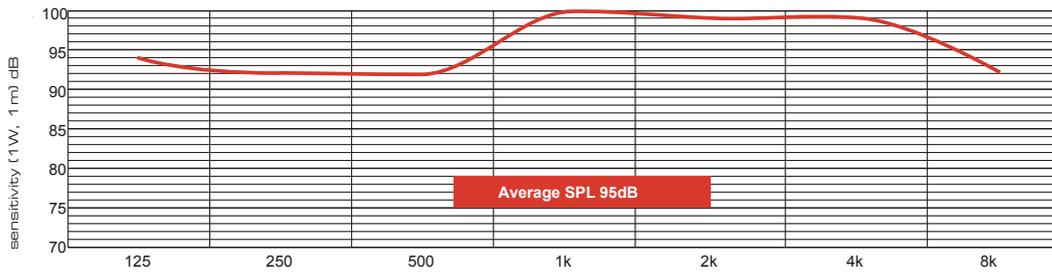
RNS6/T

The RNS product line features easy to install metal ceiling speakers. The quick release clamps allow both a fast and tight mounting in the ceiling.

RNS Series

RNS6/T

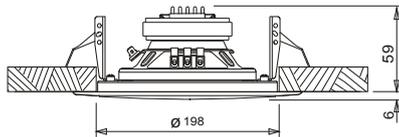
Speech octave band sensitivity



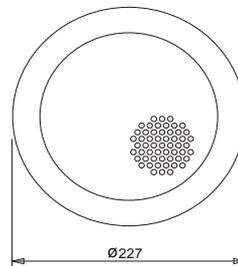
Effective Frequency Range - 110 Hz - 18.5 kHz

unit : mm

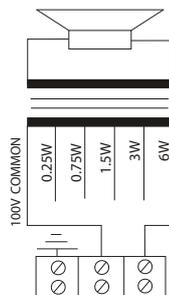
Side view



Front view



Circuit diagram



PCL6/T

Round Metal Ceiling Loudspeakers

ELECTRICAL

Rated power, Watts:	6
Tappings 100 volt line, Watts:	6/3/1.5/0.75/0.25
Transformer Impedance, Ohms, 100V:	1.67k/3.33k/6.66k/13.3k/39.9k
Tappings 70.7 volt line, Watts:	3/1.5/0.75/0.375/0.125
Driver impedance, Ohms:	8
Effective frequency range, Hz (BSEN60268-5):	85-18.5K
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100 Hz-10 kHz:	92
S.P.L. @ Full power Octave Bandwidth, dB:	90
Dispersion at 1kHz/2kHz, Degrees:	180/120
Directivity Axial Q factor, 1kHz/2kHz:	2.1/4.9

ENVIRONMENTAL

IP-Rating:	21
Max/Min Amb Temp:	55°/-10°C
Relative Humidity:	≤95%

MECHANICAL

Dimensions, mm:	Height 80, Ø234
Net Weight, Kgs:	0.9
Colour (Unless Specified):	RAL9016
Material:	Plastic Baffle ABS with UV inhibitors, Metal driver chassis & grille
Mounting:	Rotary compression clamps
Cut-out, mm:	Ø194



PCL6/T

The **PCL range** of ceiling loudspeakers are manufactured in high grade white ABS plastic compound, UL, VO yellow card approved, with aluminium, epoxy powder coated grille. This Combination of materials offers a cost effective alternative to our RCS range, whilst still maintaining its stylish design but with the added benefit of being weather resistant.

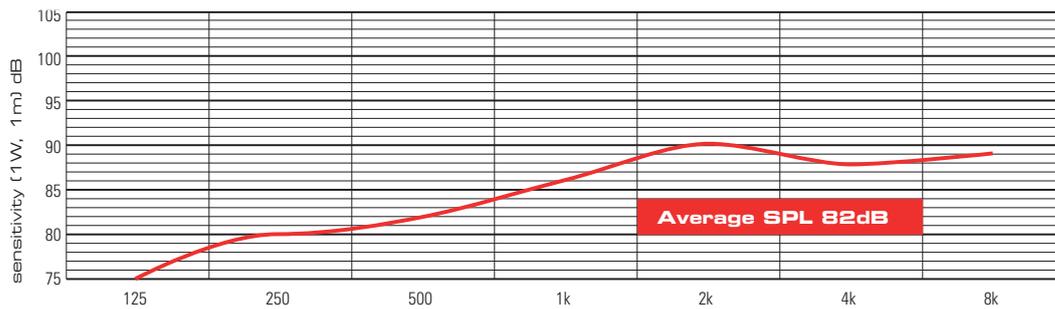
Supplied with a dual cone drive unit, giving a wider frequency range than the standard single cone, making the PCL range more suitable for use in applications where background music is a primary requirement.

Manufactured and tested to a high standard in accordance with BS6840, these units can be treated for use in damp humid environments or facilities where the units need to be frequently wiped clean.

PCL Series

PCL6/T

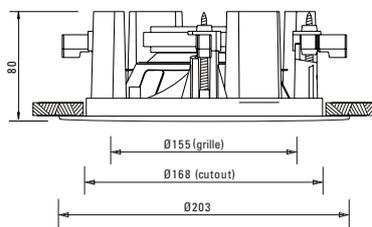
Speech octave band sensitivity



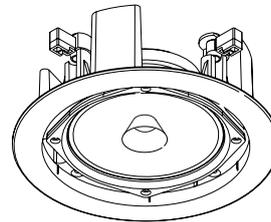
Effective Frequency Range - 85 Hz - 18.5 kHz

unit : mm

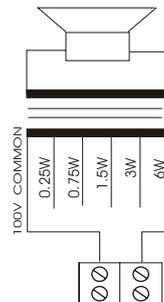
Side view



Perspective view



Circuit diagram



Public Address - Voice Alarm

Audio Distribution over IP

Commercial Audio

Intelligent Acoustic Solutions

Intercommunication

Loudspeakers



CCS4/T

Round Plastic Ceiling Loudspeakers

ELECTRICAL

Rated power, Watts:	30
Tappings 100 volt line, Watts:	30/15/7.5/3.75
Transformer Impedance, Ohms, 100V:	330/660/1.32/2.64k
Tappings 70.7 volt line, Watts:	15/7.5/3.75/1.875
Driver impedance, Ohms:	16
Effective frequency range, Hz (BSEN60268-5):	65-19.5K
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100 Hz-10 kHz:	86
S.P.L. @ Full power Octave Bandwidth, dB:	101
Acoustic Power (dB-PWL@1 watt) 1kHz/2kHz, dB:	180/160
Directivity Axial Q factor, 1kHz/2kHz:	2.40/4.5

MECHANICAL

Dimensions, front and depth,mm:	207 x 196
Net Weight, Kgs:	2.5
Colour (Unless Specified):	RAL9016
Material:	Plastic Baffle ABS with UV inhibitors
Mounting:	Rotary compression clamps
Cut-out, mm:	Ø168



CCS4/T

The CCS4T was designed for high-end audio installation where full impact bass output along with high sound pressure levels is imperative. The speaker component is situated in a sealed metal back-box with a UL Plenum compliant wire connection on the back of the back-box. Installer friendly phoenix style terminal blocks quickly and easily connect to the speaker and also offers a pass-through connection for continuing the line to other speakers in the system. The unit uses a 4" long throw low frequency driver along with a 1" tweeter mounted on axis for single point sound output. A bass port on the front of the baffle serves to further extend the low frequencies of this speaker. Transformer selection is completed via a screwdriver adjustable dial on the front of the baffle easily accessible by removing the grille. With a maximum 30 Watts transformer tap selection this speaker offers unique sonic qualities along with a substantial sound pressure level. The CCS4T is an excellent choice for any type of background music application and a good choice for many foreground music applications as well. Upscale restaurants, sports clubs, hotels, malls, and any other location where high-quality audio is desired will find the CCS4T to be a very attractive choice. With its low profile it is also a great choice for boardrooms and other venues where high quality sound is imperative, but the visual aspects of the speaker are equally important.

CCS Series

CCS4/T

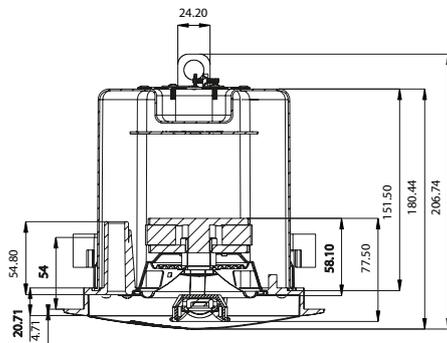
Speech octave band sensitivity



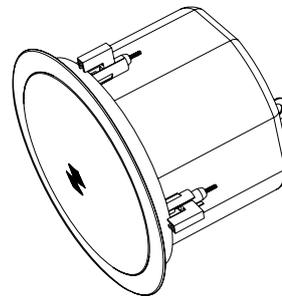
Effective Frequency Range - 65 Hz - 19.5 kHz

unit : mm

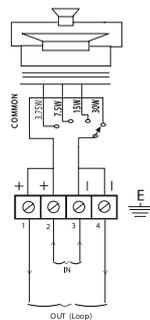
Side view



Perspective view



Circuit diagram



CCS6/T

Round Plastic Ceiling Loudspeakers

ELECTRICAL

Rated power, Watts:	60
Tappings 100 volt line, Watts:	60/30/15/7.5/3.75
Transformer Impedance, Ohms, 100V:	167/333/667/1.32k
Tappings 70.7 volt line, Watts:	30/15/7.5/3.75
Driver impedance, Ohms:	16
Effective frequency range, Hz (BSEN60268-5):	70-20K
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100 Hz-10 kHz:	88
S.P.L. @ Full power Octave Bandwidth, dB:	104
Acoustic Power (dB-PWL@1 watt) 1kHz/2kHz, dB:	88/93
Directivity Axial Q factor, 1kHz/2kHz:	2.3/6.9

MECHANICAL

Dimensions, front and depth,mm:	263, 214
Net Weight, Kgs:	3.5
Colour (Unless Specified):	RAL9016
Material:	Plastic Baffle ABS with UV inhibitors
Mounting:	Rotary compression clamps
Cut-out, mm:	Ø230



CCS6/T

The CCS6T was designed for high-end audio installation where full impact bass output along with high sound pressure levels is imperative. The speaker component is situated in a sealed metal back-box with a UL Plenum compliant wire connection on the back of the back-box. Installer friendly phoenix style terminal blocks quickly and easily connect to the speaker and also offers a pass-through connection for continuing the line to other speakers in the system.

The unit uses a 4" long throw low frequency driver along with a 1" tweeter mounted on axis for single point sound output. A bass port on the front of the baffle serves to further extend the low frequencies of this speaker. Transformer selection is completed via a screwdriver adjustable dial on the front of the baffle easily accessible by removing the grille. With a maximum 60 Watts transformer tap selection this speaker offers unique sonic qualities along with a substantial sound pressure level.

The CCS6T is an excellent choice for any type of background music application and a good choice for many foreground music applications as well. Upscale restaurants, sports clubs, hotels, malls, and any other location where high-quality audio is desired will find the CCS6T to be a very attractive choice. With its low profile it is also a great choice for boardrooms and other venues where high quality sound is imperative, but the visual aspects of the speaker are equally important.

Ceiling Speakers-1

CCS Series

CCS6/T

Speech octave band sensitivity



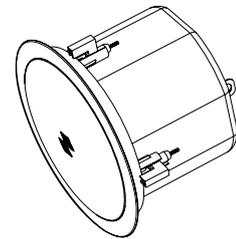
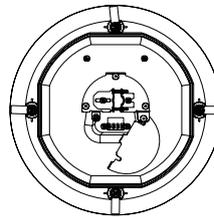
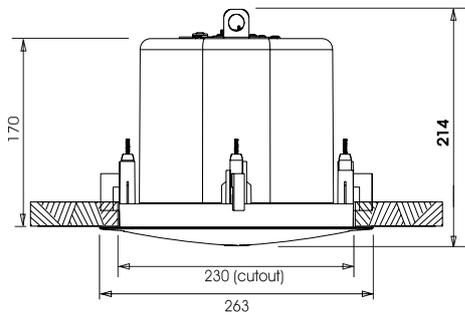
Effective Frequency Range - 70 Hz - 20 kHz

unit : mm

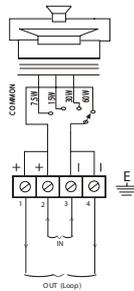
Side view

Rear view

Perspective view



Circuit diagram



CE

Public Address - Voice Alarm

Audio Distribution over IP

Commercial Audio

Intelligent Acoustic Solutions

Intercommunication

Loudspeakers



ATEiS Europe B.V.

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