



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



## CATALOGUE 2014

### *Projector Loudspeakers-IV*

DELIVERING YOUR MESSAGE

Public Address - Voice Alarm

Audio Distribution over IP

Commercial Audio

Intelligent Acoustic Solutions

Intercommunication

Loudspeakers



CAD10/T | CAD10/TC | CAD10T/EN

CAD20/T | CAD20/TC | CAD20T/EN

Weatherproof Plastic



#### CAD Series

The CAD range of weatherproof sound projectors offers a combination of style and performance that is hard to match. Manufactured from an ABS moulded component with built-in UVL (ultra violet light) protection, complete with a high quality, plastiflex treated cone.

Each speaker comes with an aluminium U or straight bracket for ease of installation. This range comprises of the CAD10/T rated at 10 watts and the CAD20/T rated at 20 watts. Both units are supplied in the same stylish and compact enclosure, ideally suited for speech and music reproduction. With the added advantage of being fully weatherproofed, they are ideal for use on railways, car parks, shopping centres, sports grounds etc.

In compliance with BS5839 part8, the "C" versions incorporate a ceramic terminal and thermal fuse and are, therefore, suitable for use in voice alarm applications.

#### CELL Series

The CELL range of elegant sound projectors manufactured from epoxy coated high grade aluminium extrusion with dual cone drive units, gives both clear speech and excellent background music reproduction.

Vandalism has become a factor in all of our lives and with their rugged construction, these units are ideally suited for such places as shopping centres, railway stations, prisons etc.

They can be supplied in different colours to suit customer decor, and junction boxes can also be manufactured to order.

In compliance with BS5839 part 8, the "C" versions incorporate a ceramic terminal and thermal fuse and are, therefore, suitable for use in voice alarm applications.

# Projector Loudspeakers-IV

Weatherproof Metal

CELL10/BDT  
CELL10/BDTC

CELL10BT/EN

EN54  
24

CELL10/T  
CELL10/TC

Weatherproof Metal  
CELL20/T  
CELL20/TC

## Projector Loudspeakers-IV

Weatherproof Plastic Projector Loudspeakers

CAD Series 4

Weatherproof Plastic Projector Loudspeakers

CELL Series 8

IP65  
IP65-BS5839-8  
Standard



## CAD10/T - CAD10/TC - CAD10T/EN

### Weatherproof Plastic Projector 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:	5/2.5/1.25/0.375
Driver impedance, Ohms:	8
Effective frequency range, Hz (BSEN60268-5):	120-18KHz
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100 Hz-10 kHz:	90
S.P.L. @ Full power Octave Bandwidth, dB:	100
Acoustic Power (dB-PWL@1 watt) 1k/2kHz, dB:	87/89
Dispersion at 1k/2k Hz, Degrees :	180/120
Directivity Axial Q factor, 1k/2kHz:	2.5 /5.8

#### MECHANICAL

Dimensions, front & depth, mm:	Ø138 x 204
Net Weight, Kgs:	1.3
Colour (Unless Specified):	White RAL9016
Material: ABS Plastic with UV inhibitor and Stainless steel hardware	
Mounting:	Aluminium U or straight bracket



#### CAD10/T - CAD10/TC - CAD10T/EN

The CAD10/T - CAD10/TC - CAD10/EN are weatherproof sound projectors, they offer a combination of style and performance that is hard to match. Manufactured from an ABS moulded component with built-in UVL (ultra violet light) protection, complete with a high quality, plastiflex treated cone.

The CAD series speakers come with either an aluminium U or straight bracket for ease of installation. The CAD10/T - CAD10/TC - CAD10/EN rated at 10 watts. Both units are supplied in the same stylish and compact enclosure, ideally suited for speech and music reproduction. With the added advantage of being fully weatherproofed, they are ideal for use on railways, car parks, shopping centres, sports grounds etc.

In compliance with BS5839 part8, the "C" versions incorporate a ceramic terminal and thermal fuse and are, therefore, suitable for use in voice alarm applications

# Projector Loudspeakers-IV

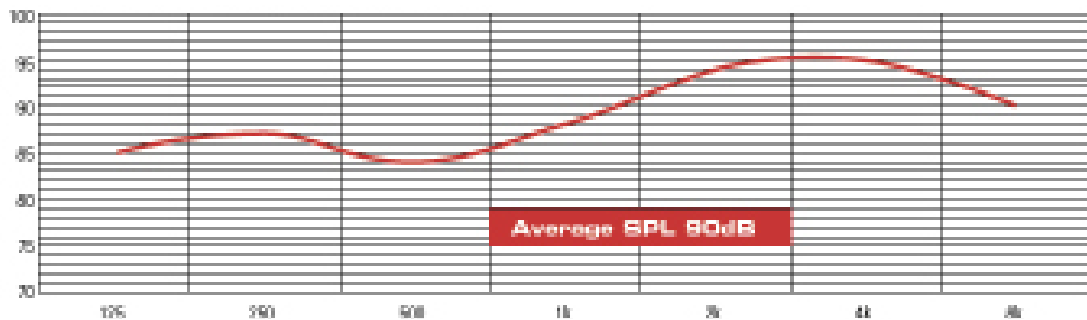
## CAD Series

CAD10/T

CAD10/TC

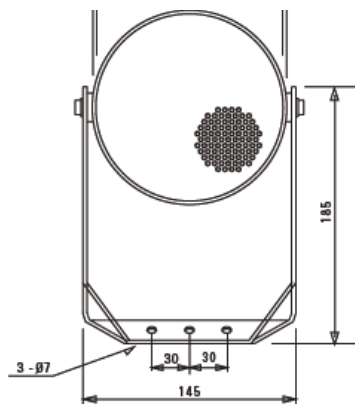
CAD10/EN

Speech octave band sensitivity

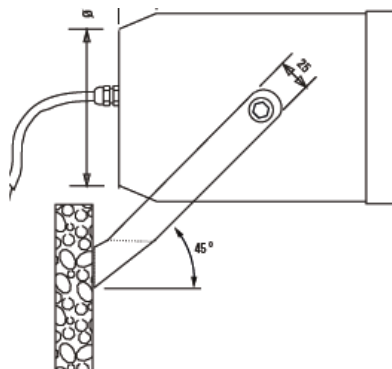


Effective Frequency Range - 120 - 18 kHz

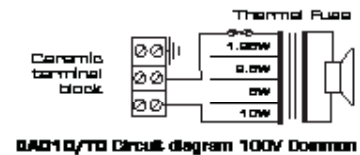
CAD10/T - CAD10/TC  
Front view



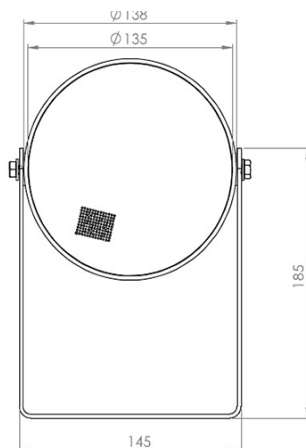
CAD10/T - CAD10/TC  
Side view



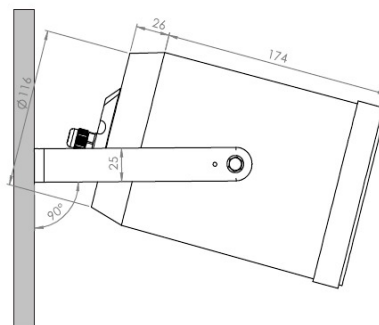
Circuit diagrams



CAD10/EN  
Front view



CAD10/EN  
Side view



IP65  
IP65-BS5839-8

unit : mm

## CAD20/T - CAD20/TC - CAD20/EN

### Weatherproof Plastic Projector Loudspeakers

#### ELECTRICAL

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 (BSEN60268-5):	110-18KHz
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:	89/90
Dispersion at 1k/2k Hz, Degrees :	180/120
Directivity Axial Q factor, 1k/2kHz:	2.6 /5.6

#### MECHANICAL

Dimensions, front & depth, mm:	Ø138 x 204
Net Weight, Kgs:	1.6
Colour (Unless Specified):	White RAL9016
Material: ABS Plastic with UV inhibitor and Stainless steel hardware	
Mounting:	Aluminium U or straight bracket



#### CAD20/T - CAD20/TC - CAD 20/EN

The CAD20/T - CAD20/TC - CAD20/EN are weatherproof sound projectors, they offer a combination of style and performance that is hard to match. Manufactured from an ABS moulded component with built-in UVL (ultra violet light) protection, complete with a high quality, plastiflex treated cone.

The CAD series speakers come with either an aluminium U or straight bracket for ease of installation. The CAD20/T - CAD20/TC - CAD20/EN rated at 20 watts. Both units are supplied in the same stylish and compact enclosure, ideally suited for speech and music reproduction. With the added advantage of being fully weatherproofed, they are ideal for use on railways, car parks, shopping centres, sports grounds etc.

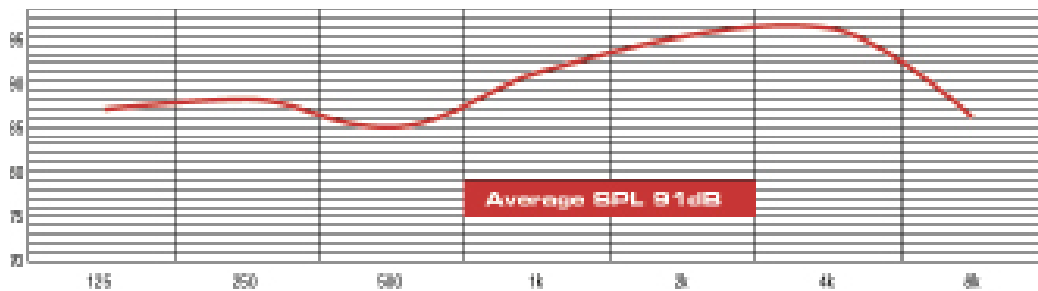
In compliance with BS5839 part8, the "C" versions incorporate a ceramic terminal and thermal fuse and are, therefore, suitable for

# Projector Loudspeakers-IV

## CAD Series

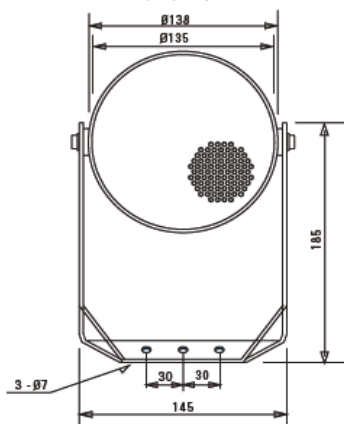
CAD20/T  
CAD20/TC  
CAD20/EN

Speech octave band sensitivity

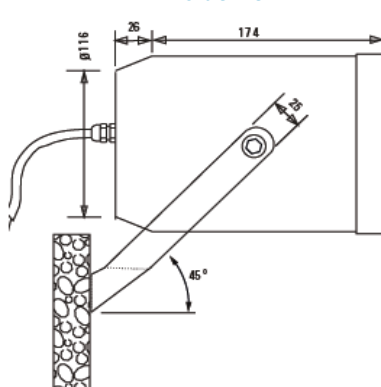


Effective Frequency Range - 110 - 18 kHz

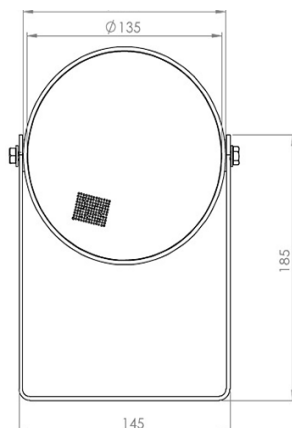
CAD20/T - CAD20/TC  
Front view



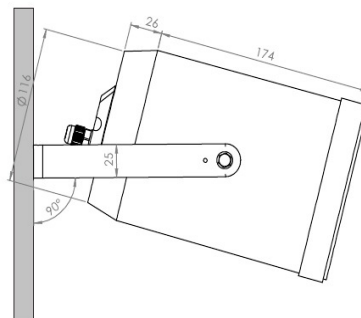
CAD20/T - CAD20/TC  
Side view



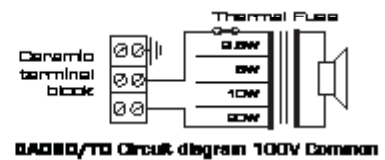
CAD20/EN  
Front view



CAD20/EN  
Side view



Circuit diagrams



IP65  
IP65-BS5839-8

unit : mm

## CELL10/T - CELL10/TC

### Metal Projector 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:	5/2.5/1.25/0.375
Driver impedance, Ohms:	8
Effective frequency range, Hz (BSEN60268-5):	120-18KHz
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:	87/90
Dispersion at 1k/2k Hz, Degrees :	180/120
Directivity Axial Q factor, 1k/2kHz:	2.8 /5.9

#### MECHANICAL

Dimensions, front & depth, mm:	Ø140 x 191
Net Weight, Kgs:	1.9
Colour (Unless Specified):	White RAL9016
Material:	Aluminium with Stainless steel hardware
Mounting:	Aluminium U bracket



### CELL10/T - CELL10/TC

The CELL10/T - CELL10/TC are elegant sound projectors manufactured from epoxy coated high grade aluminium extrusion with dual cone drive units, gives both clear speech and excellent background music reproduction.

Vandalism has become a factor in all of our lives and with their rugged construction, these units are ideally suited for such places as shopping centres, railway stations, prisons etc.

They can be supplied in different colours to suit customer decor, and junction boxes can also be manufactured to order.

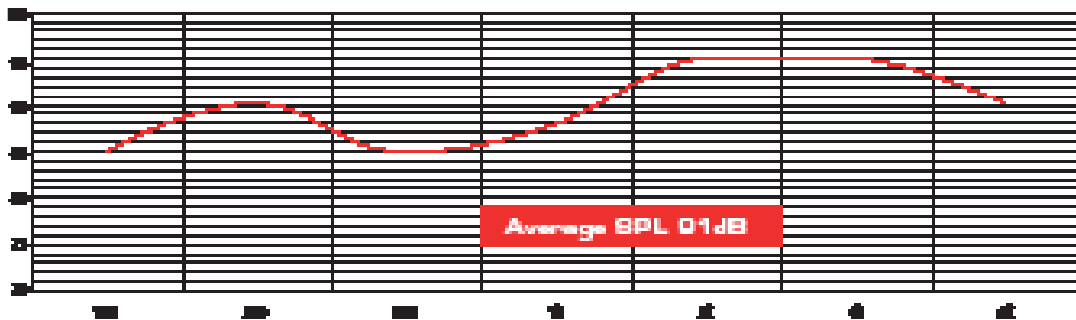
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## CELL Series

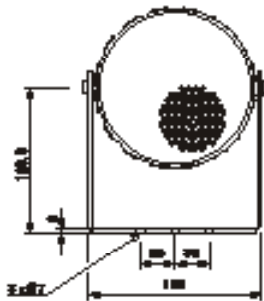
CELL10/T  
CELL10/TC

Speech octave band sensitivity

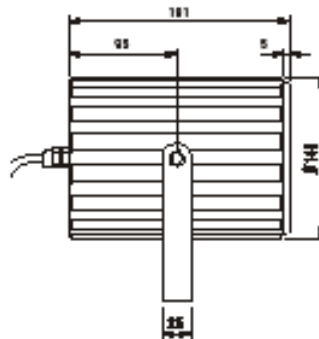


Effective Frequency Range - 120 - 18 kHz

Front view



Side view



Circuit diagrams

CELL10/T/TC Circuit diagram 100V Common



Standard  
IP55-BS5839-8

unit : mm

## CELL20/T - CELL20/TC

### Metal Projector Loudspeakers

#### ELECTRICAL

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 (BSEN60268-5):	110-16KHz
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100 Hz-10 kHz:	88
S.P.L. @ Full power Octave Bandwidth, dB:	101
Acoustic Power (dB-PWL@1 watt) 1k/2kHz, dB:	87/84
Dispersion at 1k/2k Hz, Degrees :	180/120
Directivity Axial Q factor, 1k/2kHz:	2.6 /5.9

#### MECHANICAL

Dimensions, front & depth, mm:	Ø140 x 191
Net Weight, Kgs:	2.3
Colour (Unless Specified):	White RAL9016
Material:	Aluminium with Stainless steel hardware
Mounting:	Aluminium U bracket



#### CELL20/T - CELL20/TC

The CELL20/T - CELL20/TC are elegant sound projectors manufactured from epoxy coated high grade aluminium extrusion with dual cone drive units, gives both clear speech and excellent background music reproduction.

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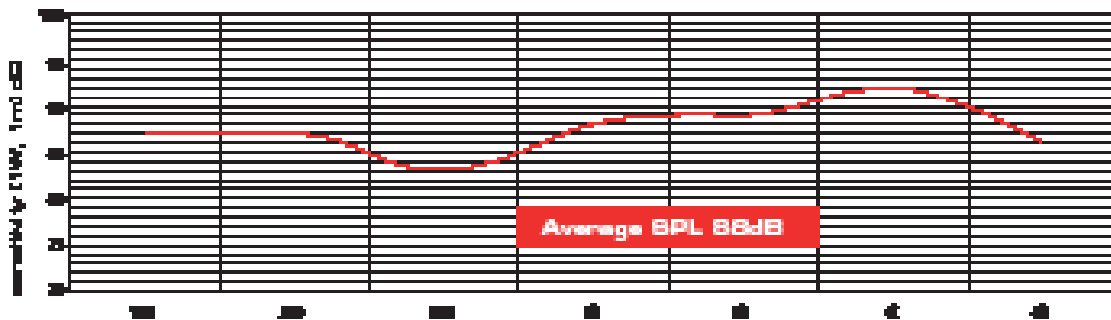
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# Projector Loudspeakers-IV

## CELL Series

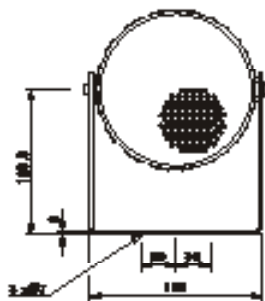
CELL20/T  
CELL20/TC

Speech octave band sensitivity

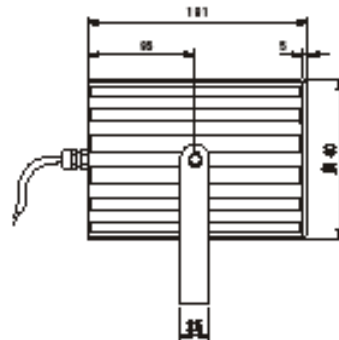


Effective Frequency Range - 120 - 18 kHz

Front view

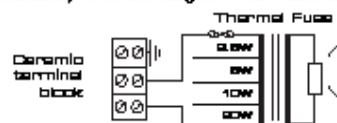


Side view



Circuit diagrams

CELL20/T Circuit diagram 100V Common



Standard  
BS5839-8

unit : mm

## CELL10/BDT - CELL10/BDTC CELL10BT/EN

### Metal Projector Loudspeakers

#### ELECTRICAL

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:	8 // 8 = 4
Effective frequency range, Hz (BSEN60268-5):	120-18KHz
S.P.L. @ 1m, 1 watt, dB, Test Signal Bandwidth 100 Hz-10 kHz:	88
S.P.L. @ Full power Octave Bandwidth, dB:	101
Acoustic Power (dB-PWL@1 watt) 1k/2kHz, dB:	87/89 * 90/88
Dispersion at 1k/2k Hz, Degrees :	160/120 (each direction)
Directivity Axial Q factor, 1k/2kHz:	2.2 / 2.8 (each direction)

#### MECHANICAL

Dimensions, front & depth, mm:	Ø140 x 196 * 230 x 192 x 174
Net Weight, Kgs:	2.4
Colour (Unless Specified):	White RAL9016
Material:	Aluminium
Mounting:	Aluminium sliding bracket * Aluminium bracket base with screw x 2

\* CELL10/BTEN



### CELL10/BDT - CELL10/BDTC CELL10BT/EN

The CELL10/BDT - CELL10/BDTC - CELL10BT/EN are elegant sound projectors manufactured from epoxy coated high grade aluminium extrusion with dual cone drive units, gives both clear speech and excellent background music reproduction.

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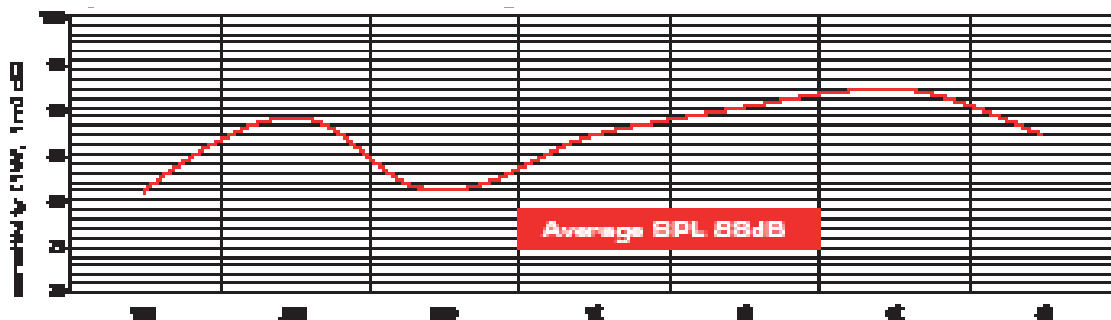
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# Projector Loudspeakers-IV

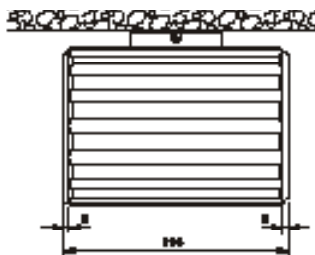
## CELL Series CELL10/BDT CELL10/BDTC CELL10BT/EN

Speech octave band sensitivity

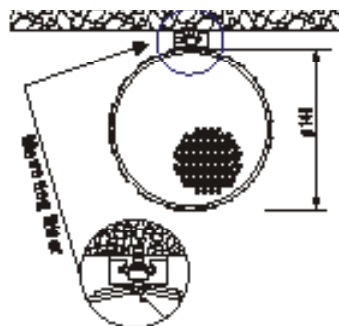


Effective Frequency Range - 120 Hz - 18 kHz

CELL10/BDT - CELL10/BDTC  
Front view

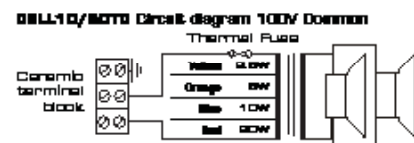


CELL10/BDT - CELL10/BDTC  
Side view

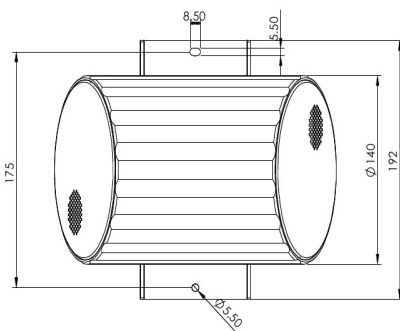


Circuit diagrams

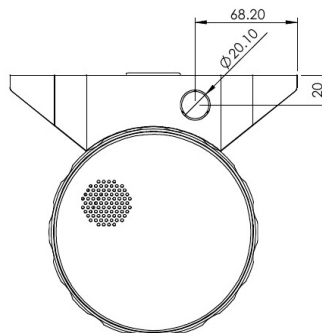
For the CELL10/BDTC the colour connections are as follows:



CELL10BT/EN  
Front view



CELL10BT/EN  
Side view



Standard  
BS5839-8

unit : mm

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Intercommunication  
Loudspeakers



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