

File Information

Filename: **25-6015-F**
 Created By: **Michael Williams**
 Modified By: -
 Date Created: **18/07/12**
 Date Modified: **11/12/14**

Document Information

No. Of Pages: **1**
 Print Colours: **Black**
 Material Spec: **Stock White 80gsm**
 Binding: **None**
 Hole Punching: **None**
 Folding Instructions: **Standard**
 Dimensions: **A4 (297x210mm)**
 Sheets: **1 Sheet: Single Sided**

Change History

Rev:	E
Change:	ECN 2242
Date:	13/02/13
User:	MW
Comments:	Update Sound output values.
Rev:	F
Change:	2682
Date:	11/12/14
User:	MW
Comments:	CPD to CPR

CASBB384, MASB870, FXN537 Sounder/Beacon Base Specification

Supply Voltage : 18 – 32 Vdc
 Cable Size / type : 0.5 – 2.5mm/ FIRETUF, FP200 or MICC
 Standby current : < 450 uA
 Operating temperature : -10 to +55 degrees C (95%RH)
 Material : ABS/PC FR Plastic
 Environment Category : Type A / IP21C

Sound output @ +/-3dB (set by panel)
 : Low volume : 83dB @ <6.6mA
 : Medium volume : 90dB @ <8mA
 : High volume : 93dB @ <9mA

Compliance : EN54-3 Fire Alarm Device - Sounder
 : EN54-17:2005

Tones (set by panel)
 : Continuous 910Hz
 : Pulsed 910 / 0Hz pulse 1Hz
 : Two Tone 610 / 910Hz @ 1Hz cycle
 : Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap

Beacon : 1 Hz Flash

Note: Polar dispersion information available in the Technical manual (Ref.M05-010)



Short Circuit Isolators

Each of the sounder beacons in this range contain an integral short circuit isolator, which operates between the - VE COM IN terminal and the -VE COM OUT terminal (terminals 1 & 2; see base wiring diagram overleaf). The isolator operates in conjunction with the DF6000 Control Panel when a low parallel resistance fault of typically 200 is presented between the +VE and -VE of the loop wiring.

Short Circuit Isolation Data (Integral with each Sounder Beacon)

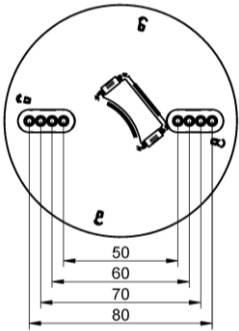
Total Loop Resistance for correct operation of short circuit isolator	50Ω (max)
Parallel Fault Resistance to be seen at the Control Panel for isolators to open	200Ω (typ)
Continuous Current allowable through isolator	700mA (max)
Isolator Resistance in closed state	0.26Ω (max)
Leakage Current into direct short circuit with isolator open	14mA (max)
Voltage at which isolator changes from open to closed or closed to open state	3.8V to 11V
Maximum switching current of isolator	1.5A

Order Codes

CASBB384	Loop Mounted Sounder/Beacon
CASC	Cover for sounder Base (5 Pack)
MASB870	Loop Mounted Sounder/Beacon
MASC	Cover for sounder Base (5 Pack)
FXN537	Loop Mounted Sounder/Beacon
MASC	Cover for sounder Base (5 Pack)

Installation Details

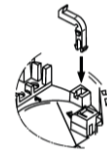
1. Mounting base



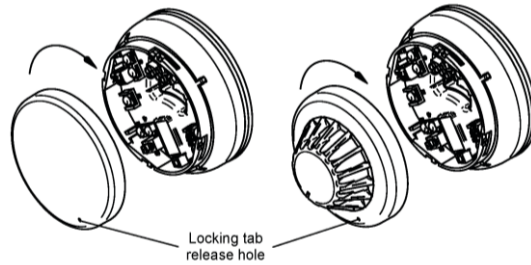
- (i) Knock-Out the required fixing holes
 - (ii) Fix to mounting surface using two suitable screws
- If the base deforms on an uneven surface, loosen the screws or move to a more flat position**

1. Mounting base

Fit the locking tab into the square hole on the sounder. Finish assembly as stage 5. Remove by inserting a suitable tool (eg. thin screwdriver) into the hole in the detector or cover, then rotate detector or cover anti-clockwise.

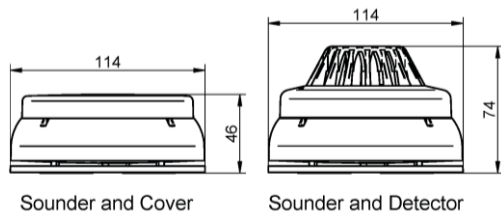


1. Mounting base



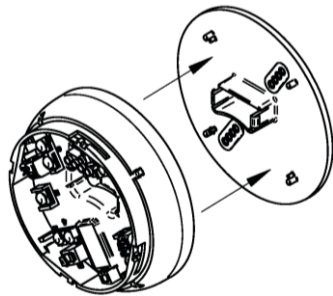
Remove by inserting a suitable tool (eg screwdriver) into the hole in the detector / cover, the rotate detector / cover anti-clockwise.

Dimensions



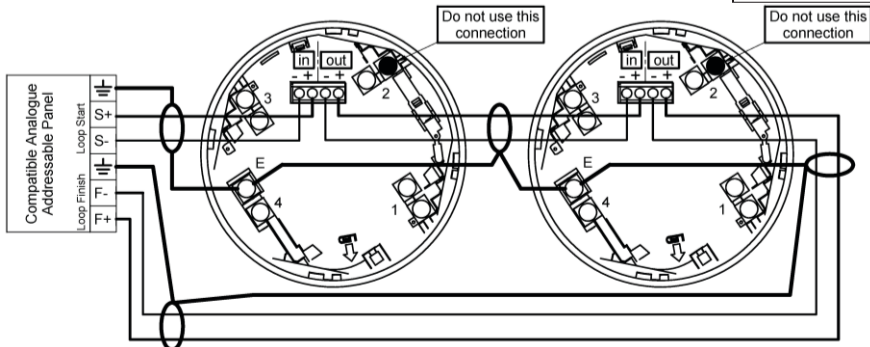
2. Connection details

(i) Clip Sounder onto base
 If sounder needs to be removed use a small screwdriver to unclip
Do not bring excessive cable into the sounder/beacon as this can interfere with the fitting of the detector, keep cable tails to a minimum.



2. Connection details

WARNING Do NOT use high voltage testers if ANY equipment is connected to the system.
 Earth screen must be continuous along entire length of loop.



Cooper Lighting and Safety Ltd.

Wheatley Hall Road, Doncaster, South Yorkshire, DN2 4NB, United Kingdom
Sales Tel: +44 (0)1302 – 303999 Fax: +44 (0)1302 – 303333 sales@cooperfire.com
Technical Tel: +44 (0)1302 – 303350 Fax: +44 (0)1302 – 303332 techsupport@cooperfire.com
Export Tel: +44 1302 – 303344 Fax: +44 1302 – 303345 export@cooperfire.com

Made in UK
 PR212-186-502-01



CASBB384, MASB870, FXN537 Sounder/Beacon Base Specification

Short Circuit Isolators

Supply Voltage : 18 – 32 Vdc
 Cable Size / type : 0.5 – 2.5mm/ FIRETUF, FP200 or MICC
 Standby current : < 450 uA
 Operating temperature : -10 to +55 degrees C (95%RH)
 Material : ABS/PC FR Plastic
 Environment Category : Type A / IP21C

Each of the sounder beacons in this range contain an integral short circuit isolator, which operates between the - VE COM IN terminal and the -VE COM OUT terminal (terminals 1 & 2; see base wiring diagram overleaf).
 The isolator operates in conjunction with the DF6000 Control Panel when a low parallel resistance fault of typically 200 is presented between the +VE and -VE of the loop wiring.

Sound output @ +/-3dB (set by panel)
 : Low volume : 83dB @ <6.6mA
 : Medium volume : 90dB @ <8mA
 : High volume : 93dB @ <9mA

Compliance : EN54-3 Fire Alarm Device - Sounder
 : EN54-17:2005

Tones (set by panel)
 : Continuous 910Hz
 : Pulsed 910 / 0Hz pulse 1Hz
 : Two Tone 610 / 910Hz @ 1Hz cycle
 : Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap

Beacon : 1 Hz Flash

Note: Polar dispersion information available in the Technical manual (Ref:M05-010)



Short Circuit Isolation Data (Integral with each Sounder Beacon)

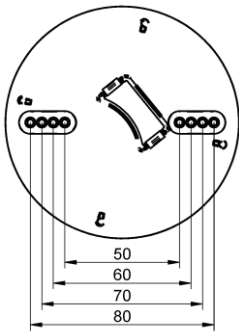
Total Loop Resistance for correct operation of short circuit isolator	50Ω (max)
Parallel Fault Resistance to be seen at the Control Panel for isolators to open	200Ω (typ)
Continuous Current allowable through isolator	700mA (max)
Isolator Resistance in closed state	0.26Ω (max)
Leakage Current into direct short circuit with isolator open	14mA (max)
Voltage at which isolator changes from open to closed or closed to open state	3.8V to 11V
Maximum switching current of isolator	1.5A

Order Codes

CASBB384	Loop Mounted Sounder/Beacon
CASC	Cover for sounder Base (5 Pack)
MASB870	Loop Mounted Sounder/Beacon
MASC	Cover for sounder Base (5 Pack)
FXN537	Loop Mounted Sounder/Beacon
MASC	Cover for sounder Base (5 Pack)

Installation Details

1. Mounting base

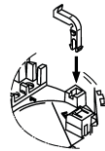


- (i) Knock-Out the required fixing holes
- (ii) Fix to mounting surface using two suitable screws

If the base deforms on an uneven surface, loosen the screws or move to a more flat position

1. Mounting base

Fit the locking tab into the square hole on the sounder.
 Finish assembly as stage 5.
 Remove by inserting a suitable tool (eg. thin screwdriver) into the hole in the detector or cover, then rotate detector or cover anti-clockwise.

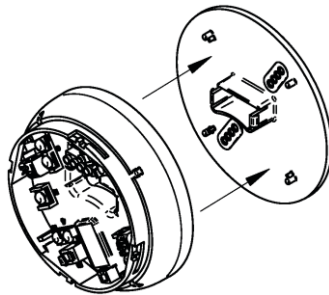


2. Connection details

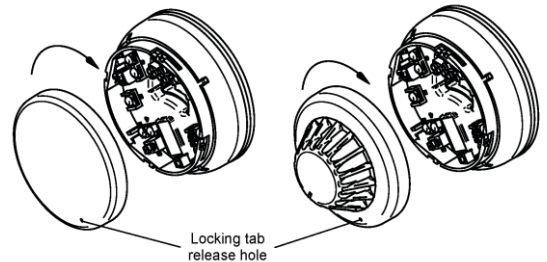
(i) Clip Sounder onto base

If panel needs to be removed use a small screwdriver to unclip

Do not bring excessive cable into the sounder/beacon as this can interfere with the fitting of the detector, keep cable tails to a minimum.

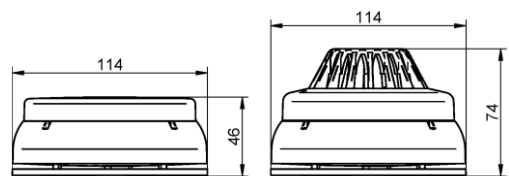


1. Mounting base



Remove by inserting a suitable tool (eg screwdriver) into the hole in the detector / cover, the rotate detector / cover anti-clockwise.

Dimensions



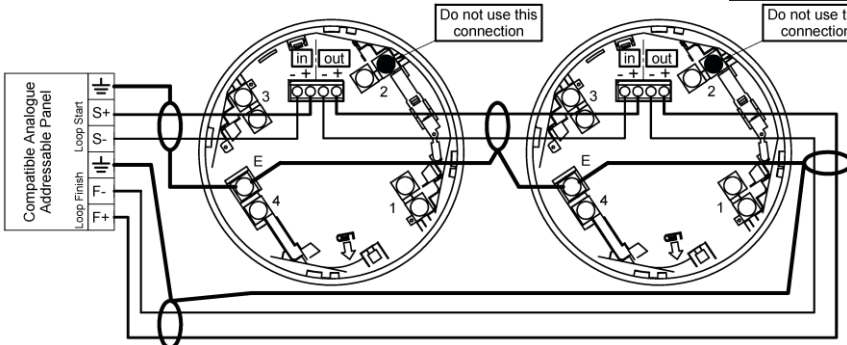
2. Connection details

WARNING Do NOT use high voltage testers if ANY equipment is connected to the system.

Earth screen must be continuous along entire length of loop.

Do not use this connection

Do not use this connection



Cooper Lighting and Safety Ltd.

Wheatley Hall Road, Doncaster, South Yorkshire, DN2 4NB, United Kingdom

Sales
 Tel: +44 (0)1302 – 303999
 Fax: +44 (0)1302 – 303333
 sales@cooperfire.com

Technical
 Tel: +44 (0)1302 – 303350
 Fax: +44 (0)1302 – 303332
 techsupport@cooperfire.com

Export
 Tel: +44 1302 – 303344
 Fax: +44 1302 – 303345
 export@cooperfire.com

Made in UK

PR212-186-502-01

COOPER Safety
 Fire Systems

