

MOULDED SOUND PROJECTORS



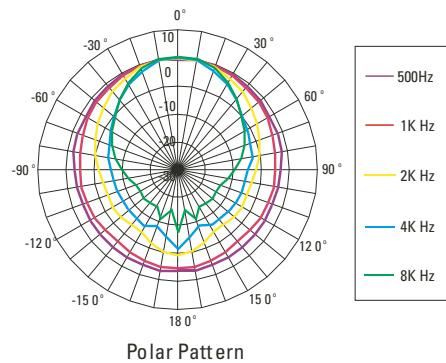
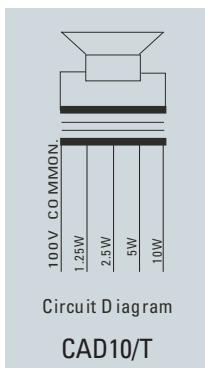
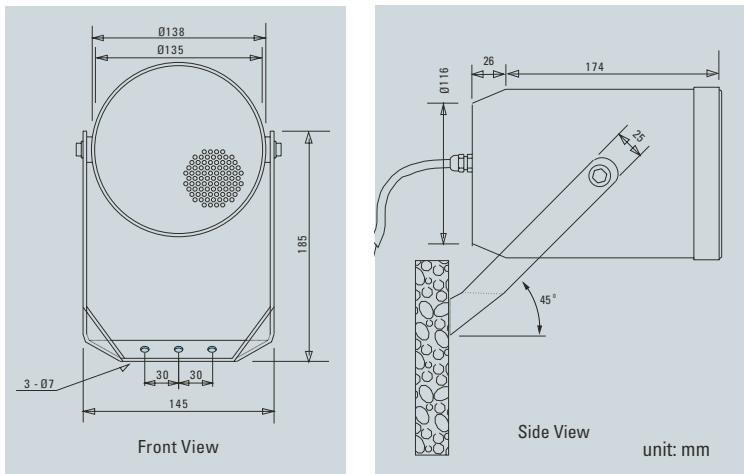
• CAD10/T • CAD10/TC

Technical Specifications

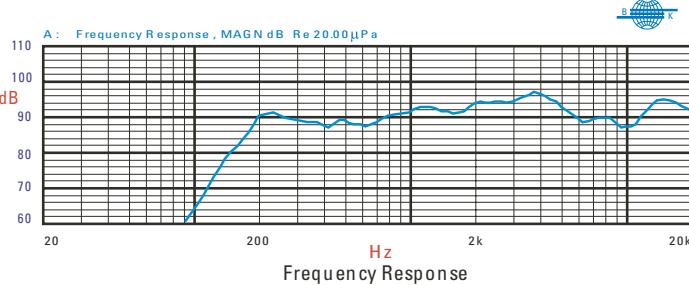
Rated power, Watts	10
Tappings 100 volt line, Watts	10/5/2.5/1.25
Transformer Impedance, Ohms	1k/2k/4k/8k
Tappings 70.7 volt line, Watts	5/2.5/1.25/0.375
Driver impedance, Ohms	8
Effective frequency range, Hz (BS6840)	120–18,000
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz – 10 kHz	91
S.P.L. @ Full power, Octave Bandwidth dB	100
Acoustic Power (dB-PWL@1 Watt) 1k/2k Hz, dB	87 / 89
Dispersion at 1k/2k Hz, Degrees	180 / 120
Directivity Axial Q factor, 1 k/2kHz	2.50 / 5.80
Dimensions, front & depth, mm	Ø138 x 204
Net weight, Kgs	1.55
Colour/Finish	White
Material	ABS Plastic with UV inhibitor and Stainless steel hardware
Mounting	Aluminium U bracket

'C' Version can be supplied as BS5839 Part 8 voice alarm compliant, on request

CAD10/T CAD10/TC



CE



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LOUDSPEAKER VOLUME CONTROL

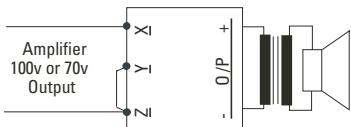
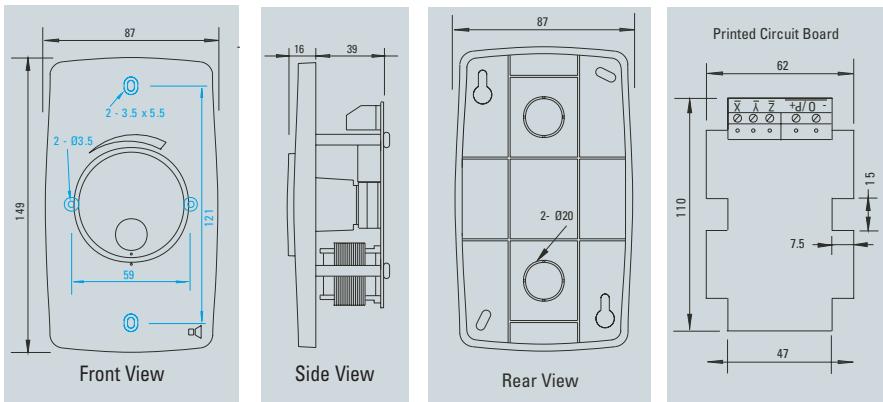


• VCT80

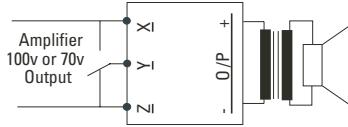
Technical Specifications

Rated power 100 volt/70.7 volt line, Watts	80 /40
Transformer output steps@ 100 volt line, Volts	100/70.7/50/35.36/25/17.68/ 12.50/8.84/6.25/4.42/3.12/OFF
Transformer output steps@ 70.7 volt line, Volts	70.7/50/35.36/25/17.68/12.50/ 8.84/6.25/4.42/3.12/2.21/OFF
Attenuation Per Step, dB	3
Total Attenuation, dB	30
Attenuation Positions	10 plus OFF
Insertion Loss, dB	0.6
Effective frequency range @1k Hz-1dB, Hz	20–20,000
Dimensions, front & depth, mm	149 x 87 x 61
Net weight, Kgs	Flush: 0.33, Surface: 0.42
Colour/Finish	White
Material	ABS Moulded
Mounting	Flush and Surface

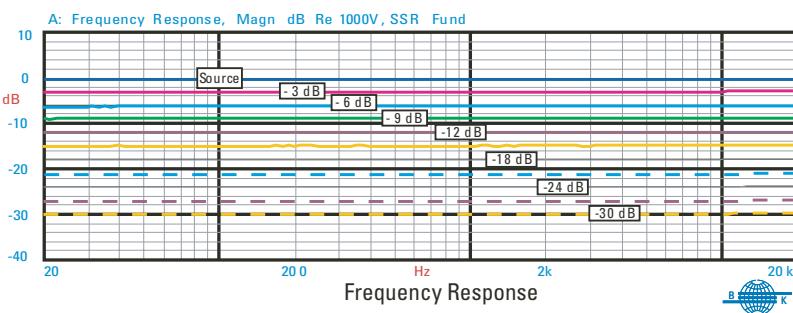
VCT80



1. Short "Y" and "Z".
2. Connect as shown on the diagram.



1. Connect amplifier output to "X", "Z" and "Y" as shown on the diagram.



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LOUDSPEAKER VOLUME CONTROL

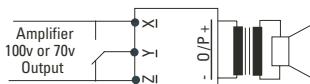
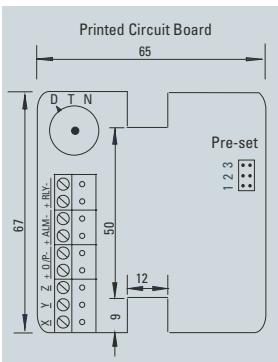
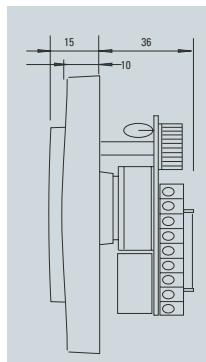
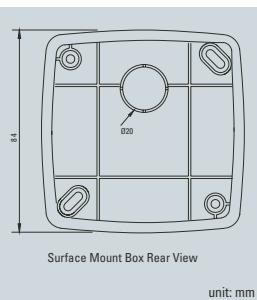
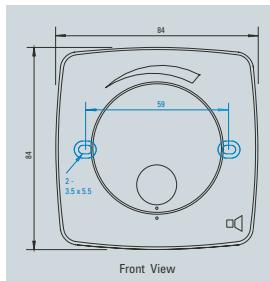


• VCT25R

Technical Specifications

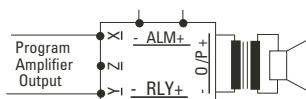
Rated power 100 volt/70.7 volt line, Watts	25 / 12
Transformer output steps@ 100 volt line, Volts	100/70.7/50/35.36/25/17.68/ 12.50/8.84/6.25/4.42/3.12/OFF
Transformer output steps@ 70.7 volt line, Volts	70.7/50/35.36/25/17.68/12.50/ 8.84/6.25/4.42/3.12/2.21/OFF
Attenuation Per Step, dB	3
Total Attenuation, dB	30
Attenuation Positions	10 plus OFF
Insertion Loss, dB	0.4
Effective frequency range @1k Hz-1dB, Hz	40-20,000
Dimensions, front & depth, mm	84x84x54
Net weight, Kgs	Flush: 0.17, Surface: 0.22
Colour/Finish	White
Material	ABS Moulded
Mounting	Flush and Surface

VCT25R



Tri-wire restoration via remote relay

1. Set function selector to "T".
2. Connect amplifier output to "X", "Z" and "Y" as shown on the diagram.

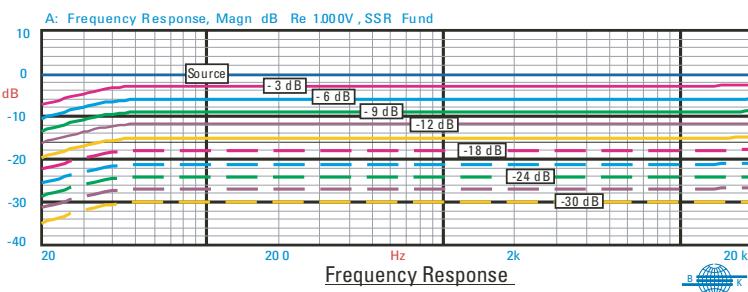


Two wire relay controlled restoration

1. Set function selector to "N", pre-set restoration sound level (1=0, 2=-3, 3=-6dB).
2. Connect amplifier output to "X" and "Y", 24 Vdc to " - RLY+" as shown on the diagram.

Dual amplifier sound restoration

1. Set function selector to "D".
2. Connect program amplifier output to "X" and "Y", paging amplifier to " - ALM+", 24 Vdc to " - RLY+" as shown on the diagram.



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LOUDSPEAKER VOLUME CONTROL



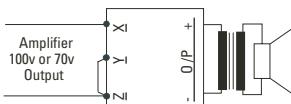
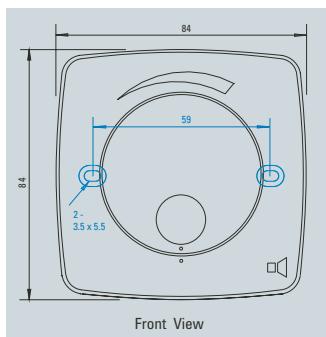
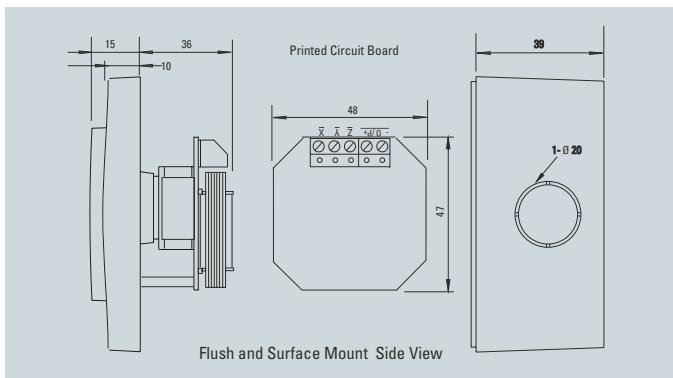
• VCT25

Technical Specifications

Rated power 100 volt/70.7 volt line, Watts	25 /12
Transformer output steps@ 100 volt line, Volts	100/70.7/50/35.36/25/17.68/ 12.50/8.84/6.25/4.42/3.12/OFF
Transformer output steps@ 70.7 volt line, Volts	70.7/50/35.36/25/17.68/12.50/ 8.84/6.25/4.42/3.12/2.21/OFF
Attenuation Per Step, dB	3
Total Attenuation, dB	30
Attenuation Positions	10 plus OFF
Insertion Loss, dB	0.4
Effective frequency range @1k Hz-1dB, Hz	40–20,000
Dimensions, front & depth, mm	84 x 84 x 54
Net weight, Kgs	Flush: 0.15, Surface: 0.20
Colour/Finish	White
Material	ABS Moulded
Mounting	Flush and Surface

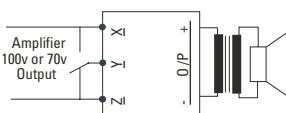
VCT25

CE



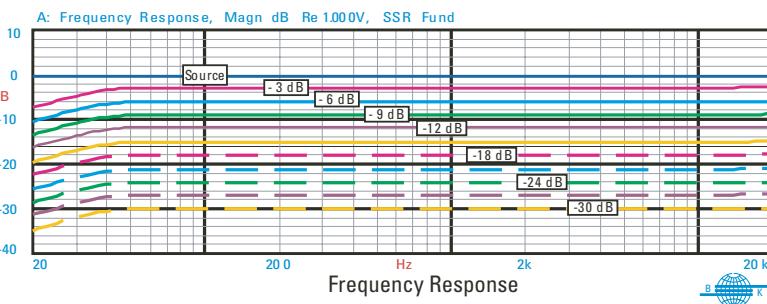
Standard connection

1. Short "Y" and "Z".
2. Connect as shown on the diagram.



Tri-wire restoration via remote relay

1. Connect amplifier output to "X", "Z" and "Y" as shown on the diagram.



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WITH STROBE

Technical Specifications

Loudspeaker

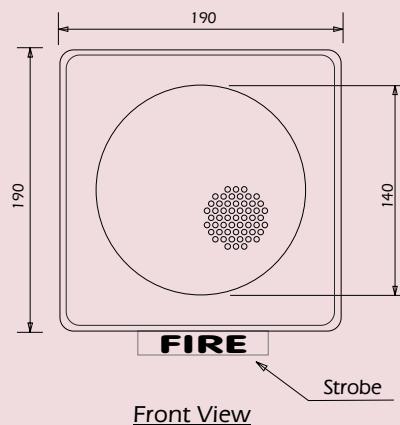
Rated power, Watts	6
Transformer tappings 100 volt line, Watts	6 / 3 / 1.5 / 0.75 / 0.25
Transformer Impedance , Ohms	1.67K / 3.33K / 6.66K / 13.3K / 40K
70.7 volt line, Watts	3 / 1.5 / 0.75 / 0.375 / 0.125
Driver impedance, Ohms	8
Effective frequency range, Hz (BS6840)	200 - 18,000
S.P.L. ,@ 1m, 1watt, dB	92
S.P.L. ,@Full power/ 1m, dB	99
Dispersion at 1,000 Hz, Degrees	140
Directivity Q factor, 1k Hz	4.2
Dimensions front and depth, mm	190 x 190 x 75
Net weight, Kgs	1.65
Colour / Finish	White, RAL9016
Material	Steel
Mounting	Screw



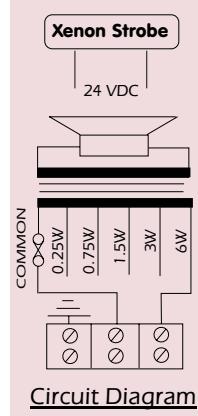
BS5839 Part 8 Compliant

Xenon Strobe

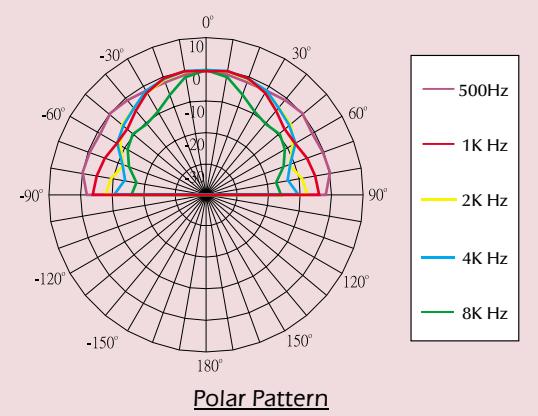
Power Output,, Watts	1
Voltage, DC Volts	24
Current Consumption, ma	55
Flash Rate per Minute	60
Operating Temperature, °C	-20 to +50
Dimensions front and depth, mm	80 x 30 x 20
Colour	Clear
Material	Plastic
Xenon Type	Tube



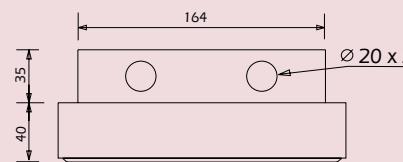
Front View



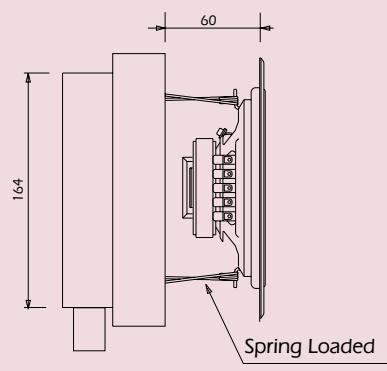
Circuit Diagram



Polar Pattern

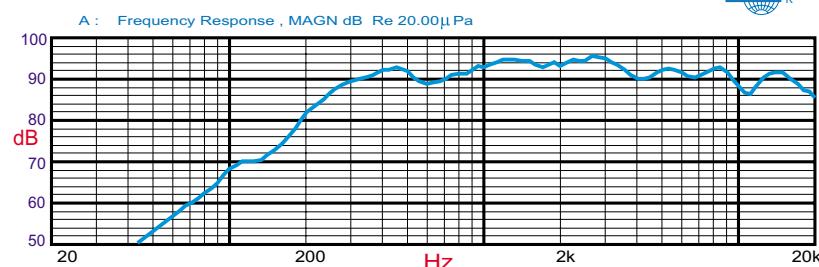
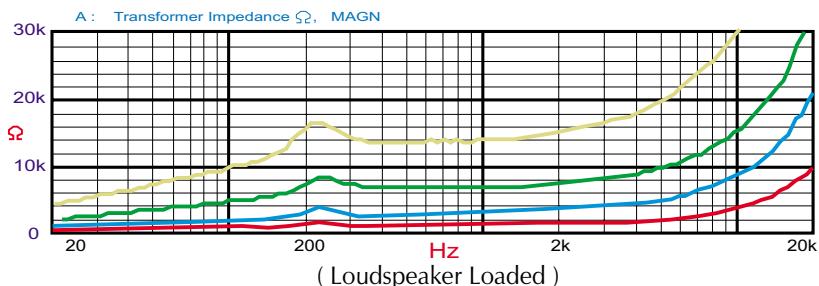


Top View



unit: mm

EASE and CATT data are available on request



VANDALPROOF METAL CABINET LOUDSPEAKERS



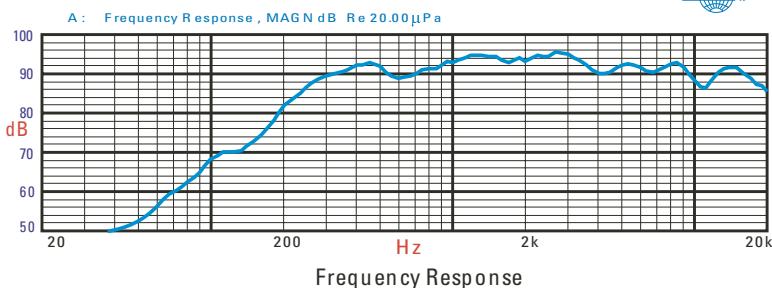
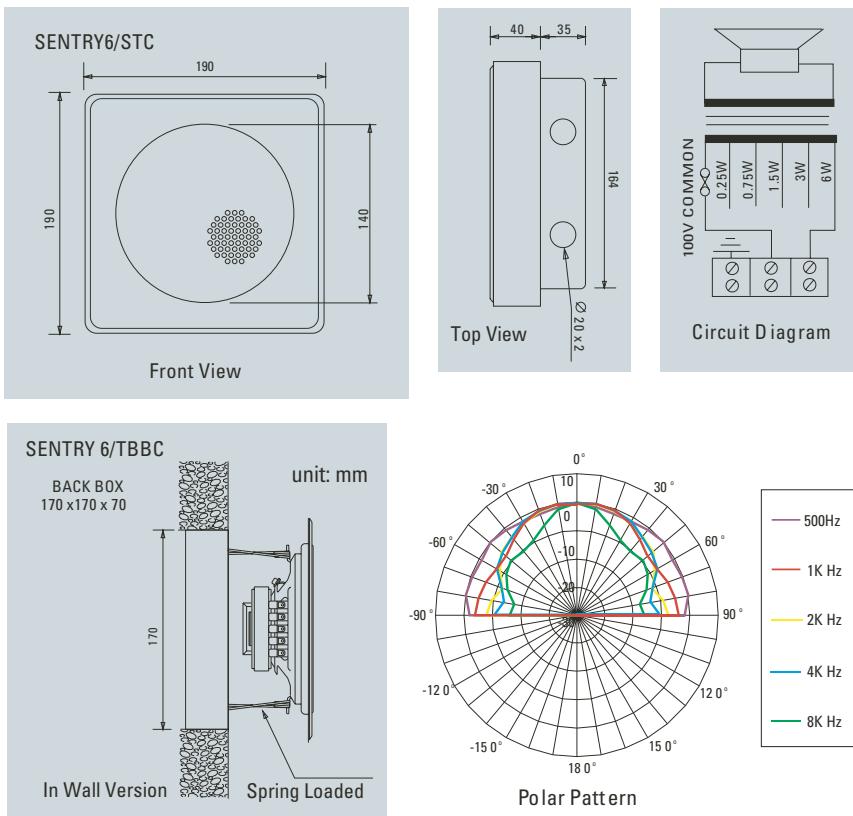
• SENTRY6/STC • SENTRY6/TBBC

Technical Specifications

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 (BS6840)	200 – 18,000
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10 kHz	87
S.P.L. @ Full power Octave Bandwidth, dB	94
Acoustic Power (dB-PWL@1 watt) 1 k/2kHz, dB	84 / 84
Dispersion at 1k/2k Hz, Degrees	140/110
Directivity Axial Q factor, 1 k/2kHz	4.2/6.7
Dimensions, front & depth, mm	190 x 190 x 75
Net weight, Kgs	1.8
Colour/Finish	White RAL9016
Material	Steel Front, Die cast back box
Mounting	Screw
Flush Mounted Version Available	SENTRY6/TBBC
BS5839 Part 8 voice alarm compliant	

EASE, CATT, ULYSSES and Architectural specifications are supplied on the disc inserted at the back of this folder
Manufacturer reserves the right to alter specifications without notice – September 2003

SENTRY6/STC SENTRY6/TBBC



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VANDALPROOF METAL CABINET LOUDSPEAKERS



• SENTRY6/RTC

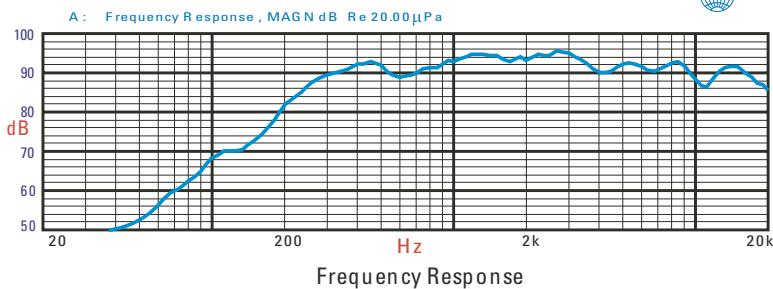
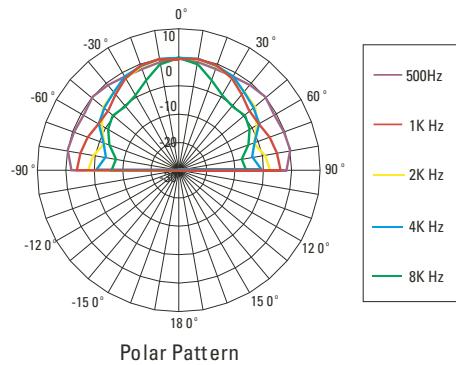
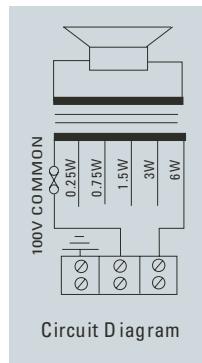
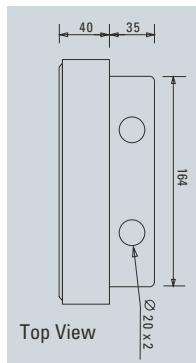
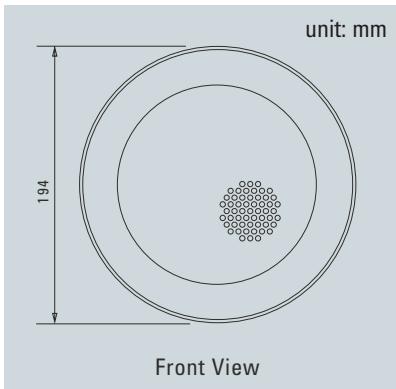
Technical Specifications

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 (BS6840)	200 – 18,000
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10 kHz	87
S.P.L. @ Full power Octave Bandwidth, dB	94
Acoustic Power (dB-PWL@1 watt) 1 k/2kHz, dB	84 / 84
Dispersion at 1k/2k Hz, Degrees	140/110
Directivity Axial Q factor, 1 k/2kHz	4.2/6.7
Dimensions, front & depth, mm	194 x 75 x 75
Net weight, Kgs	1.8
Colour/Finish	White RAL9016
Material	Steel Front, Die cast back box
Mounting	Screw

BS5839 Part 8 voice alarm compliant

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SENTRY6/RTC



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VANDALPROOF BI-DIRECTIONAL METAL CABINET LOUDSPEAKER

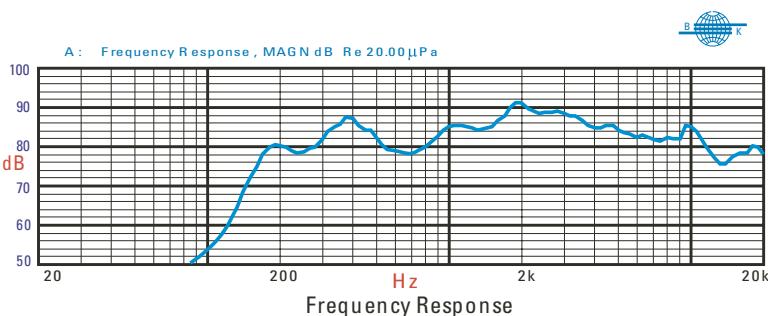
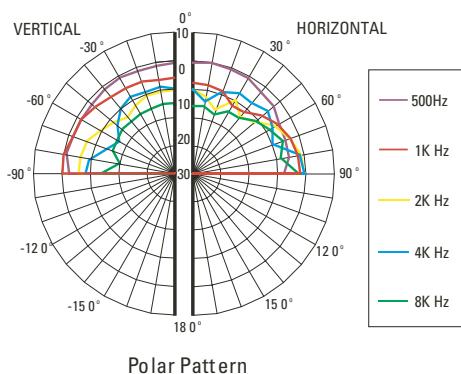
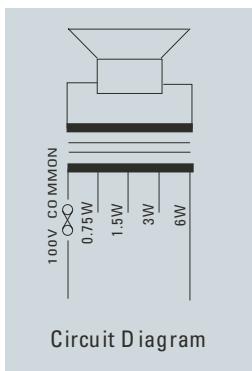
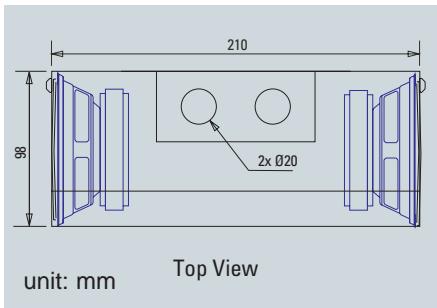
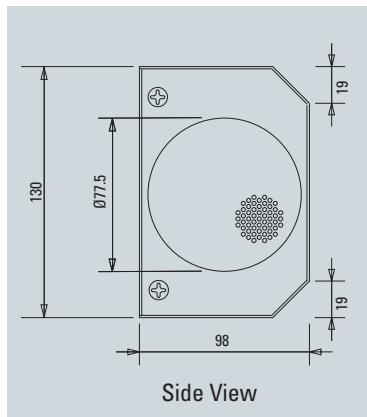


• SENTRY6/BDTC

Technical Specifications

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	4 (single driver:8)
Effective frequency range, Hz (BS6840)	125 – 12,000
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10kHz	88
S.P.L. @ Full power Octave Bandwidth, dB	96
Acoustic Power (dB-PWL@1 watt) 1k/2kHz, dB	90 / 89
Dispersion at 1k/2k Hz, Degrees	110/120
Directivity Axial Q factor, 1k/2kHz	0.6/0.7
Dimensions, front & depth, mm	210 x 130 x 98
Net weight, Kgs	2
Colour/Finish	White RAL9016
Material	Steel
Mounting	Screw
BS5839 Part 8 voice alarm compliant	

SENTRY6/BDTC



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VANDALPROOF METAL CABINET LOUDSPEAKER

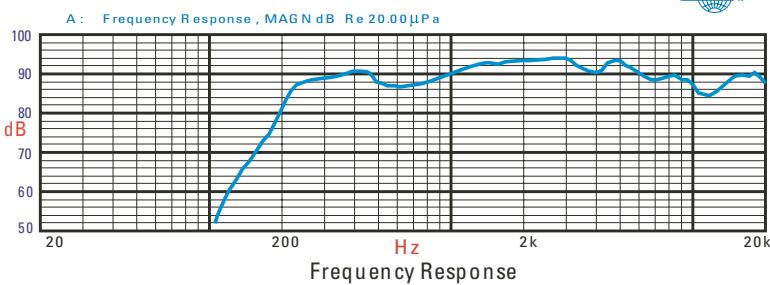
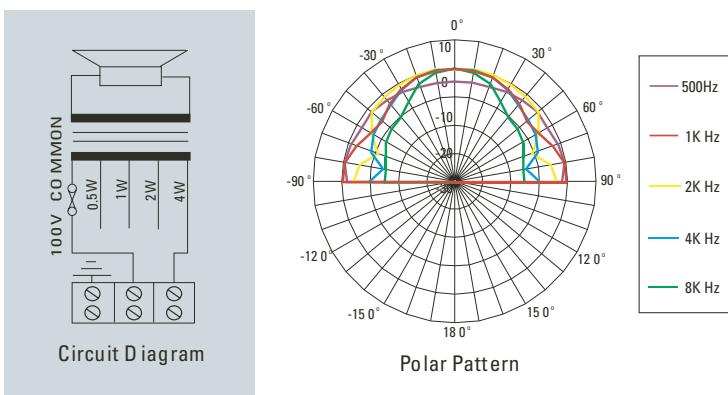
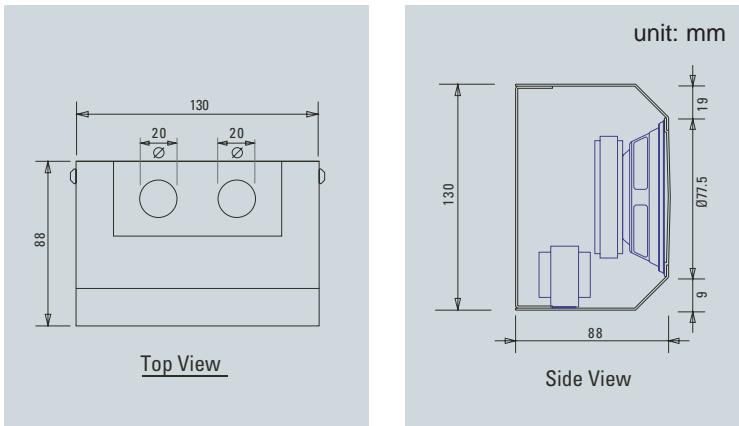


• SENTRY4/STC

Technical Specifications

Rated power, Watts	4
Tappings 100 volt line, Watts	4/2/1/0.5
Transformer Impedance, Ohms, 100V	2.5k/5k/10k/20k
Tappings 70.7 volt line, Watts	2/1/0.5/0.25
Driver impedance, Ohms	8
Effective frequency range, Hz (BS6840)	170–20,000
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10 kHz	87
S.P.L. @ Full power Octave Bandwidth, dB	93
Acoustic Power (dB-PWL@1 watt) 1 k/2kHz, dB	85 / 86
Dispersion at 1k/2k Hz, Degrees	110/120
Directivity Axial Q factor, 1 k/2kHz	3.2/3.8
Dimensions, front & depth, mm	130 x 130 x 88
Net weight, Kgs	1.2
Colour/Finish	White RAL9016
Material	Steel
Mounting	Screw
BS5839 Part 8 voice alarm compliant	

SENTRY4/STC



Penton UK Ltd

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ROUND METAL CEILING LOUDSPEAKERS



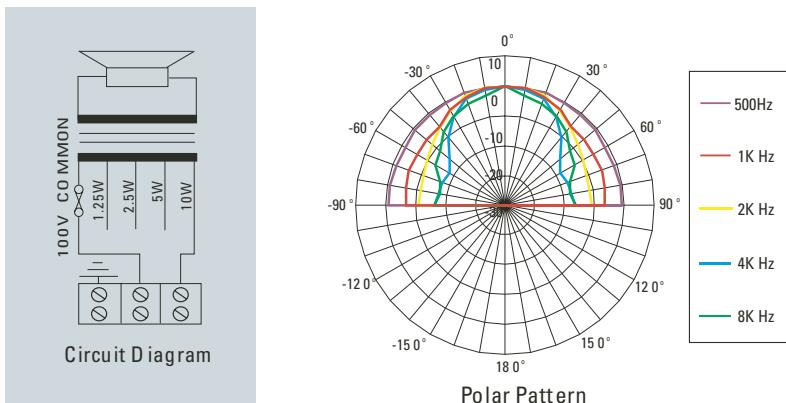
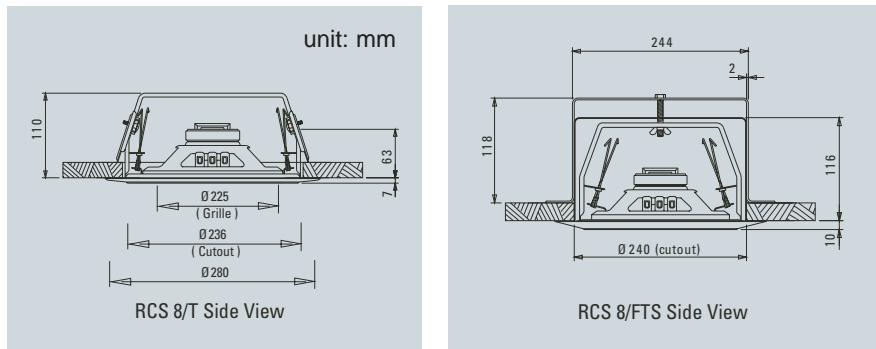
• RCS8/T • RCS8/FTS

Technical Specifications

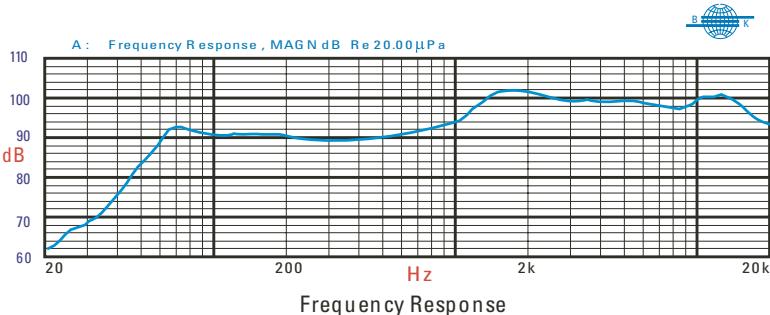
Rated power, Watts	10
Tappings 100 volt line, Watts	10/5/2.5/1.25
Transformer Impedance, Ohms, 100V	1k/2k/4k/8k
Tappings 70.7 volt line, Watts	5/2.5/1.25/0.625
Driver impedance, Ohms	8
Effective frequency range, Hz (BS6840)	70 – 17,000
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10 kHz	94
S.P.L. @ Full power Octave Bandwidth, dB	104
Acoustic Power (dB-PWL@1 watt) 1 k/2kHz, dB	89 / 90
Dispersion at 1k/2k Hz, Degrees	RCS8/T: 176/ 120 RCS8/FTS: 176/120
Directivity Axial Q factor, 1 k/2kHz	RCS8/T: 2.7/6.7 RCS8/FTS: 3.6/7.8
Dimensions, diameter, mm	Ø280
Net weight, Kgs	RCS8/T: 1.30, RCS8/FTS: 2.5
Colour/Finish	White RAL9016
Material	Steel
Mounting	Torsion springs
Cut-out, mm	RCS8/T: Ø236 RCS8/FTS: Ø240
RCS8/FTS is BS5839 Part 8 compliant	

EASE, CATT, ULYSSES and Architectural specifications are supplied on the disc inserted at the back of this folder
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RCS8/T RCS8/FTS



CE



Penton UK Ltd
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ROUND CO-AXIAL METAL CEILING LOUDSPEAKERS



• RCS8/TCOAX

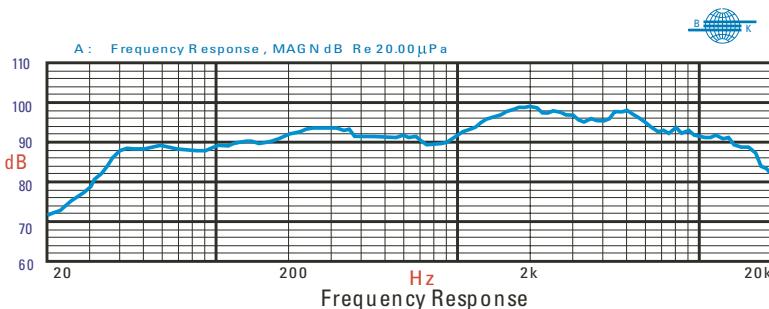
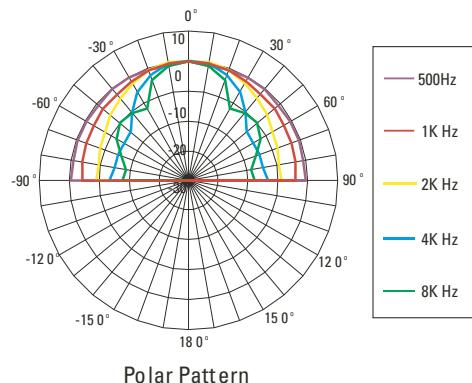
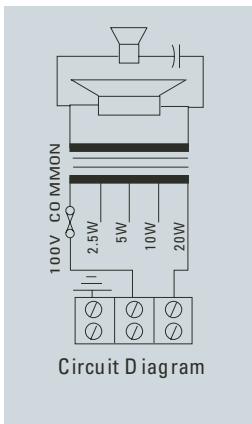
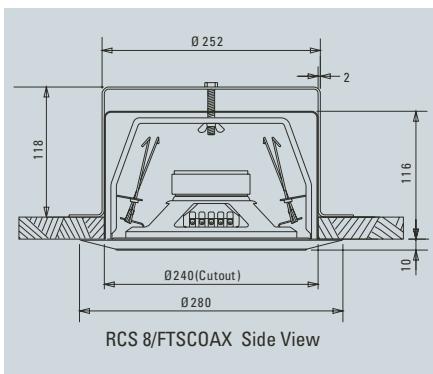
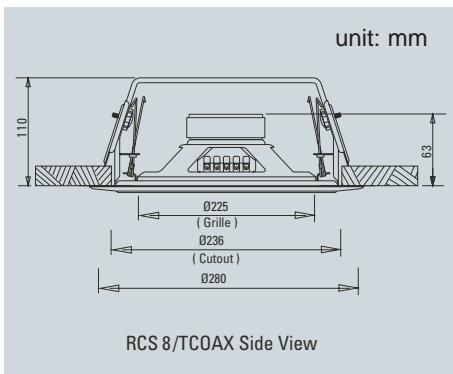
• RCS8/FTSCOAX

Technical Specifications

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 (BS6840)	50 – 20,000
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10 kHz	94
S.P.L. @ Full power Octave Bandwidth, dB	107
Acoustic Power (dB-PWL@1 watt) 1 k/2kHz, dB	88 / 89
Dispersion at 1k/2k Hz, Degrees	RCS8/TCOAX: 176/120 RCS8/FTSCOAX: 160/90
Directivity Axial Q factor, 1k/2k Hz	RCS8/TCOAX: 3.0 /6.5 RCS8/FTSCOAX: 5.5/8.6
Dimensions, diameter, mm	Ø280
Net weight, Kgs	RCS8/TCOAX: 1.85 RCS8/FTSCOAX: 2.93
Colour/Finish	White RAL9016
Material	Steel
Mounting	Torsion springs
Cut-out, mm	RCS8/TCOAX: Ø236 RCS8/FTSCOAX: Ø240
RCS8/FTSCOAX is BS5839 Part 8 voice alarm compliant	

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RCS8/TCOAX RCS8/FTSCOAX



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ROUND METAL CEILING LOUDSPEAKERS

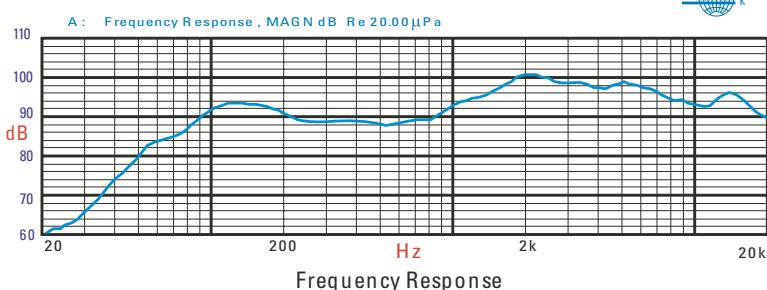
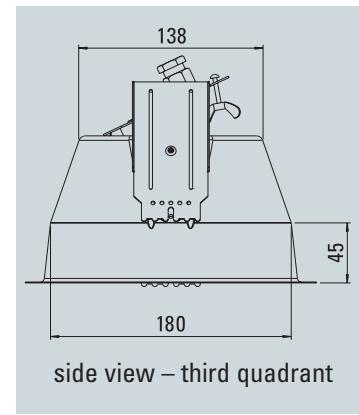
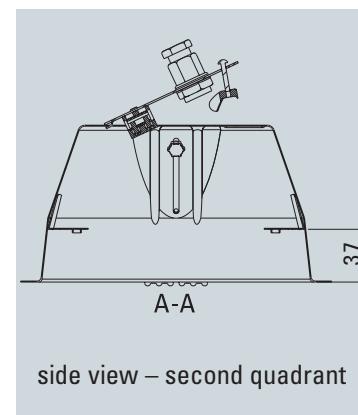
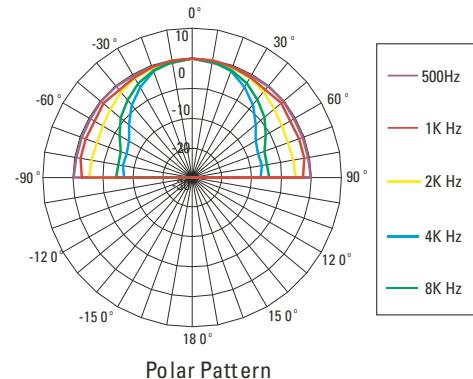
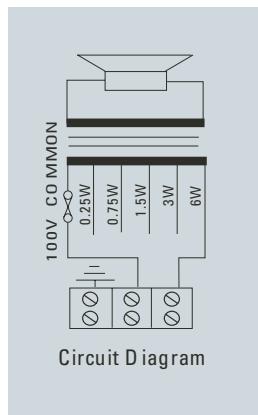
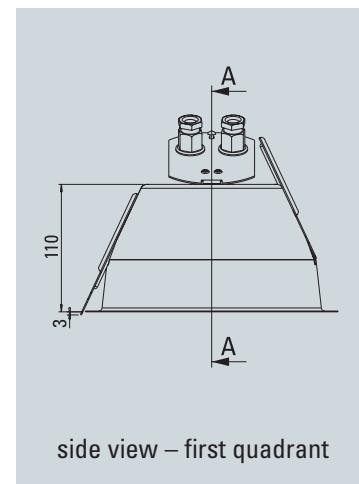
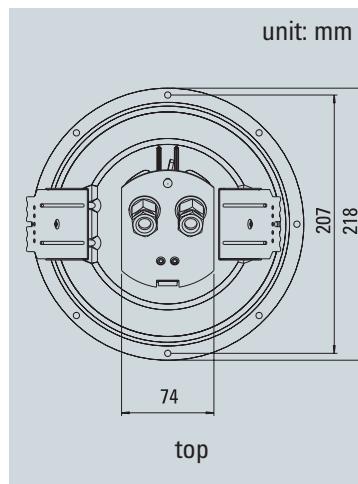
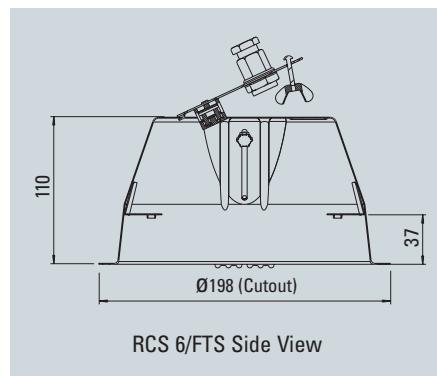
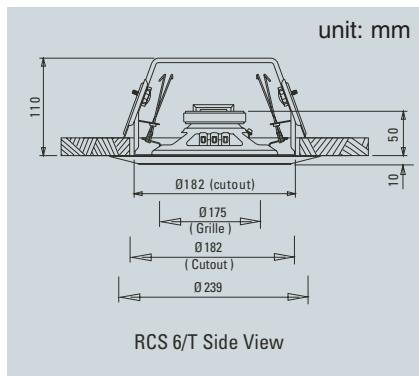


• RCS6/T • RCS6/FTS

Technical Specifications

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 (BS6840)	85 – 18,500
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10 kHz	92
S.P.L. @ Full power Octave Bandwidth, dB	97
Acoustic Power (dB-PWL@1 watt) 1 k/2kHz, dB	88 / 90
Dispersion at 1k/2kHz, Degrees	RCS6/T: 180/180 RCS6/FTS: 180/180
Directivity Axial Q factor, 1 k/2kHz	RCS6/T: 2.1/7.1 RCS6/FTS: 2.1/6.5
Dimensions, diameter, mm	Ø239
Net weight, Kgs	RCS6/T: 1.10, RCS6/FTS: 1.90
Colour/Finish	White RAL9016
Material	Steel
Mounting	Torsion springs
Cut-out, mm	RCS6/T: Ø182 RCS6/FTS: Ø198
RCS6/FTS is BS5839 Part 8 voice alarm compliant	

RCS6/T RCS6/FTS



• PEN5017 Firedome

This patented fire dome has been designed for ease of installation offering 1st and 2nd fit. The unique removable top plate on the dome comes complete with ceramic termination that enables the installer to make all cable connections on a flat plate rather than inside the frugal space offered on a standard fire dome. Once the cabling has been completed the supply line can be checked for continuity/earth faults without damaging the loudspeaker. The ceiling loudspeaker can be connected in the knowledge that the cables are sound.



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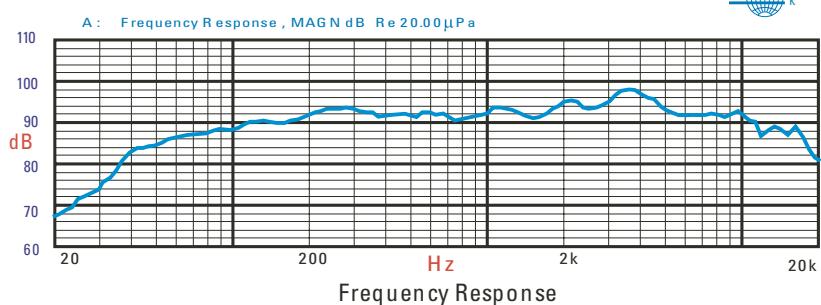
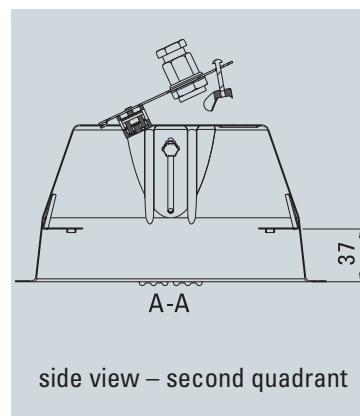
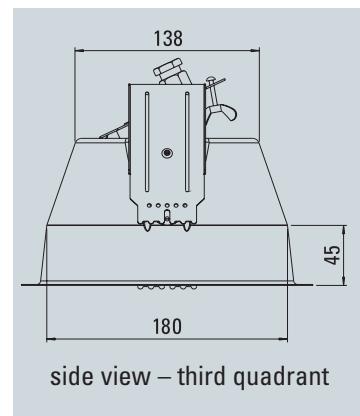
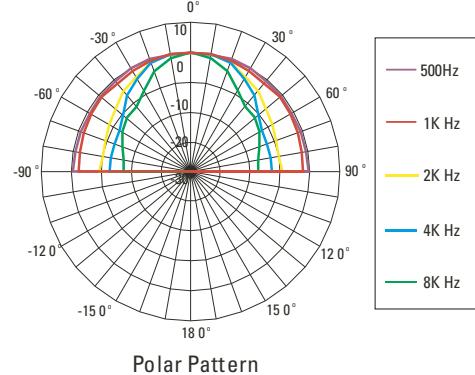
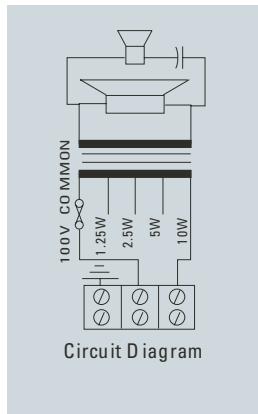
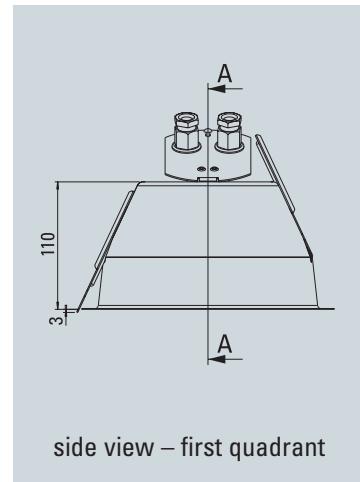
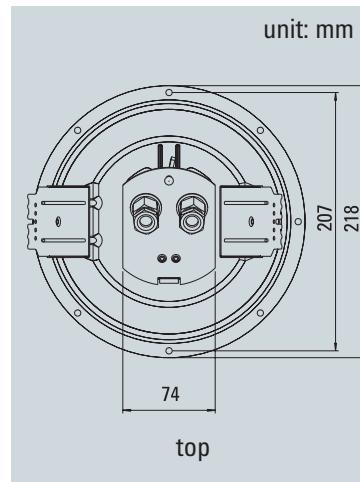
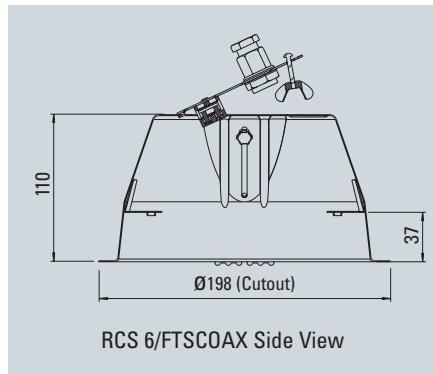
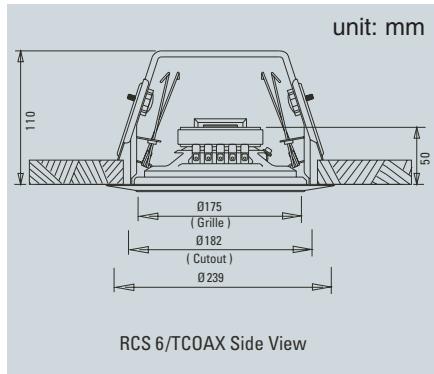
ROUND CO-AXIAL METAL CEILING LOUDSPEAKERS



• RCS6/TCOAX • RCS6/FTSCOAX Technical Specifications

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 (BS6840)	80 – 20,000
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10kHz	92
S.P.L. @ Full power Octave Bandwidth, dB	102
Acoustic Power (dB-PWL@1 watt) 1k/2kHz, dB	89 / 88
Dispersion at 1k/2k Hz, Degrees	RCS6/TCOAX: 180/140 RCS6/FTSCOAX: 180/140
Directivity Axial Q factor, 1k/2kHz	RCS6/TCOAX: 2.2 / 4.3 RCS6/FTSCOAX: 2.3 / 4.2
Dimensions, diameter, mm	Ø239
Net weight, Kgs	RCS6/TCOAX: 1.25 RCS6/FTSCOAX: 2.06
Colour/Finish	White RAL9016
Material	Steel
Mounting	Torsion springs
Cut-out, mm	RCS6/TCOAX : Ø182 RCS6/FTSCOAX : Ø198
RCS6/FTSCOAX is BS5839 Part 8 voice alarm compliant	

RCS6/TCOAX RCS6/FTSCOAX



• PEN5017 Firedome

This patented fire dome has been designed for ease of installation offering 1st and 2nd fit. The unique removable top plate on the dome comes complete with ceramic termination that enables the installer to make all cable connections on a flat plate rather than inside the frugal space offered on a standard fire dome. Once the cabling has been completed the supply line can be checked for continuity/earth faults without damaging the loudspeaker. The ceiling loudspeaker can be connected in the knowledge that the cables are sound.



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ROUND METAL CEILING LOUDSPEAKERS

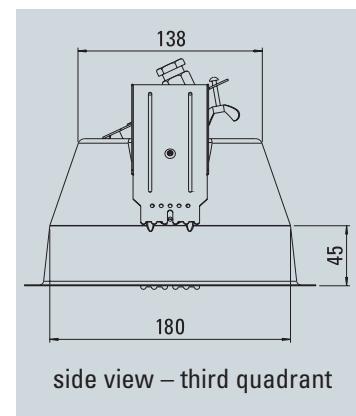
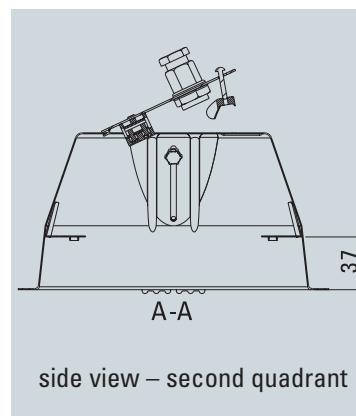
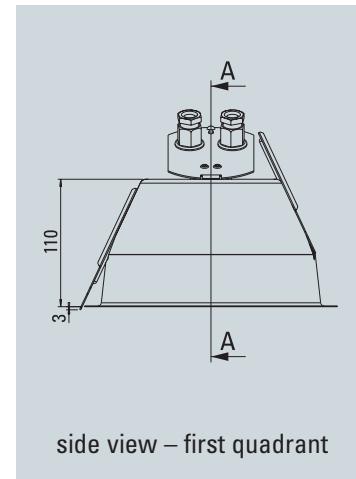
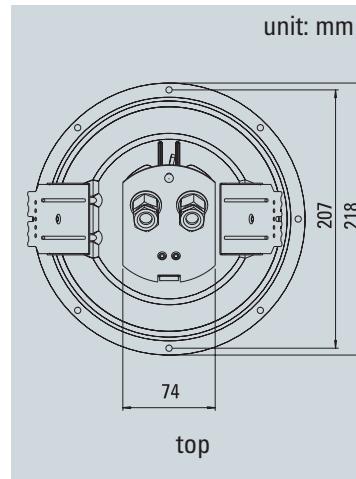
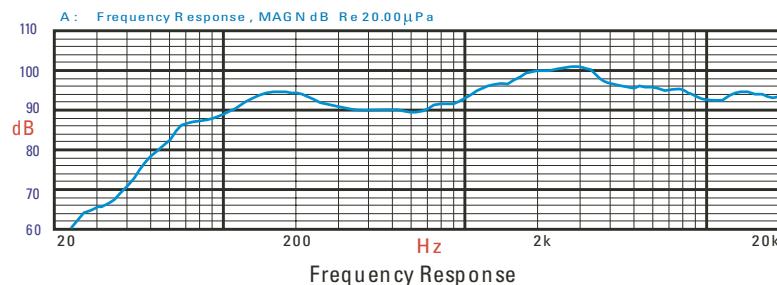
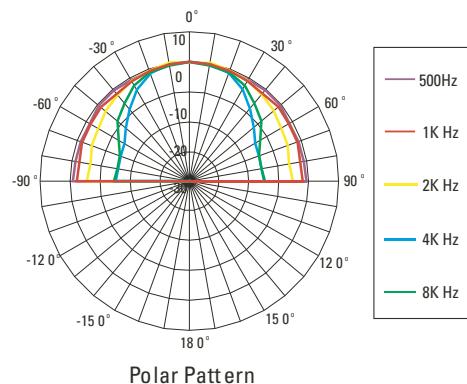
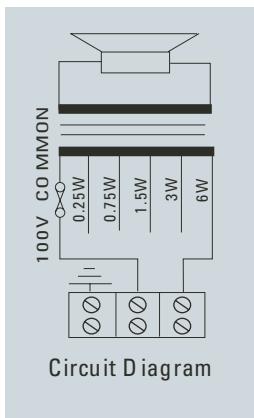
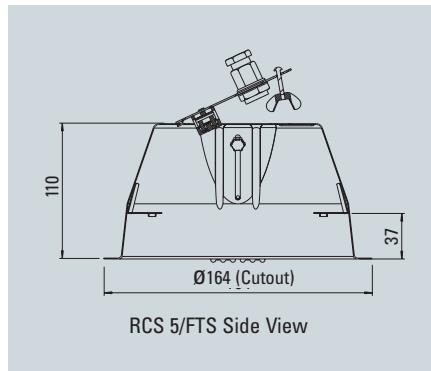
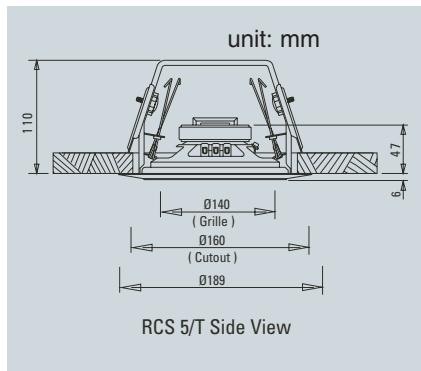


• RCS5/T • RCS5/FTS

Technical Specifications

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 (BS6840)	100–17,500
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10 kHz	92
S.P.L. @ Full power Octave Bandwidth, dB	95
Acoustic Power (dB-PWL@1 watt) 1 k/2kHz, dB	92 / 93
Dispersion at 1k/2k Hz, Degrees	RCS5/T: 180/ 160 RCS5/FTS: 180/120
Directivity Axial Q factor, 1k/2kHz	RCS5/T: 2.3/4.6 RCS5/FTS: 1.9/6.6
Dimensions, diameter, mm	Ø189
Net weight, Kgs	RCS5/T: 1.0, RCS5/FTS: 1.5
Colour/Finish	White RAL9016
Material	Steel
Mounting	Torsion springs
Cut-out, mm	RCS5/T: Ø160 RCS5/FTS: Ø164
RCS5/FTS is BS5839 Part 8 voice alarm compliant	

RCS5/T RCS5/FTS



• PEN5017 Firedome

This patented fire dome has been designed for ease of installation offering 1st and 2nd fit. The unique removable top plate on the dome comes complete with ceramic termination that enables the installer to make all cable connections on a flat plate rather than inside the frugal space offered on a standard fire dome. Once the cabling has been completed the supply line can be checked for continuity/earth faults without damaging the loudspeaker. The ceiling loudspeaker can be connected in the knowledge that the cables are sound.



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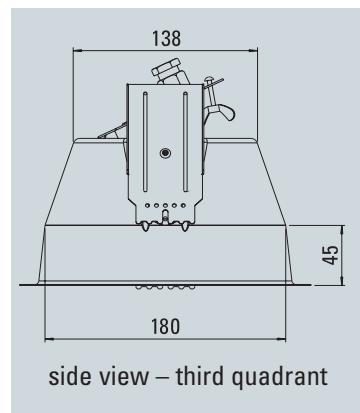
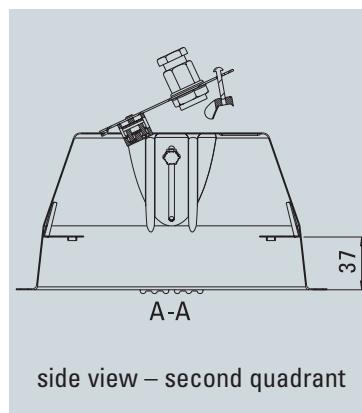
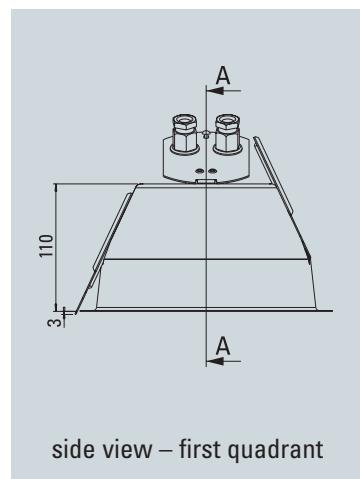
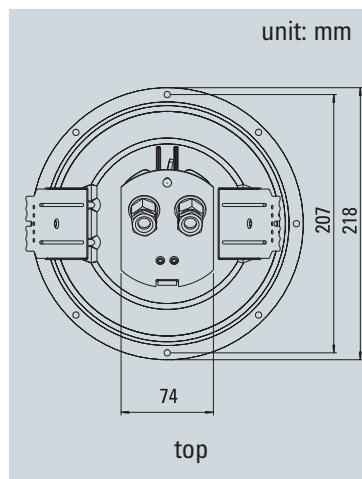
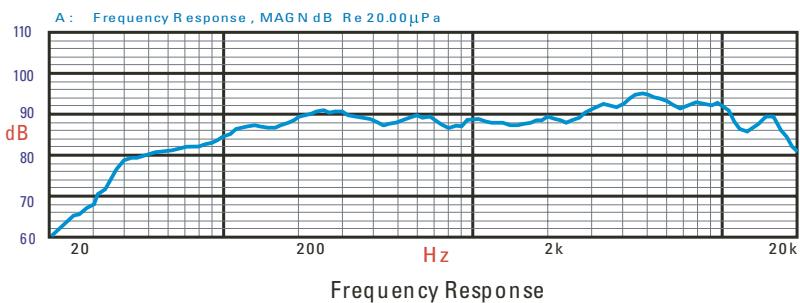
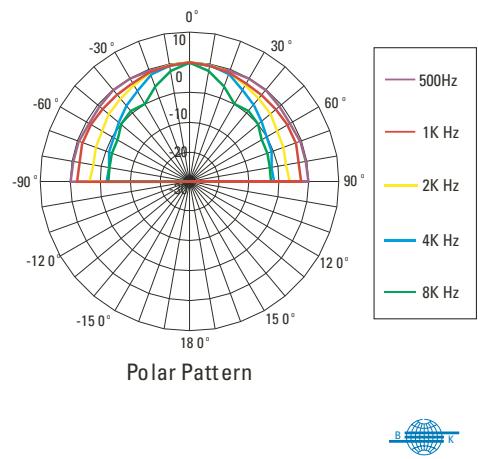
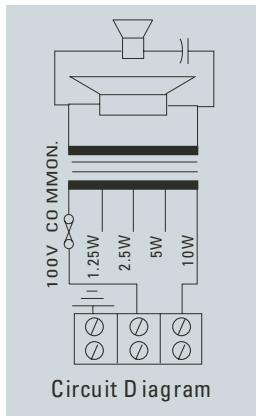
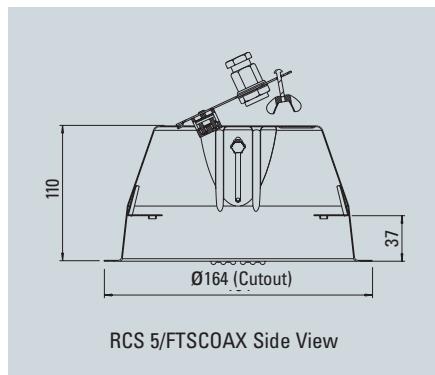
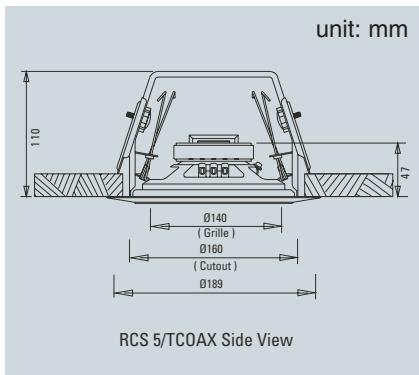
ROUND CO-AXIAL METAL CEILING LOUDSPEAKERS



• RCS5/TCOAX • RCS5/FTSCOAX Technical Specifications

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 (BS6840)	80–20,000
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) 1 k/2kHz, dB	88 / 86
Dispersion at 1k/2kHz, Degrees	RCS5/TCOAX: 180/180 RCS5/FTSCOAX: 180/160
Directivity Axial Q factor, 1k/2kHz	RCS5/TCOAX: 2.1/4.0 RCS5/FTSCOAX: 2.0/5.3
Dimensions, diameter, mm	Ø189
Net weight, Kgs	RCS5/TCOAX: 1.0 RCS5/FTSCOAX: 1.57
Colour/Finish	White RAL9016
Material	Steel
Mounting	Torsion springs
Cut-out, mm	RCS5/TCOAX: Ø160 RCS5/FTSCOAX: Ø164
RCS5/FTSCOAX is BS5839 Part 8 voice alarm compliant	

RCS5/TCOAX RCS5/FTSCOAX



• PEN5017 Firedome

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ROUND METAL CEILING LOUDSPEAKERS



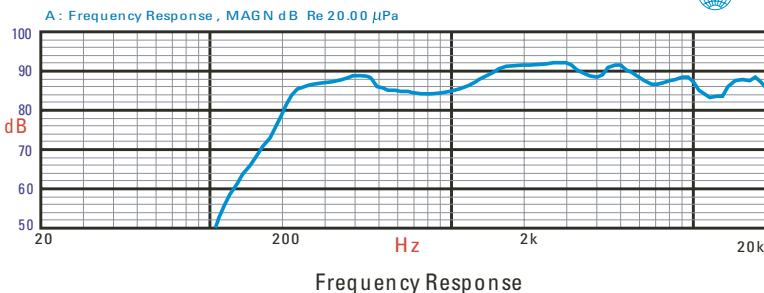
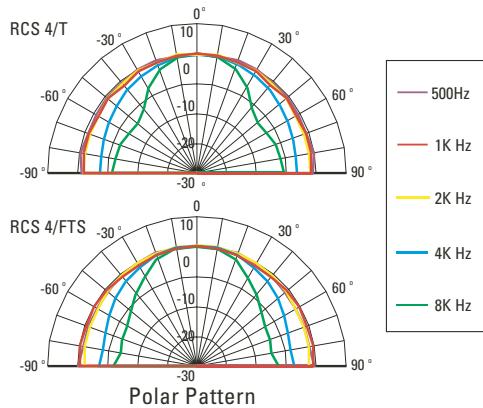
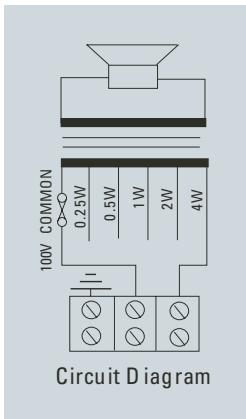
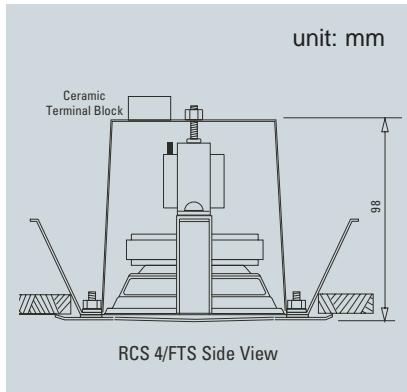
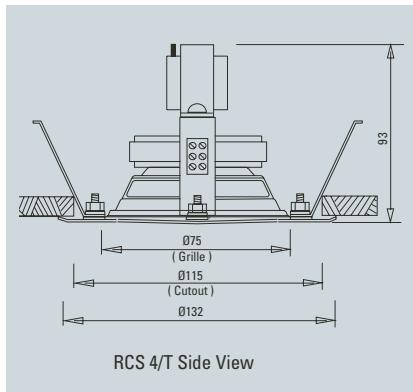
• RCS4/T • RCS4/FTS

Technical Specifications

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	220 – 16,500
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10 kHz	83
S.P.L. @ Full power Octave Bandwidth, dB	89
Acoustic Power (dB-PWL@1 watt) 1k/2k Hz	81 / 84
Dispersion at 1k/2k Hz, Degrees	RCS4/T: 140/180, RCS4/FTS: 140/180
Directivity Axial Q factor, 1k/2k Hz	RCS4/T: 1.90/2.20, RCS4/FTS: 1.70/2.20
Dimensions, diameter, mm	RCS4/T: Ø132, RCS4/FTS: Ø132
Net weight, Kgs	RCS4/T: 0.72, RCS4/FTS: 0.92
Colour/Finish	White RAL9016
Material	Steel
Mounting	Fixing Springs x 4 (stainless steel)
Cut-out, mm	RCS4/T: Ø115 RCS4/FTS: Ø115
RCS4/FTS is BS5839 Part 8 voice alarm compliant	

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RCS4/T RCS4/FTS

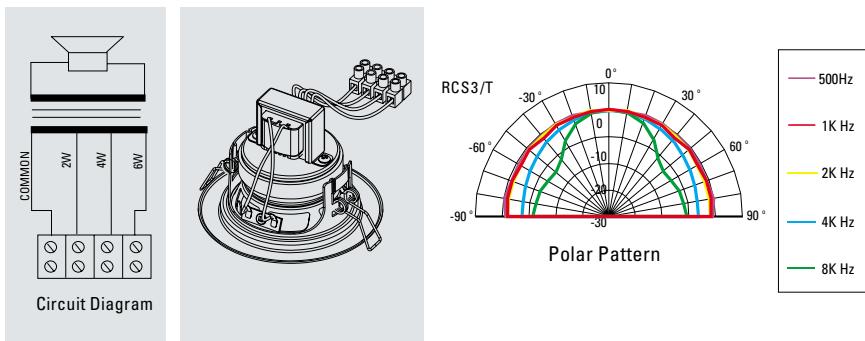
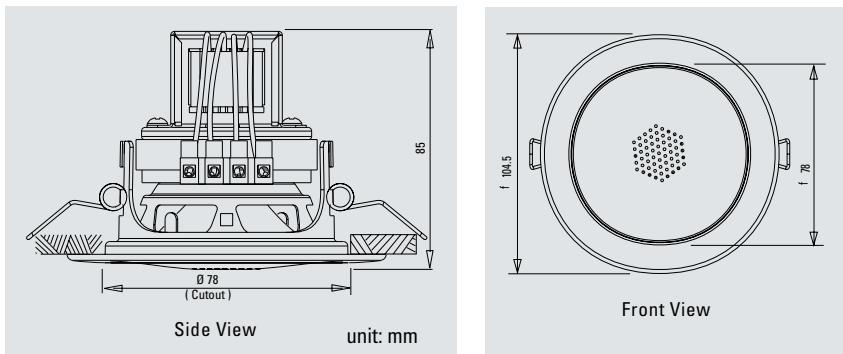


RCS3/T METAL CEILING LOUDSPEAKER, MINIATURE

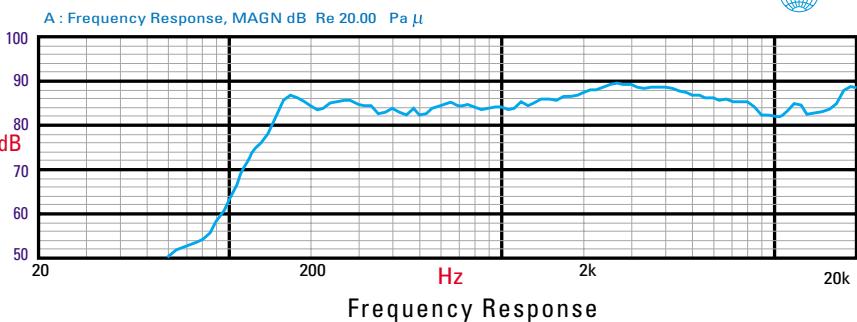


• RCS3/T	Technical Specifications
Rated power, Watts	6
Tappings 100 volt line, Watts	6 / 3 / 1.5 / 0.75 / 0.25
Transformer Impedance, Ohms, 100V	1.67k/3.33k/6.66k/13.3k/39.9k
Tappings 70.7 volt line, Watts	3 / 1.5 / 0.75 / 0.375 / 0.125
Driver impedance, Ohms	8
Effective frequency range, Hz (BS6840)	100~20,000
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10 kHz	87
S.P.L. @ Full power Octave Bandwidth, dB	94
Acoustic Power (dB-PWL@1 watt) 1 k/2kHz, dB	83/85
Dispersion at 1k/2k Hz, Degrees	180/180
Directivity Axial Q factor, 1k/2kHz	2.0/2.4
Dimensions, diameter, mm	Ø 104.5
Net weight, Kgs	0.49
Colour/Finish	White RAL9016
Material	Steel
Mounting	Twin Spring
Cut-out, mm	Ø 78

RCS3/T



CE



Penton UK Ltd

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MOULDED CABINET LOUDSPEAKER

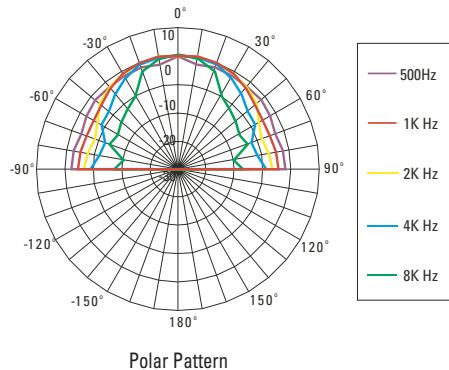
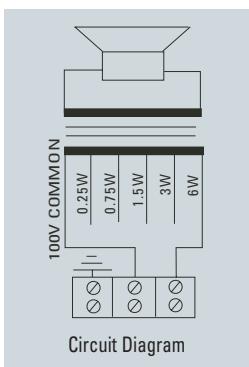
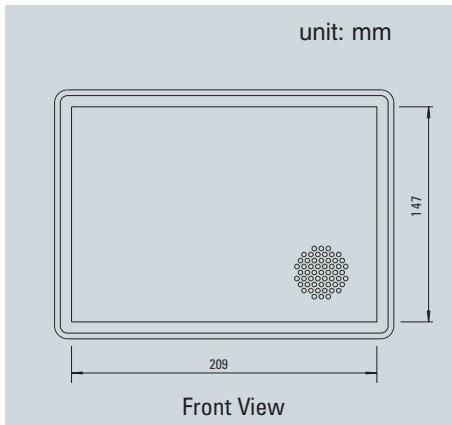
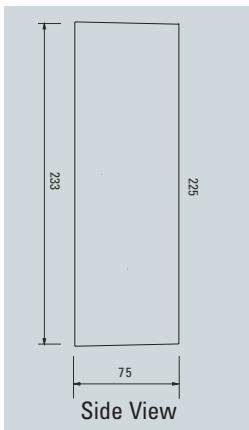


• PWC 6/T • PWC 6/TC

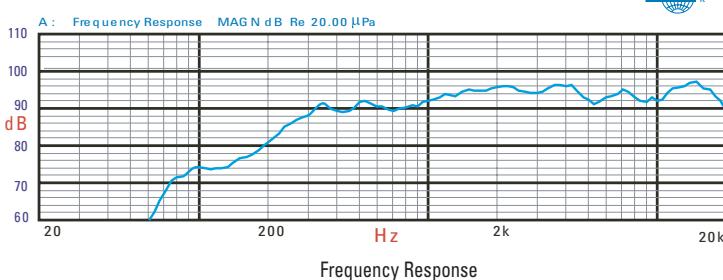
Technical Specifications

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 (BS6840)	220-18,500
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10 kHz	91
S.P.L. @ Full power Octave Bandwidth, dB	99
Acoustic Power (dB-PWL@1 watt) 1 k/2kHz, dB	90-92
Dispersion at 1k/2kHz, Degrees	180/120
Directivity Axial Q factor, 1 k/2kHz	3.7/4.8
Dimensions, front & depth, mm	233 x 171 x 75
Net weight, Kgs	1.04
Colour/Finish	White RAL9016
Material	ABS Plastic with UV inhibitors
Mounting	2 x Screws

PWC 6/T PWC 6/TC



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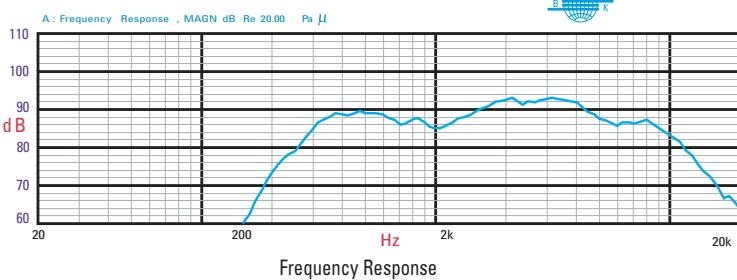
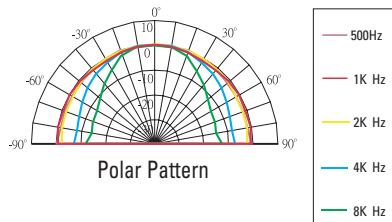
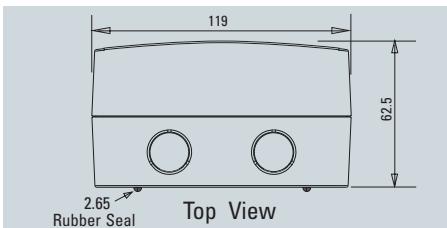
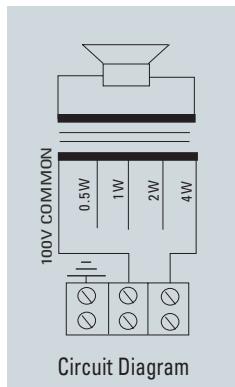
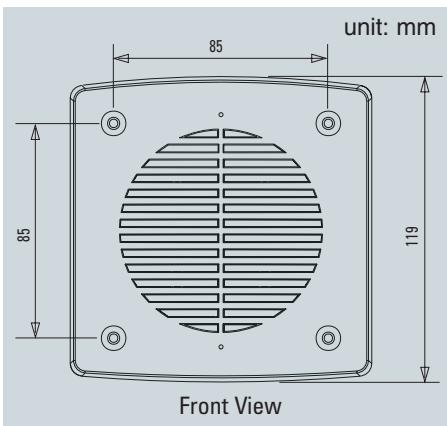
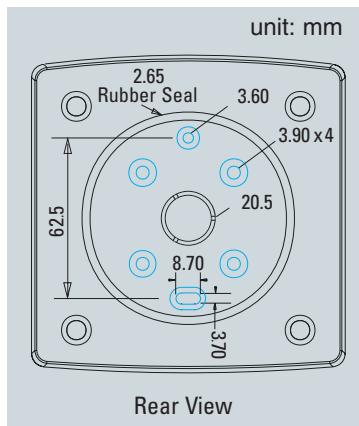


• PMC 4/T • PMC 4/TC

Technical Specifications

Rated power, Watts	4
Tappings 100 volt line, Watts	4/2/1/0.5
Transformer Impedance, Ohms, 100V	2.5k/5k/10k/20k
Tappings 70.7 volt line, Watts	1.25/2.5/5/10k
Driver impedance, Ohms	8
Effective frequency range, Hz (BS6840)	220-12,000
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10 kHz	85
S.P.L. @ Full power Octave Bandwidth, dB	90
Acoustic Power (dB-PWL@1 watt) 1 k/2kHz, dB	88-88
Dispersion at 1k/2kHz, Degrees	180/120
Directivity Axial Q factor, 1 k/2kHz	3.7/4.8
Dimensions, front & depth, mm	119 x 119 x 62.5
Net weight, Kgs	0.69
Colour/Finish	White RAL9016
Material	ABS Plastic with UV inhibitors
Mounting	4 x Screws

PMC 4/T PMC 4/TC



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WEATHERPROOF HORN LOUDSPEAKERS



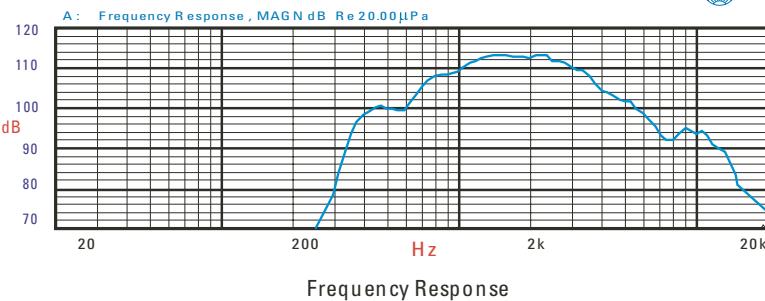
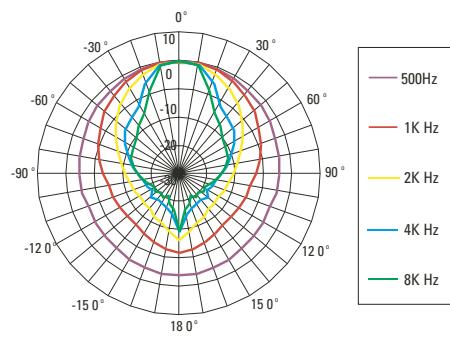
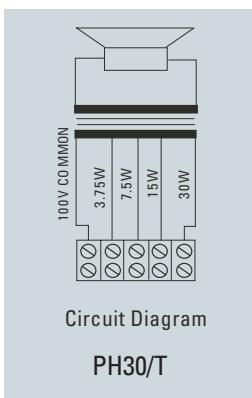
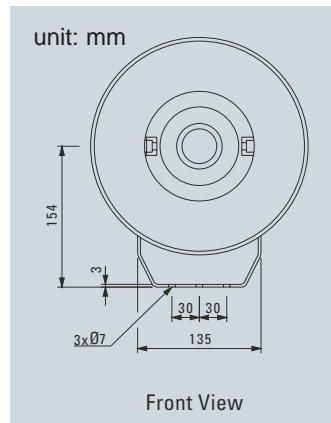
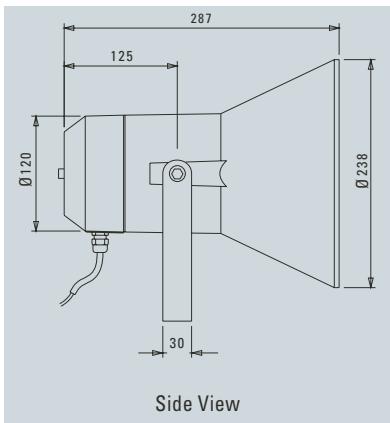
• PH30/T • PH30/TC

Technical Specifications

Rated power, Watts	30
Tappings 100 volt line, Watts	30/15/7.5/3.75
Transformer Impedance, Ohms, 100V	330/660/1.32k/2.64k
Tappings 70.7 volt line, Watts	15/7.5/3.75/1.875
Driver impedance, Ohms	20 or 8
Effective frequency range, Hz (BS6840)	330-8,000
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10 kHz	104
S.P.L. @ Full power Octave Bandwidth, dB	118
Acoustic Power (dB-PWL@1 watt) 1 kHz, dB	101 /100
Dispersion at 1k/2kHz, Degrees	110 / 80
Directivity Axial Q factor, 1 k/2kHz	6.20 / 15.1
Dimensions, front & depth, mm	Ø238 x 287
Net weight, Kgs	2.30
Colour/Finish	Grey RAL7035
Material	ABS plastic housing with UV inhibitors
Mounting	Stainless Steel U Bracket
IP Rating	66

'C' Version can be supplied as BS5839 Part 8 Voice Alarm compliant, on request

PH30/T PH30/TC



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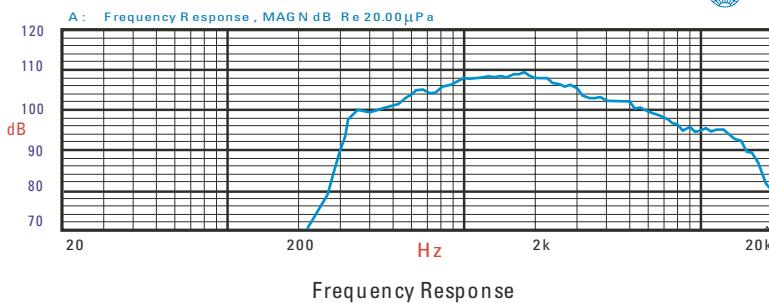
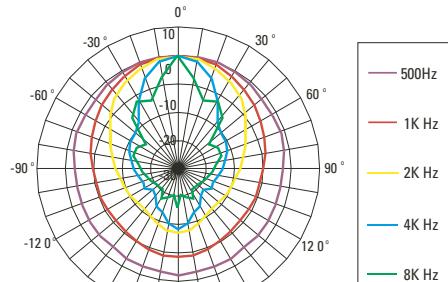
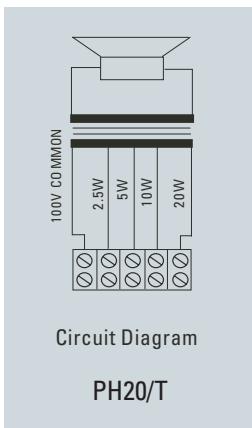
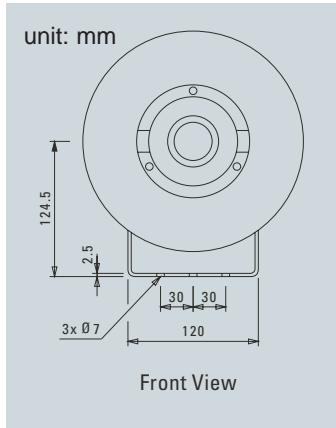
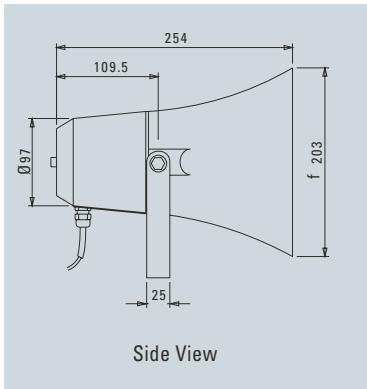
WEATHERPROOF HORN LOUDSPEAKERS



• PH20/T • PH20/TC	Technical Specifications
Rated power, Watts	20
Tappings 100 volt line, Watts	20/10/5/2.5
Transformer Impedance, Ohms, 100V	500/1k/2k/4k
Tappings 70.7 volt line, Watts	10/5/2.5/1.25
Driver impedance, Ohms	20 or 8
Effective frequency range, Hz (BS6840)	250-8,000
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10 kHz	101
S.P.L. @ Full power, Octave Bandwidth, dB	114
Acoustic Power (dB-PWL@1 watt) 1 kHz, dB	98 / 98
Dispersion at 1k/2kHz, Degrees	130 / 70
Directivity Axial Q factor, 1 k/2kHz	4.90 / 13.60
Dimensions, front & depth, mm	Ø203 x 254
Net weight, Kgs	1.90
Colour/Finish	Grey RAL7035
Material	ABS plastic housing with UV inhibitors
Mounting	Stainless Steel U Bracket
IP Rating	66
'C' Version can be supplied as BS5839 Part 8 Voice Alarm compliant, on request	

EASE, CATT, ULYSSES and Architectural specifications are supplied on the disc inserted at the back of this folder
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PH20/T PH20/TC



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WEATHERPROOF HORN LOUDSPEAKERS



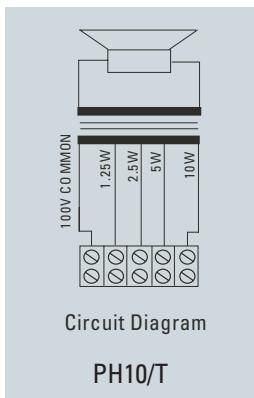
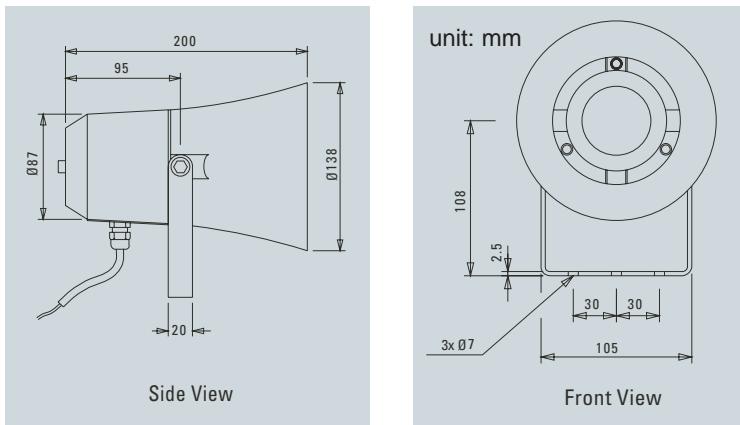
• PH10/T • PH10/TC

Technical Specifications

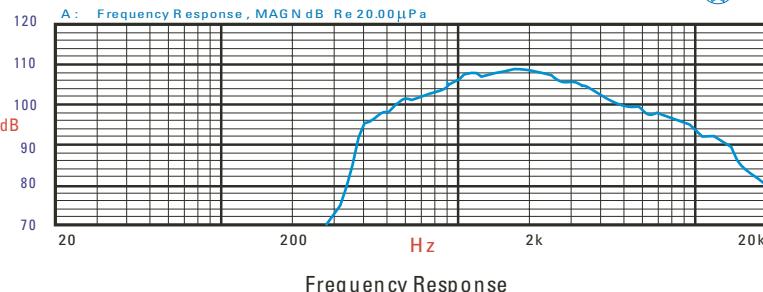
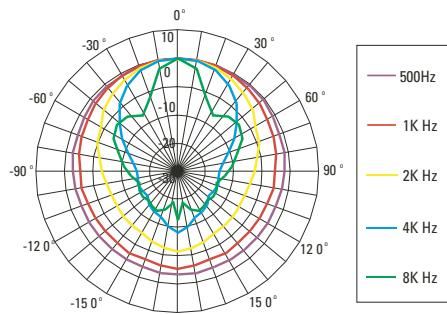
Rated power, Watts	10
Tappings 100 volt line, Watts	10/5/2.5/1.25
Transformer Impedance, Ohms, 100V	1k/2k/4k/8k
Tappings 70.7 volt line, Watts	5/2.5/1.25/0.625
Driver impedance, Ohms	20 or 8
Effective frequency range, Hz (BS6840)	400–8,000
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10 kHz	97
S.P.L. @ Full power Octave Bandwidth, dB	107
Acoustic Power (dB-PWL@1 watt) 1 k/2kHz, dB	95 / 97
Dispersion at 1k/2kHz, Degrees	160 / 110
Directivity Axial Q factor, 1 k/2kHz	2.80 / 6.60
Dimensions, front & depth, mm	Ø138 x 200
Net weight, Kgs	1.30
Colour/Finish	Grey RAL7035
Material	ABS plastic housing with UV inhibitors
Mounting	Stainless Steel U Bracket
IP Rating	66

'C' Version can be supplied as BS5839 Part 8 Voice Alarm compliant, on request

PH10/T PH10/TC



PH10/T



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ROUND PLASTIC CEILING LOUDSPEAKER



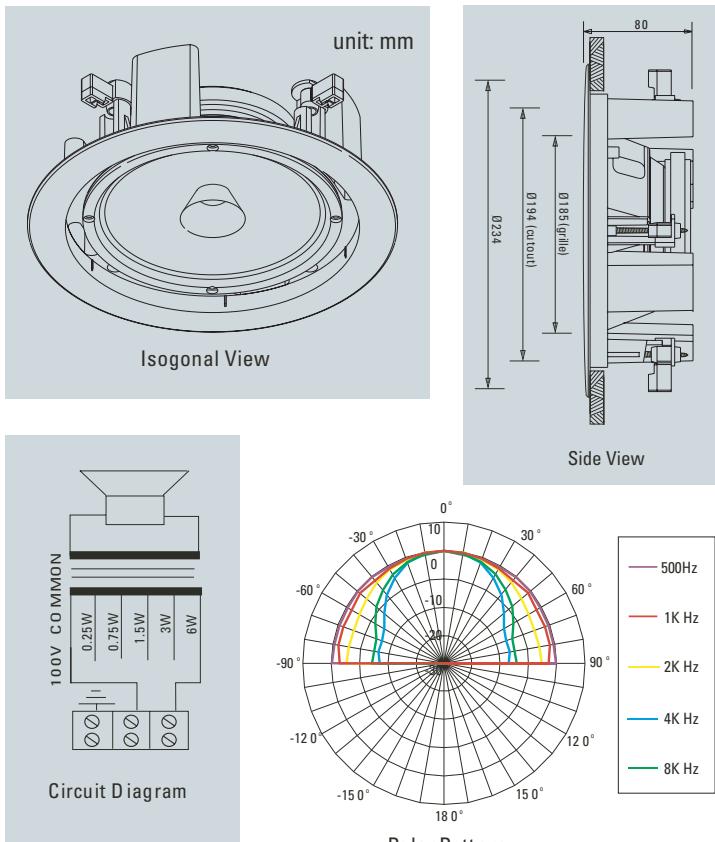
• PCL6/T

Technical Specifications

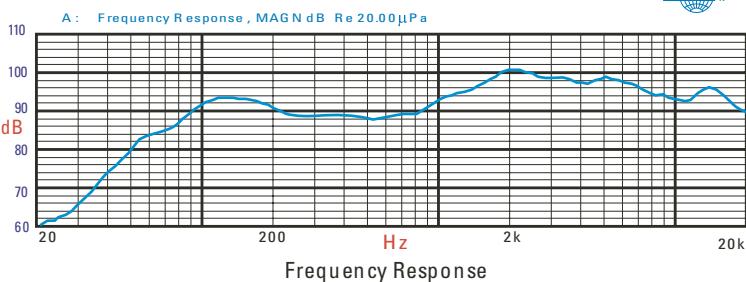
Rated power, Watts	6
Tappings 100 volt line, Watts	6/3/1.5/0.75/0.25
Transformer Impedance, Ohms, 100V	1.67k/3.33k/6.66k/13.3k/39.9K
Tappings 70.7 volt line, Watts	3/1.5/0.75/0.375/0.125
Driver impedance, Ohms	8
Effective frequency range, Hz (BS6840)	85 – 18,500
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10kHz	82
S.P.L. @ Full power Octave Bandwidth, dB	90
Acoustic Power (dB-PWL@1 watt) 1k/2kHz, dB	81 / 81
Dispersion at 1k/2k Hz, Degrees	180/120
Directivity Axial Q factor, 1k/2kHz	2.1/4.9
Dimensions, diameter, mm	Ø234
Net weight, Kgs	1.10
Colour/Finish	White
Material	Plastic Baffle ABS with UV inhibitors, Metal Driver Chassis & Grille
Mounting	Rotary compression clamps
Cut-out, mm	Ø194

EASE, CATT, ULYSSES and Architectural specifications are supplied on the disc inserted at the back of this folder
Manufacturer reserves the right to alter specifications without notice – September 2003

PCL6/T



CE



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ROUND PLASTIC CEILING LOUDSPEAKER



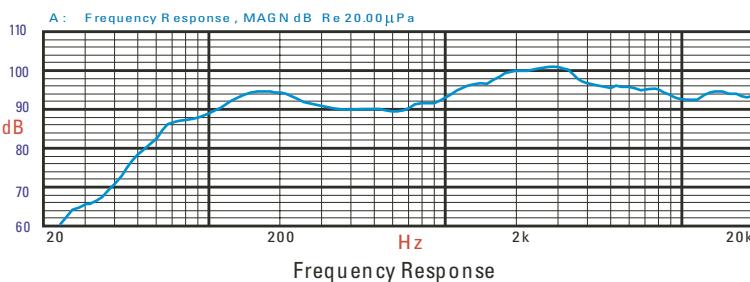
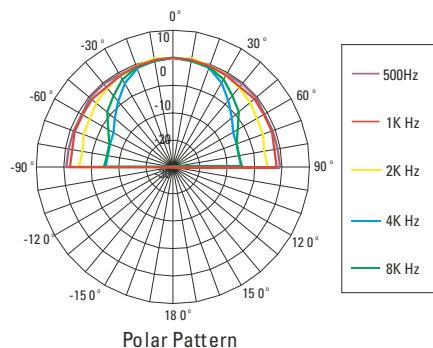
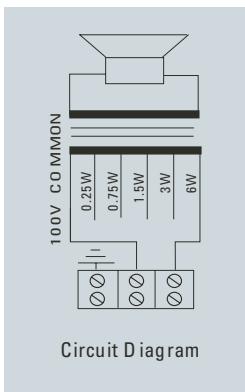
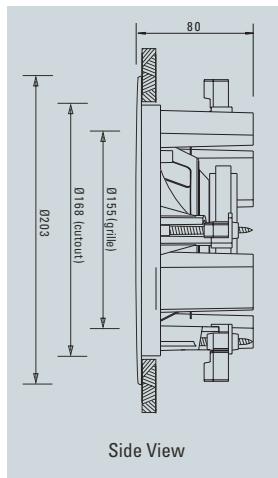
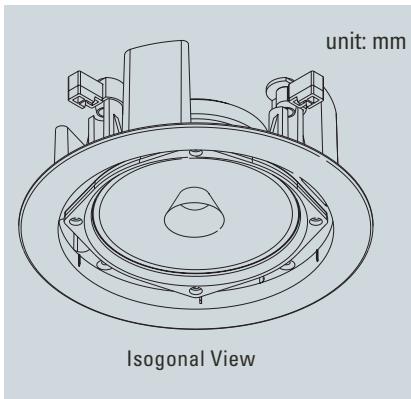
• PCL5/T

Technical Specifications

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 (BS6840)	100 – 17,500
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10kHz	83
S.P.L. @ Full power Octave Bandwidth, dB	91
Acoustic Power (dB-PWL@1 watt) 1k/2kHz, dB	83 / 81
Dispersion at 1k/2kHz, Degrees	180/160
Directivity Axial Q factor, 1k/2kHz	2.9/6.6
Dimensions, diameter, mm	Ø203
Net weight, Kgs	1.0
Colour/Finish	White
Material	Plastic Baffle ABS with UV inhibitors, Metal Driver Chassis & Grille
Mounting	Rotary compression clamps
Cut-out, mm	Ø168

EASE, CATT, ULYSSES and Architectural specifications are supplied on the disc inserted at the back of this folder
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PCL5/T



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MOULDED CABINET LOUDSPEAKERS



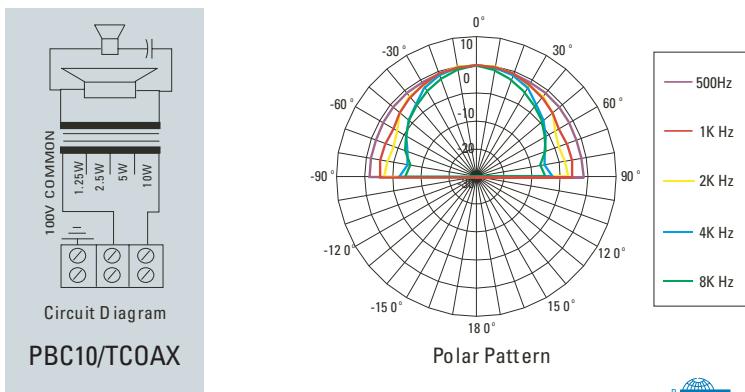
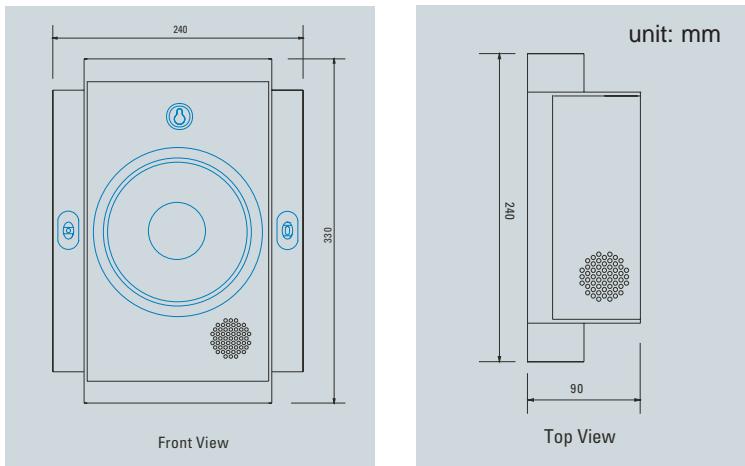
• PBC10/TCOAX • PBC10/TCOAXC

Technical Specifications

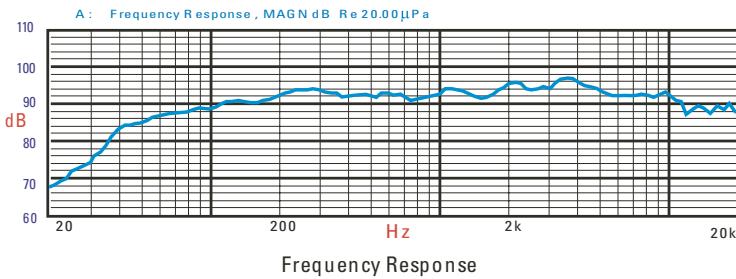
Rated power, Watts	10
Tappings 100 volt line, Watts	10 / 5 / 2.5 / 1.25
Transformer Impedance, Ohms, 100V	1.67k/3.33k/6.66k/13.3k/39.9k
Tappings 70.7 volt line, Watts	5 / 2.5 / 1.25 / 0.625
Driver impedance, Ohms	8
Effective frequency range, Hz (BS6840)	80 – 20,000
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10kHz	89
S.P.L. @ Full power Octave Bandwidth, dB	99
Acoustic Power (dB-PWL@1 watt) 1k/2kHz, dB	88 / 84
Dispersion at 1k/2k Hz, Degrees	160/120
Directivity Axial Q factor, 1k/2kHz	3.7/5.9
Dimensions, front & depth, mm	330 x 240 x 90
Net weight, Kgs	1.30
Colour/Finish	White
Material	ABS Moulding with UV inhibitors, Steel mesh
Mounting	Keyhole and/or screws

'C' Version can be supplied as BS5839 Part 8 Voice Alarm compliant, on request

PBC10/TCOAX PBC10/TCOAXC



PBC10/TCOAX



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MOULDED CABINET LOUDSPEAKERS



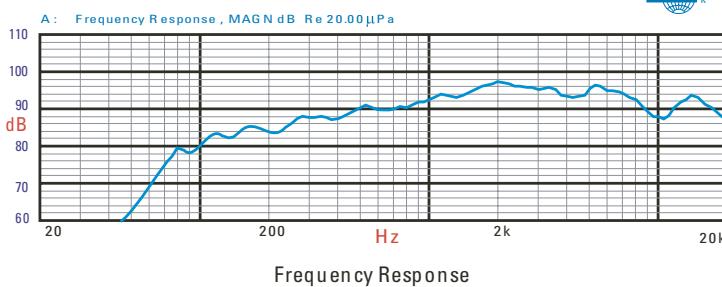
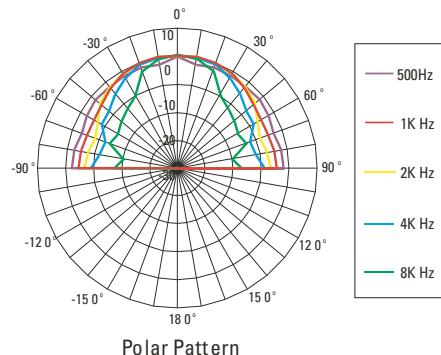
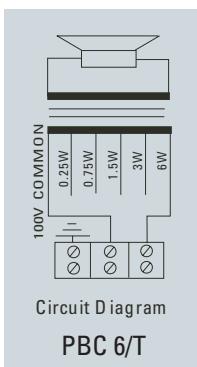
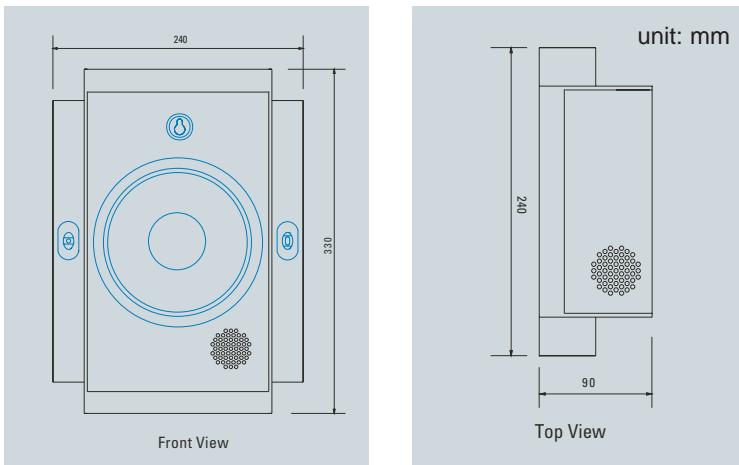
• PBC6/T • PBC6/TC

Technical Specifications

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 / 0.25 / 0.125
Driver impedance, Ohms	8
Effective frequency range, Hz (BS6840)	160 – 18,000
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10 kHz	96
S.P.L. @ Full power Octave Bandwidth, dB	104
Acoustic Power (dB-PWL@1 watt) 1 k/2kHz, dB	94 / 95
Dispersion at 1k/2k Hz, Degrees	160/ 120
Directivity Axial Q factor, 1 k/2kHz	3.6/5.8
Dimensions, front & depth, mm	330 x 240 x 90
Net weight, Kgs	1.15
Colour/Finish	White
Material	ABS moulding with UV inhibitors Steel mesh
Mounting	Keyhole and/or screws

'C' Version can be supplied as BS5839 Part 8 voice alarm compliant, on request

PBC6/T PBC6/TC



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HIGH PERFORMANCE METAL COLUMN LOUDSPEAKER



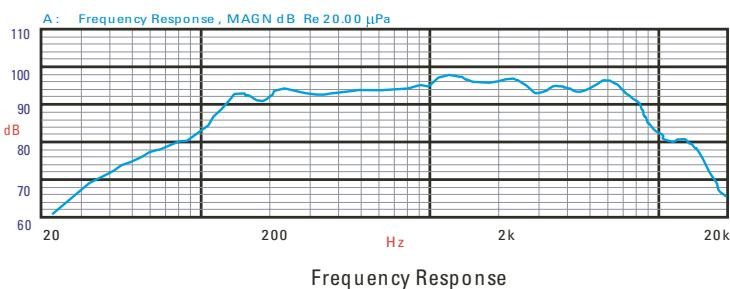
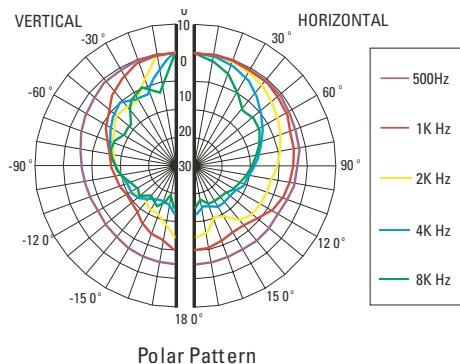
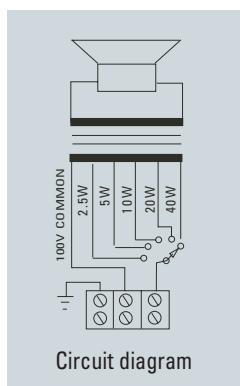
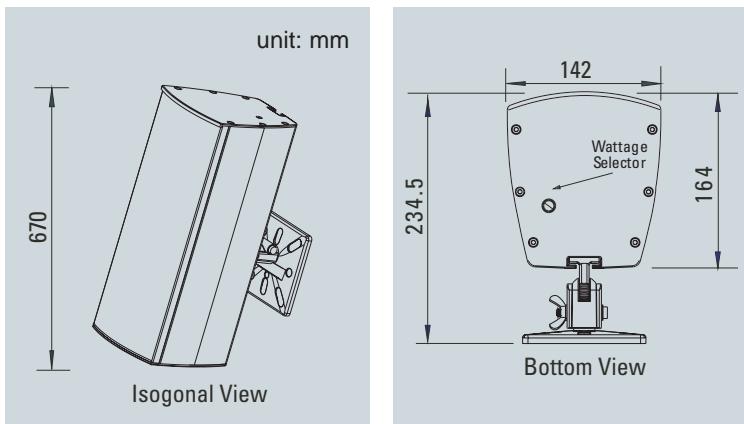
• MUS40/TC

Technical Specifications

Rated power, Watts	40
Tappings 100 volt line, Watts	40 / 20 / 10 / 5
Transformer Impedance, Ohms, 100V	250/500/1k/2k/4k
Tappings 70.7 volt line, Watts	20 / 10 / 5 / 2.5
Driver impedance, Ohms	8
Effective frequency range, Hz (BS6840)	100-10,000
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10 kHz	95
S.P.L. @ Full power Octave Bandwidth, dB	112
Acoustic Power (dB-PWL@1 watt) 1 k/2kHz, dB	93 / 92
Dispersion at 1k/2kHz, Degrees	180 / 140 (horizontal) 70 / 40 (vertical)
Directivity Axial Q factor, 1 k/2kHz	5.20 / 8.50
Dimensions, front & depth, mm	670 x 142 x 164
Net weight, Kgs	8.20, Bracket: 0.56
Colour/Finish	White RAL9016
Material	Aluminium
Mounting	Die cast metal swivel Bracket
BS5839 Part 8 voice alarm compliant	

EASE, CATT, ULYSSES and Architectural specifications are supplied on the disc inserted at the back of this folder
Manufacturer reserves the right to alter specifications without notice – September 2003

MUS40/TC



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HIGH PERFORMANCE METAL COLUMN LOUDSPEAKER



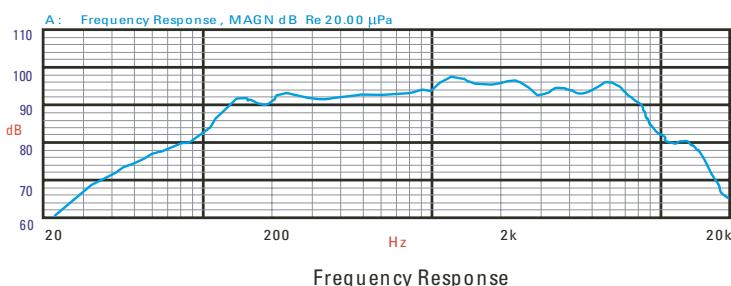
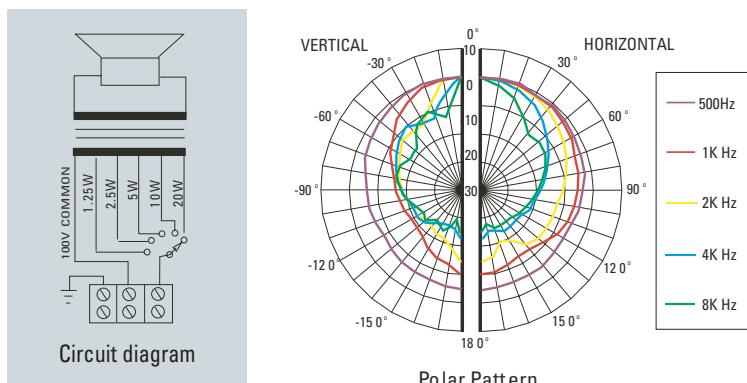
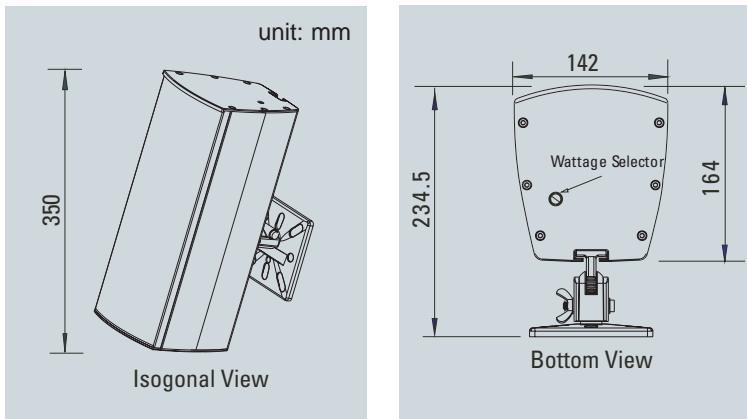
• MUS20/TC

Technical Specifications

Rated power, Watts	20
Tappings 100 volt line, Watts	20 / 10 / 5 / 2.5
Transformer Impedance, Ohms, 100V	500/1k/2k/4k/8k
Tappings 70.7 volt line, Watts	10 / 5 / 2.5 / 1.25
Driver impedance, Ohms	8
Effective frequency range, Hz (BS6840)	100–10,000
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10 kHz	93
S.P.L. @ Full power Octave Bandwidth, dB	107
Acoustic Power (dB-PWL@1watt) 1 k/2kHz, dB	90 / 88
Dispersion at 1k/2kHz, Degrees	170 / 120 (horizontal) 80 / 40 (vertical)
Directivity Axial Q factor, 1k/2kHz	5.20 / 10.10
Dimensions, front & depth, mm	350 x 142 x 164
Net weight, Kgs	4.70, Bracket: 0.56
Colour/Finish	White RAL9016
Material	Aluminium
Mounting	Die cast metal swivel Bracket
BS5839 Part 8 voice alarm compliant	

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MUS20/TC



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MUSIC HORN LOUDSPEAKERS



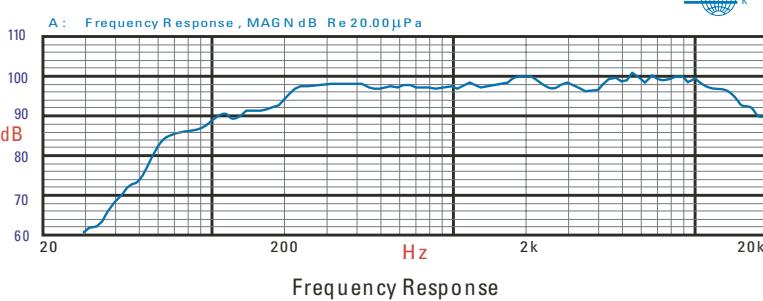
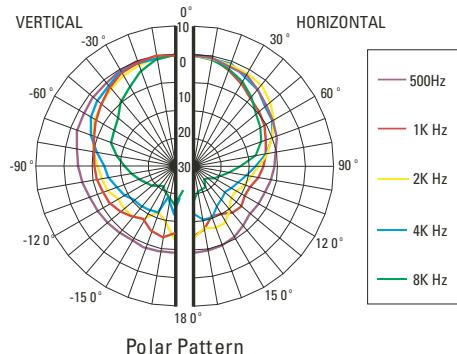
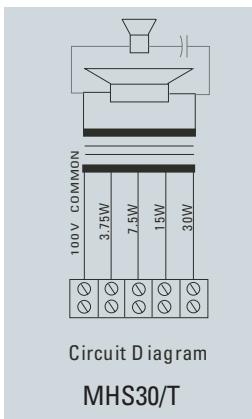
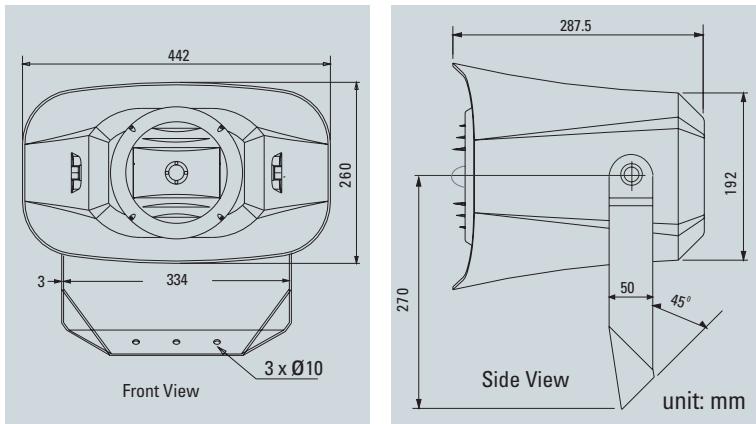
• MSH30/T • MSH30/TC

Technical Specifications

Rated power, Watts	30
Tappings 100 volt line, Watts	30/15/7.5/3.75
Transformer Impedance, Ohms, 100V	333/667/1.33k/2.66k
Tappings 70.7 volt line, Watts	15/7.5/3.75/1.875
Driver impedance, Ohms	8
Effective frequency range, Hz (BS6840)	70 – 16,500
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10 kHz	99
S.P.L. @ Full power Octave Bandwidth, dB	114
Acoustic Power (dB-PWL@1 watt) 1 k/2kHz, dB	91 / 94
Dispersion at 1k/2kHz, Degrees	100 / 120 (horizontal), 60 / 120 (vertical)
Directivity Q factor, 1k/2kHz	8.50 / 6.50
Dimensions, front & depth, mm	442 x 260 x 287.5
Net weight, Kgs	5.5
Colour/Finish	Grey RAL7035
Material	ABS Plastic with UV inhibitors
Mounting	Aluminium U bracket
'C' Version can be supplied as BS5839 Part 8 voice alarm compliant, on request	

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MSH30/T MSH30/TC



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WEATHERPROOF METAL HORN LOUDSPEAKER

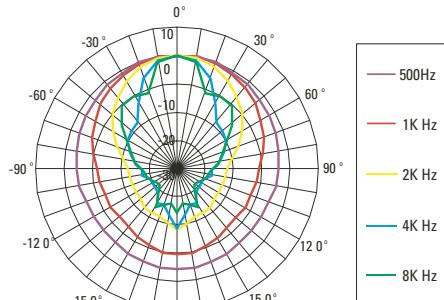
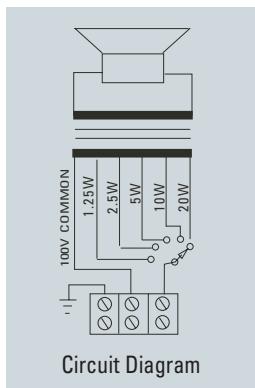
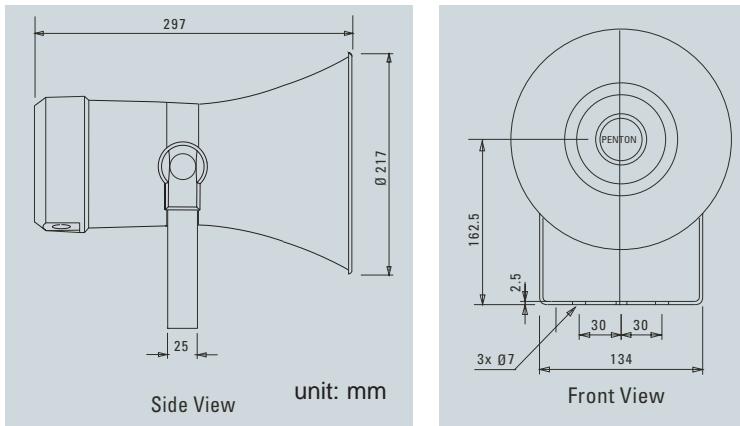


• MHS20/TC

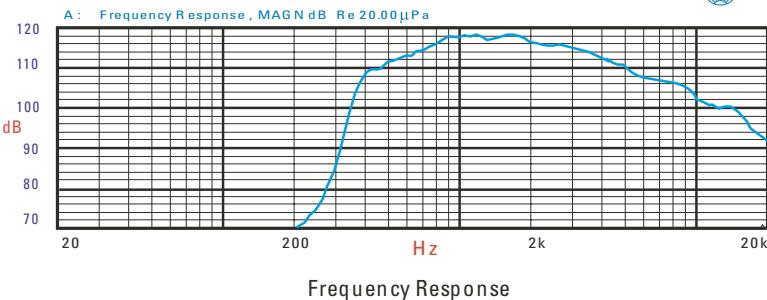
Technical Specifications

Rated power, Watts	20
Tappings 100 volt line, Watts	20/10/5/2.5
Transformer Impedance, Ohms, 100V	500/1k/2k/4k
Tappings 70.7 volt line, Watts	10/5/2.5/1.25
Driver impedance, Ohms	20 or 8
Effective frequency range, Hz (BS6840)	300 – 16,500
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10 kHz	102
S.P.L. @ Full power Octave Bandwidth, dB	114
Acoustic Power (dB-PWL@1 watt) 1 k/2kHz, dB	100 / 98
Dispersion at 1k/2k Hz, Degrees	110 / 80
Directivity Axial Q factor, 1k/2kHz	4.70 / 12.50
Dimensions, front & depth, mm	Ø220x297
Net weight, Kgs	2.60
Colour/Finish	Grey RAL7035
Material	Die cast aluminium housing
Mounting	Lockable stainless steel U bracket
BS5839 Part 8 voice alarm compliant	

MHS20/TC



Polar Pattern



Frequency Response

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METAL COLUMN LOUDSPEAKER



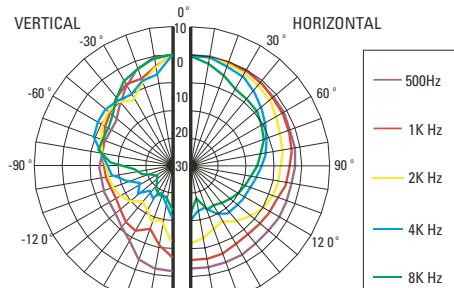
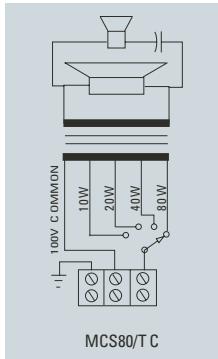
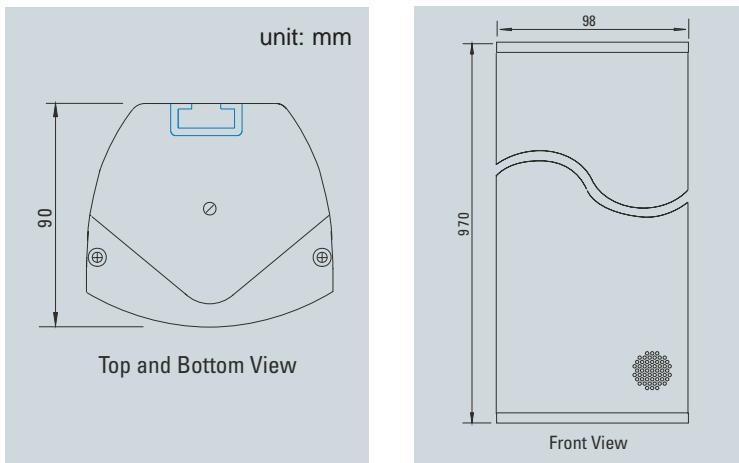
• MCS80/TC

Technical Specifications

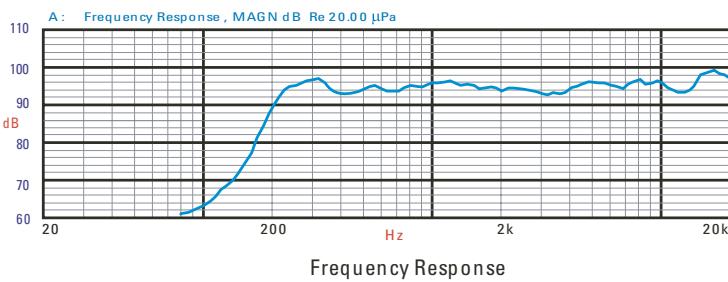
Rated power, Watts	80
Tappings 100 volt line, Watts	80 / 40 / 20 / 10
Transformer Impedance, Ohms, 100V	125/250/500/1k
Tappings 70.7 volt line, Watts	40 / 20 / 10 / 5
Driver impedance, Ohms	4
Effective frequency range, Hz (BS6840)	180-18,000
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10 kHz	97
S.P.L. @ Full power Octave Bandwidth, dB	115
Acoustic Power (dB-PWL@1 watt) 1k/2kHz, dB	92 / 94
Dispersion at 1k/2kHz, Degrees	180 / 140 (horizontal) 70 / 45 (vertical)
Directivity Axial Q factor, 1 k/2kHz	4.20 / 6.80
Drive Units	8x75mm cone drivers, 1xHF unit
Dimensions, front & depth, mm	970 x 98 x 90
Net weight, Kgs	6
Colour/Finish	White RAL9016
Material	Aluminium
Mounting	Steel L bracket
BS5839 Part 8 voice alarm compliant	

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MCS80/TC



Polar Pattern



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METAL COLUMN LOUDSPEAKER



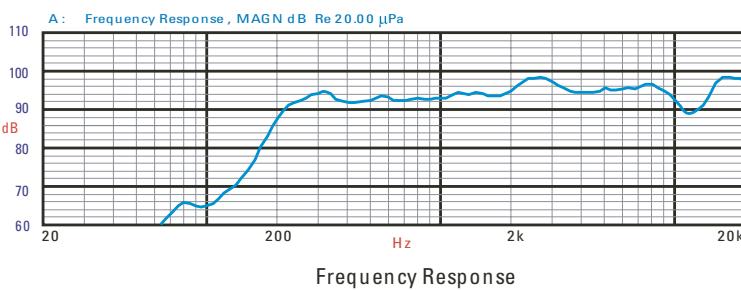
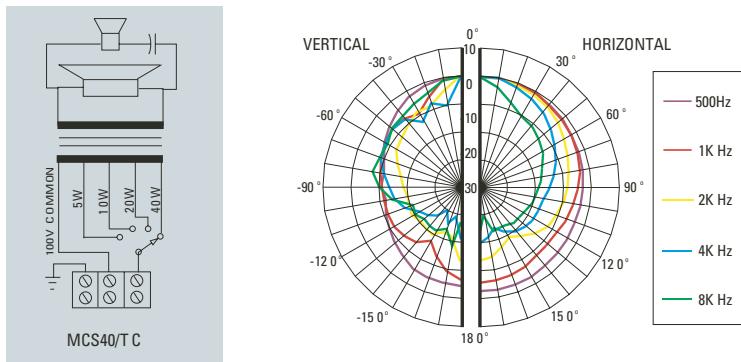
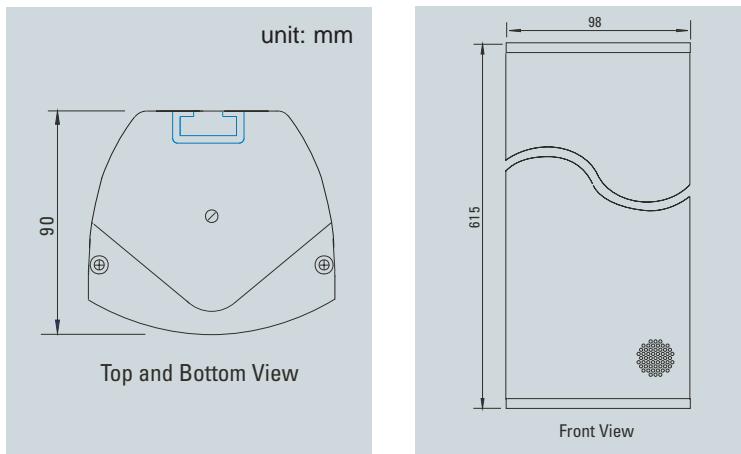
• MCS40/TC

Technical Specifications

Rated power, Watts	40
Tappings 100 volt line, Watts	40/20/10/5
Transformer Impedance, Ohms, 100V	250/500/1k/2k
Tappings 70.7 volt line, Watts	20/10/5/2.5
Driver impedance, Ohms	8
Effective frequency range, Hz (BS6840)	170-18,000
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10 kHz	92
S.P.L. @ Full power, Octave Bandwidth, dB	108
Acoustic Power (dB-PWL@1 watt) 1k/2k Hz, dB	97 / 89
Dispersion at 1k/2k Hz, Degrees	170 / 140 (horizontal) 60 / 55 (vertical)
Directivity Axial Q factor, 1k/2kHz	4.10 / 7.40
Drive Units	4x75mm cone driver, 1xHF unit
Dimensions, front & depth, mm	615 x 98 x 90
Net weight, Kgs	3.80
Colour/Finish	White RAL9016
Material	Aluminium
Mounting	Steel L bracket
BS5839 Part 8 voice alarm compliant	

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MCS40/TC



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METAL COLUMN LOUDSPEAKER



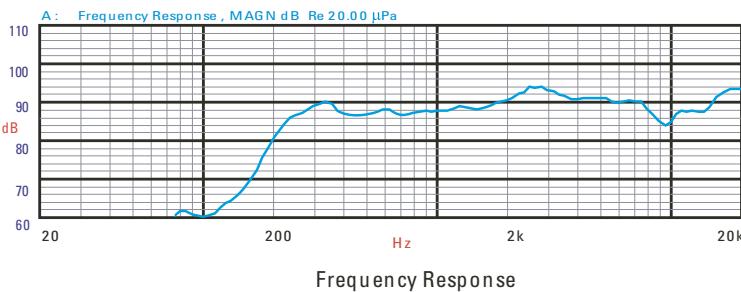
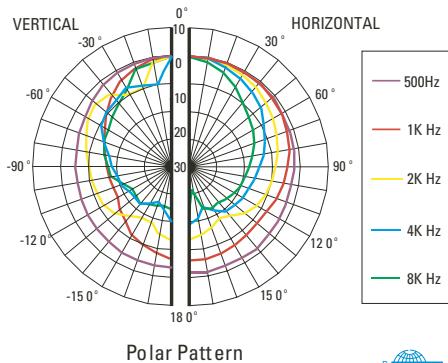
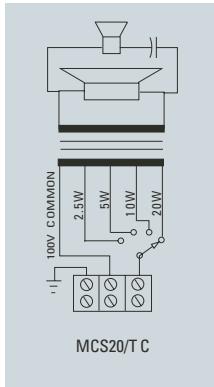
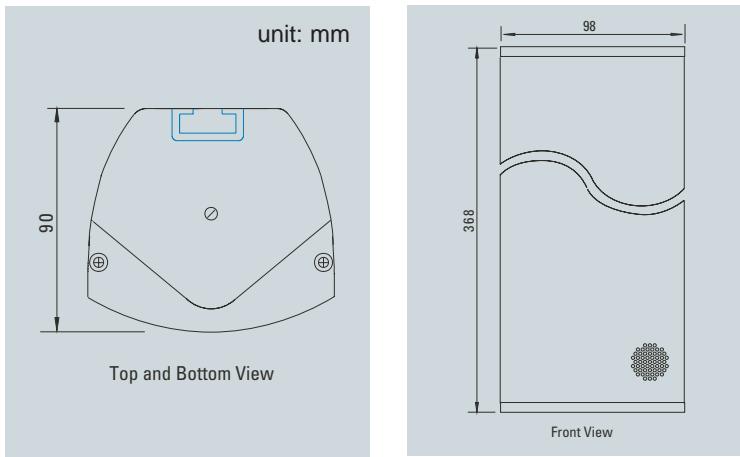
• MCS20/TC

Technical Specifications

Rated power, Watts	20
Tappings 100 volt line, Watts	20/10/5/2.5
Transformer Impedance, Ohms, 100V	500/1k/2k/4k
Tappings 70.7 volt line, Watts	10/5/2.5/1.25
Driver impedance, Ohms	4
Effective frequency range, Hz (BS6840)	170–17,000
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10 kHz	91
S.P.L. @ Full power, Octave Bandwidth, dB	104
Acoustic Power (dB-PWL@1 watt) 1k/2k Hz, dB	85 /89
Dispersion at 1k/2k Hz, Degrees	180 / 140 (horizontal) 70 / 120 (vertical)
Directivity Q factor, 1k/2kHz	4.20 / 5.80
Drive Units	2x75 cone driver, 1 x HF unit
Dimensions, front & depth, mm	368 x98 x90
Net weight, Kgs	2.70
Colour/Finish	White RAL9016
Material	Aluminium
Mounting	Steel L bracket
BS5839 Part 8 voice alarm compliant	

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MCS20/TC



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MUSIC CABINET LOUDSPEAKERS



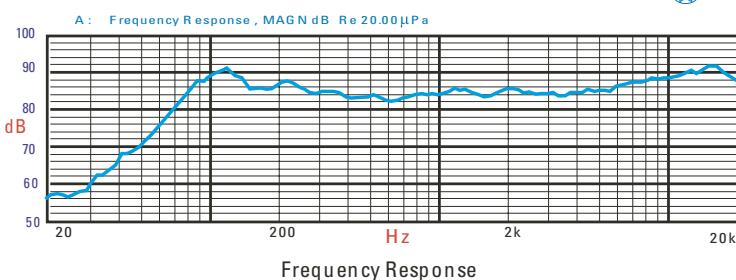
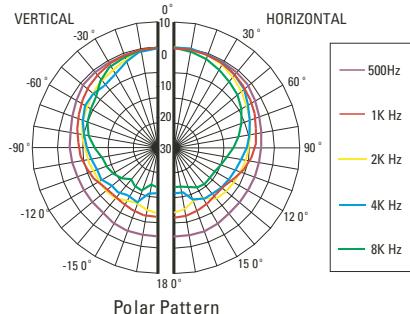
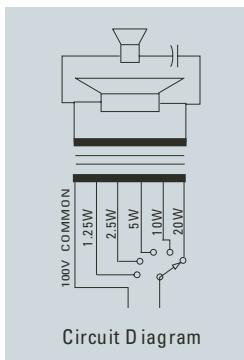
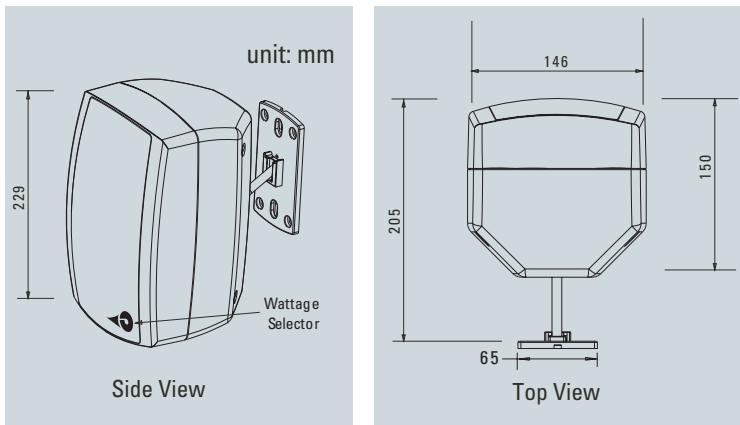
• JD20 • JD20/T

Technical Specifications

Rated power, Watts	20
Tappings 100 volt line, Watts	20/10/5/2.5/1.25
Transformer Impedance, Ohms, 100V	1.67k/3.33k/6.66k/13.3k/39.9k
Tappings 70.7 volt line, Watts	10/5/1.25/0.75
Driver impedance, Ohms	8 (JD20: 16)
Effective frequency range, Hz (BS6840)	63 – 20,000
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz – 10 kHz	81
S.P.L. @ Full power, Octave Bandwidth, dB	97
Acoustic Power (dB-PWL@1 Watt) 1k/2kHz, dB	78 / 75
Dispersion at 1k/2k Hz, Degrees	160 / 120
Directivity Axial Q factor, 1k/2kHz	3.50 / 7.1
Dimensions, front & depth, mm	146 x 229 x 150
Net weight, Kgs	1.50
Colour/Finish	White or Black
Material	ABS moulded housing
Mounting	Die-cast Aluminium Swivel Bracket

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JD20 JD20/T



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ABS SPHERICAL LOUDSPEAKERS



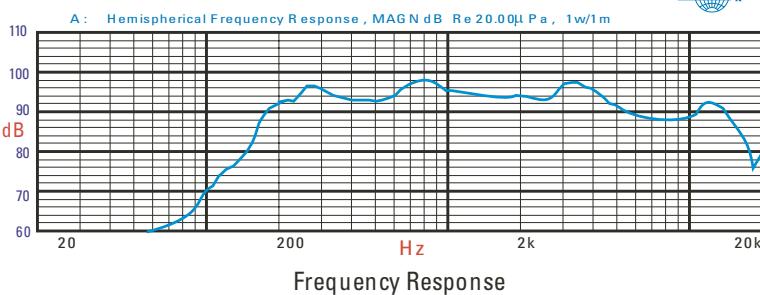
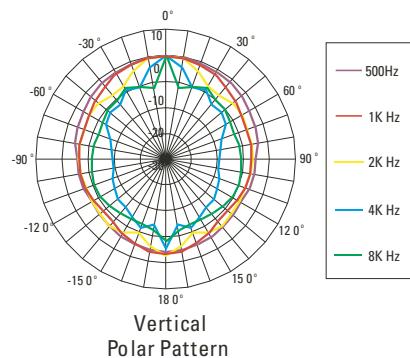
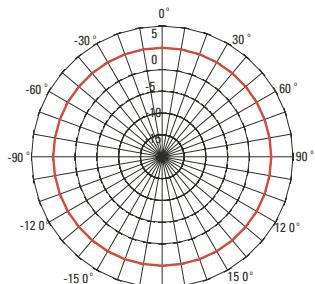
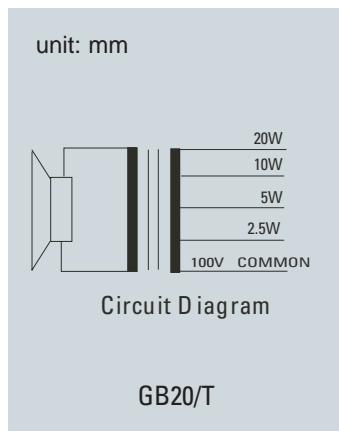
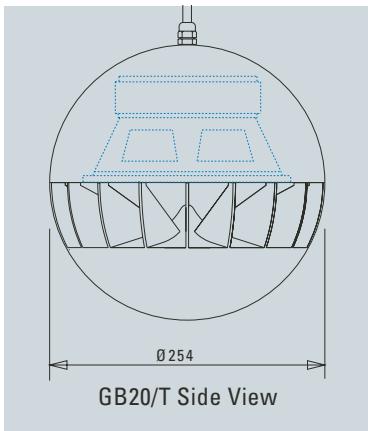
• GB20/T • GB20/TC

Technical Specifications

Rated power, Watts	20
Tappings 100 volt line, Watts	20/10/5/2.5
Transformer Impedance, Ohms, 100V	500/1k/2k/4k
Tappings 70.7 volt line, Watts	10/5/2.5/1.25
Driver impedance, Ohms	8
Effective frequency range, Hz (BS6840)	80-18,000
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10 kHz	93
S.P.L. @ Full power, Octave Bandwidth, dB	107
Acoustic Power (dB – PWL@1 watt) 1 k/2kHz, dB	95 / 90
Dispersion at 1k/2k Hz, Degrees	140 / 160 (Vertical), 360 / 360 (Horizontal)
Directivity Axial Q factor, 1k/2kHz	4.3 / 4.7
Dimensions, front & depth, mm	Ø254
Net weight, Kgs	2.40
Colour/Finish	White
Material	ABS moulding with UV inhibitors
Mounting	Pendant hung

'C' Version can be supplied as BS5839 Part 8 voice alarm compliant, on request

GB20/T GB20/TC



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METAL SOUND PROJECTORS



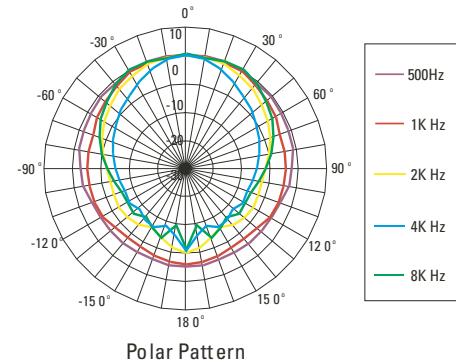
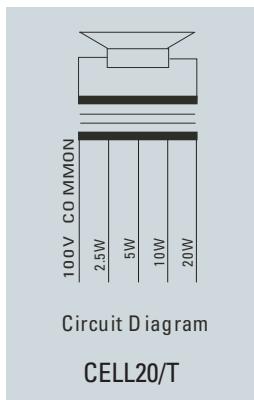
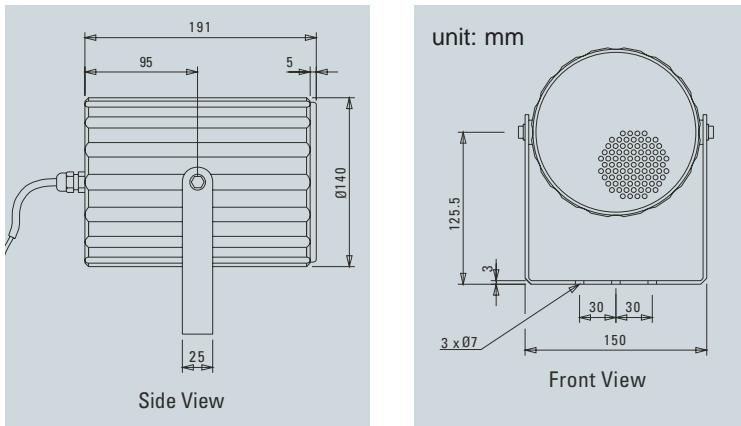
• CELL20/T • CELL20/TC

Technical Specifications

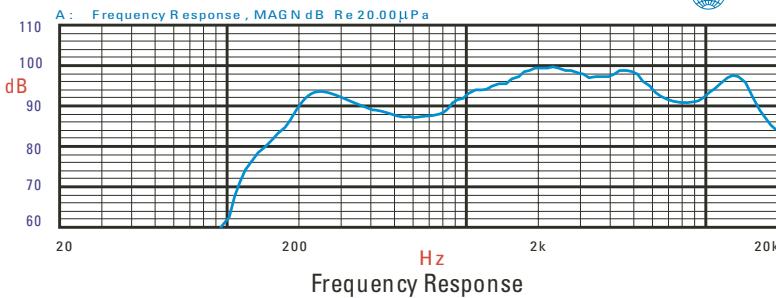
Rated power, Watts	20
Tappings 100 volt line, Watts	20/10/5/2.5
Transformer Impedance, Ohms, 100V	500/1k/2k/4k
Tappings 70.7 volt line, Watts	10/5/2.5/1.25
Driver impedance, Ohms	8
Effective frequency range, Hz (BS6840)	110-16,000
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz – 10 kHz	88
S.P.L. @ Full power, Octave Bandwidth, dB	101
Acoustic Power (dB-PWL@1 Watt) 1k/2k Hz, dB	87 / 84
Dispersion at 1k/2k Hz, Degrees	180 / 120
Directivity Axial Q factor, 1k/2kHz	2.6/5.9
Dimensions, front & depth, mm	Ø140 x 191
Net weight, Kgs	2.40
Colour/Finish	White RAL9016
Material	Aluminium with Stainless steel hardware
Mounting	Aluminium U bracket

'C' Version can be supplied as BS5839 Part 8 Voice Alarm compliant, on request

CELL20/T CELL20/TC



CE



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METAL SOUND PROJECTORS



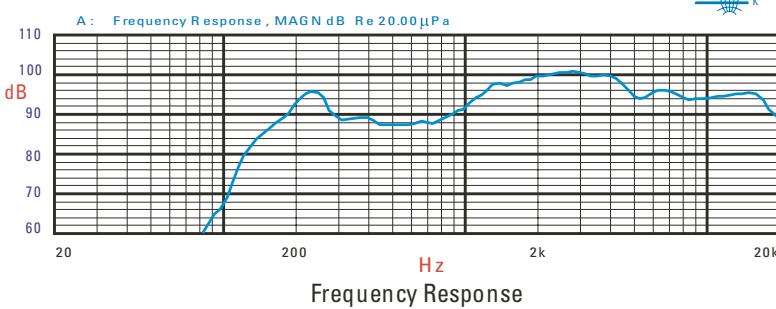
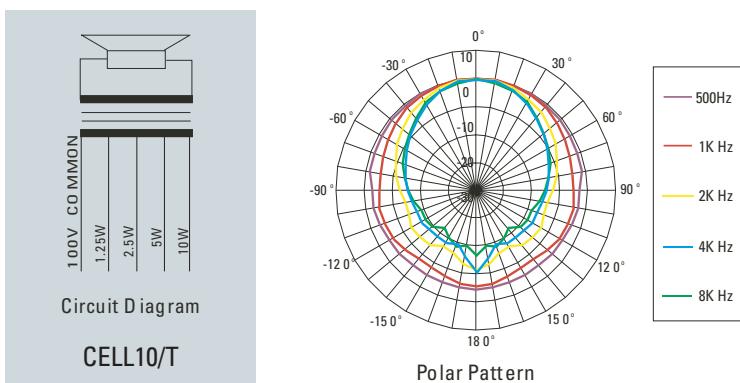
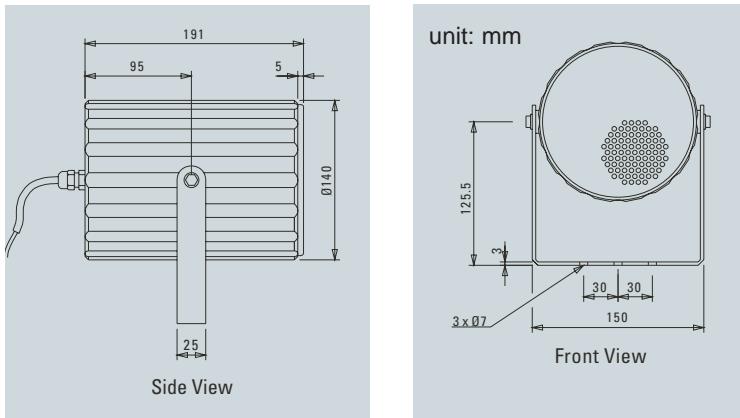
• CELL10/T • CELL10/TC

Technical Specifications

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	5/2.5/1.25/0.375
Driver impedance, Ohms	8
Effective frequency range, Hz (BS6840)	120–18,000
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz 10 kHz	91
S.P.L. @ Full power Octave Bandwidth, dB	101
Acoustic Power (dB-PWL@1 Watt) 1k/2k Hz, dB	87 / 90
Dispersion at 1k/2k Hz, Degrees	180 / 120
Directivity Axial Q factor, 1k/2kHz	2.80 / 5.90
Dimensions, front & depth, mm	Ø140 x 191
Net weight, Kgs	2.0
Colour/Finish	White RAL9016
Material	Aluminium with Stainless steel hardware
Mounting	Aluminium U bracket

'C' Version can be supplied as BS5839 Part 8 voice alarm compliant, on request

CELL10/T CELL10/TC



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METAL SOUND PROJECTORS

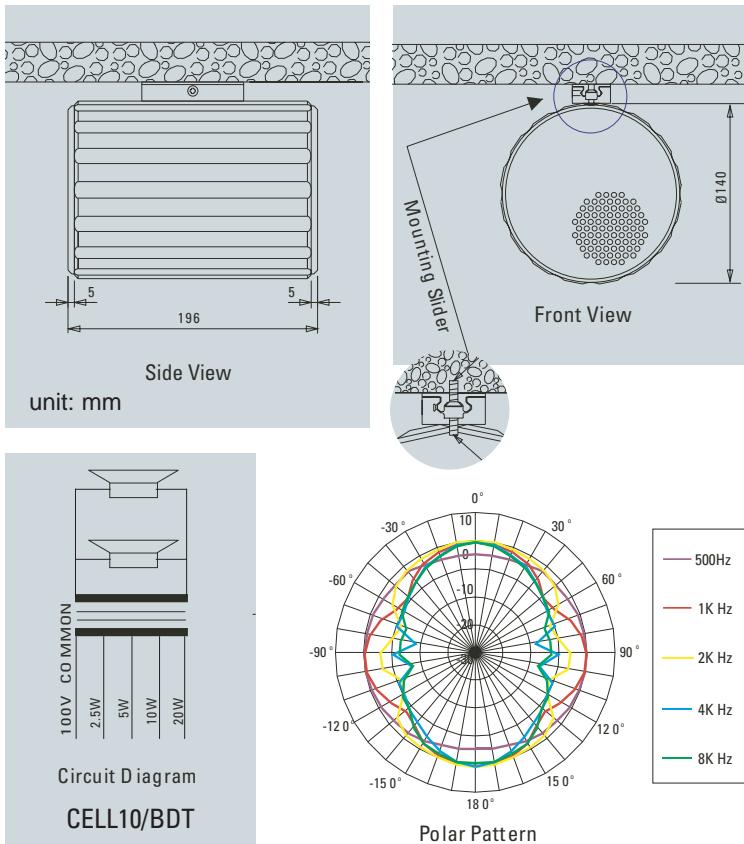
BI-DIRECTIONAL



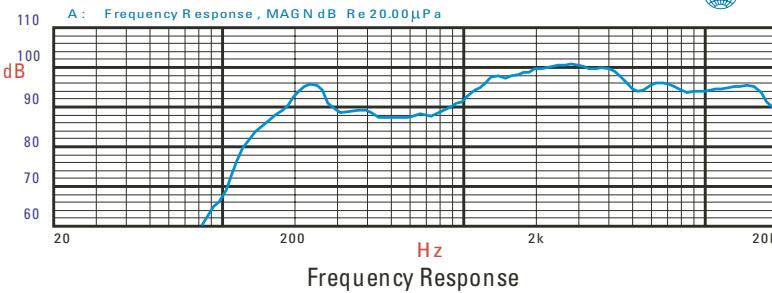
• CELL10/BDT	• CELL10/BDTC	Technical Specifications
Rated power, Watts		20 (10W x 2, Bi-directional)
Tappings 100 volt line, Watts		20/10/5/2.5
Transformer Impedance, Ohms, 100V		500/1k/2k/4k
Tappings 70.7 volt line, Watts		10/5/2.5/1.25
Driver impedance, Ohms		4
Effective frequency range, Hz (BS6840)		120–18,000
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz – 10 KHz		88
S.P.L. @ Full power, Octave Bandwidth, dB		101
Acoustic Power (dB-PWL@1 Watt) 1k/2k Hz, dB		87 / 89
Dispersion at 1k/2k Hz, Degrees		160 / 120 (each direction)
Directivity Axial Q factor, 1k/2kHz		2.20 / 2.80 (each direction)
Dimensions, front & depth, mm		Ø140 x 196
Net weight, Kgs		2.40
Colour/Finish		White RAL9016
Material		Aluminium with Stainless steel hardware
Mounting		Aluminium sliding bracket

'C' Version can be supplied as BS5839 Part 8 Voice Alarm compliant, on request

CELL10/BDT CELL10/BDTC



CE



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MOULDED SOUND PROJECTORS



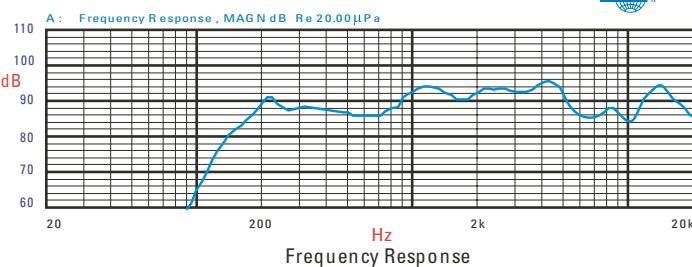
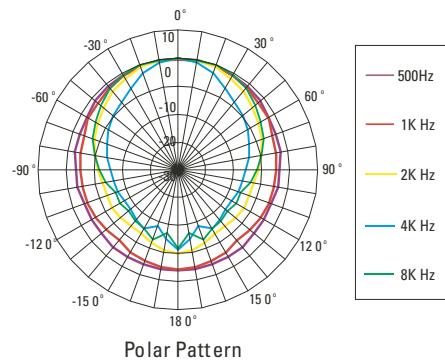
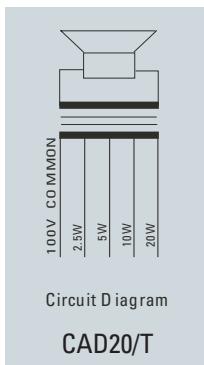
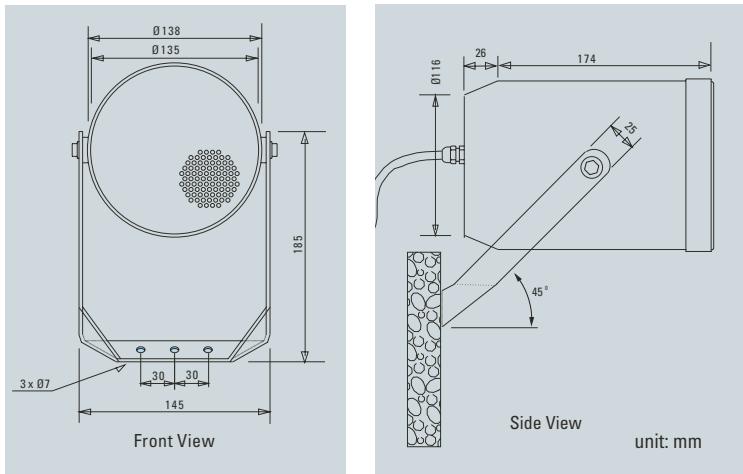
• CAD20/T • CAD20/TC

Technical Specifications

Rated power, Watts	20
Tappings 100 volt line, Watts	20/10/5/2.5
Transformer Impedance, Ohms, 100V	500/1k/2k/4k
Tappings 70.7 volt line, Watts	10/5/2.5/1.25
Driver impedance, Ohms	8
Effective frequency range, Hz (BS6840)	110-18,000
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100Hz-10 kHz	92
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 / 120
Directivity Axial Q factor, 1k/2kHz	2.60 / 5.60
Dimensions, front & depth, mm	Ø138 x 204
Net weight, Kgs	1.90
Colour/Finish	White
Material	ABS Plastic with UV inhibitor and Stainless steel hardware
Mounting	Aluminium U bracket

'C' Version can be supplied as BS5839 Part 8 voice alarm compliant, on request

CAD20/T CAD20/TC



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LOUDSPEAKER VOLUME CONTROL

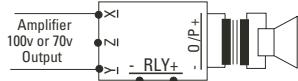
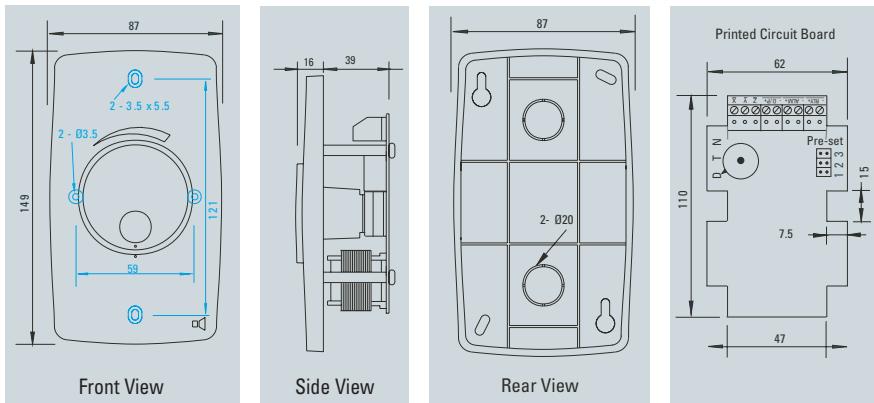


• VCT80R

Technical Specifications

Rated power 100 volt/70.7 volt line, Watts	80 / 40
Transformer output steps@ 100 volt line, Volts	100/70.7/50/35.36/25/17.68/ 12.50/8.84/6.25/4.42/3.12/OFF
Transformer output steps@ 70.7 volt line, Volts	70.7/50/35.36/25/17.68/12.50/ 8.84/6.25/4.42/3.12/2.21/OFF
Attenuation Per Step, dB	3
Total Attenuation, dB	30
Attenuation Positions	10 plus OFF
Insertion Loss, dB	0.6
Effective frequency range @1k Hz-1dB, Hz	20-20,000
Dimensions, front & depth, mm	149x87x61
Net weight, Kgs	Flush: 0.35, Surface: 0.44
Colour/Finish	White
Material	ABS Moulded
Mounting	Flush and Surface

VCT80R

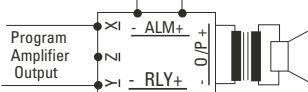


Two wire relay controlled restoration

1. Set function selector to "N", pre-set restoration sound level (1=0,2=-3,3=-6dB).
2. Connect amplifier output to "X" and "Y", 24 Vdc to " - RLY+" as shown on the diagram.

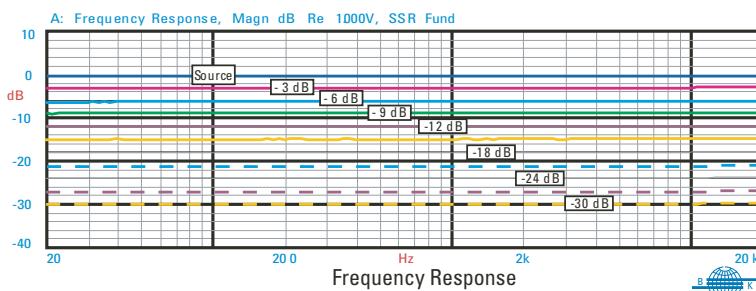
Tri-wire restoration via remote relay

1. Set function selector to "T".
2. Connect amplifier output to "X", "Z" and "Y" as shown on the diagram.



Dual amplifier sound restoration

1. Set function selector to "D".
2. Connect program amplifier output to "X" and "Y", paging amplifier to " - ALM+", 24 Vdc to " - RLY+" as shown on the diagram.



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