In-Wall

C-FM_

Audio command with FM RDS, Bluetooth, 2 auxiliary inputs and 2 zones.

Technical data

Audio input	2.0 V rms
Audio output	0 a 2.0 V rms
SNR	80 dBA wtd.
Crosstalk	> 60 dB Max.
Consumption	< 1 W
Power supply	12 V DC

FM radio:
Band	87.5 … 108 MHz
Sensibility	18 kHz
SNR (mono)	65 dBA Wtd.

Bluetooth:
Standard	V3.0, classe 2
Frequency band	2.4 ~ 2.48 GHz
Operating range	10 meters
Sensitity	-85 dBm in 0.1% BER
Ingress protection IP	IP20

Note:

It is necessary the touch panel OT-FM_ to operate the audio command.

⚠

Danger - Electric Shock Risk!

Switch off the power before any intervention.

Handling by qualified and authorized persons only.

Description

The C-FM_ is a audio command with local FM RDS tuner, 2 stereo audio inputs (see options table), volume control for 2 separate zones, Bluetooth, alarm clock and timer.

The C-FM_ receives a touch panel OT-FM_ with OLED display and illuminated touch sensor keys.

Applications

Ambient audio system in homes, shops, hospitals, clinics and hotels.

The C-FM_ performs as a preamplifier providing the regulated audio for further amplification. It is indicated for audio installations with active speakers or solutions with separate amplification both with low impedance as well as with 100 V transformers.

The digital volume control for 2 zones allows that a unit installed for example in the bedroom, supplies the same sound for the bathroom, with an independent volume control. The control in the bathroom is done by the automation buttons that are associated to the unit.

Both sound outputs have a line 'driver' allowing connection of several power amplifiers to the same output.

Case the ONLY amplifier is used, up to 3 amplifiers can be connected to the left and right channels.
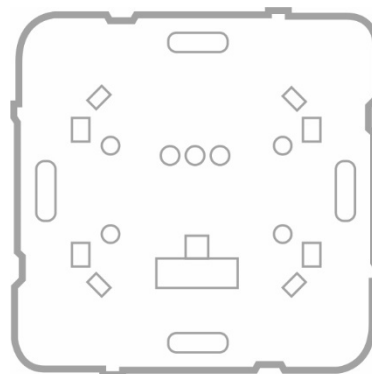
Instalação

The C-FM_ is mounted in a deep flush-mounting box (60 mm), where the OT-FM_ touch panel will be attached.

Available Units

Name	Zones	BT	FM
C-FMC	1		✔
C_FMBT-C	1	✔	✔
C_FM2Z	2		✔
C-FMBT-2Z	2	✔	✔

Features
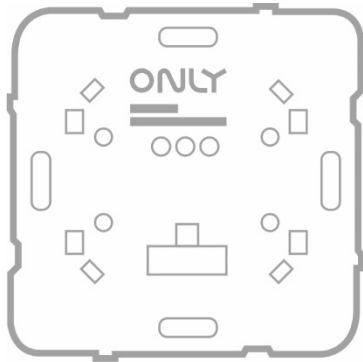
Stereo FM with RDS
Bluetooth receiver
2 auxiliary stereo inputs on the back
Station search in both directions with frequency indication
Digital volume control for 2 zones
Stereo or mono functioning
Control of Loudness, Bass and Treble
Alarm clock with timer function

71mm
35mm
71mm

Subject to change without notice

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In-Wall
C-FM_

Audio command with FM RDS, Bluetooth, 2 auxiliary inputs and 2 zones.

Typical installation:

C-FM2Z + OT-FMLCD

Source 1

Source 2

D-PA08-M — Bedroom

D-PA08-M

D-PA08-M — WC
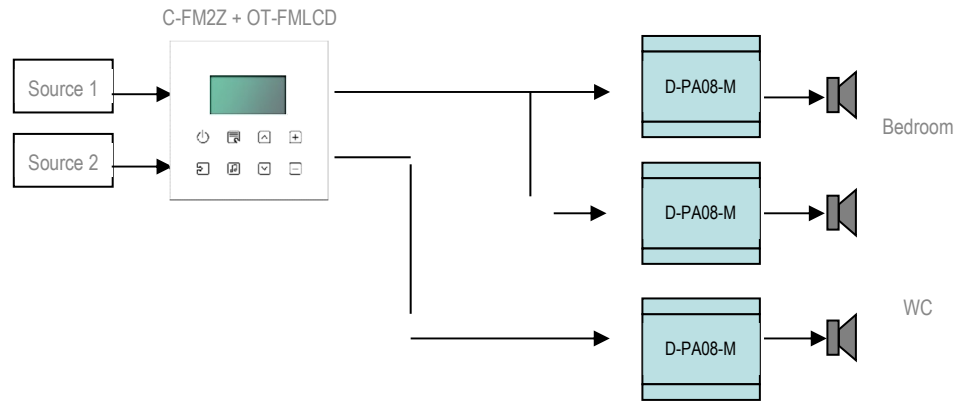
Fig. 1: Simple installation for 2 zones

C-FMC + OT-FMLCD

Source 1

Source 2

Living room

D-PA08-M

D-PA08-M

C-FM2Z + OT-FMLCD

Source 3

Bedroom

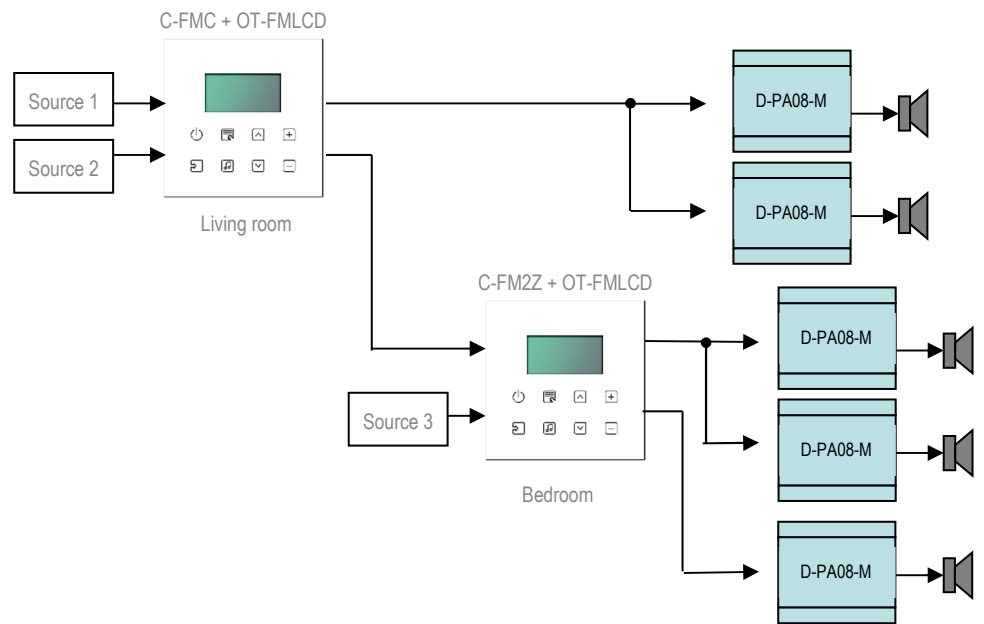D-PA08-M

D-PA08-M

D-PA08-M

Fig. 2: Multi-room installation with central and local sound

⚠

Danger - Electric Shock Risk!

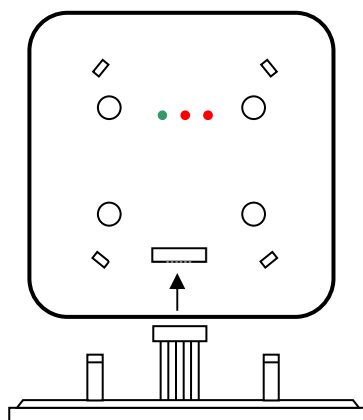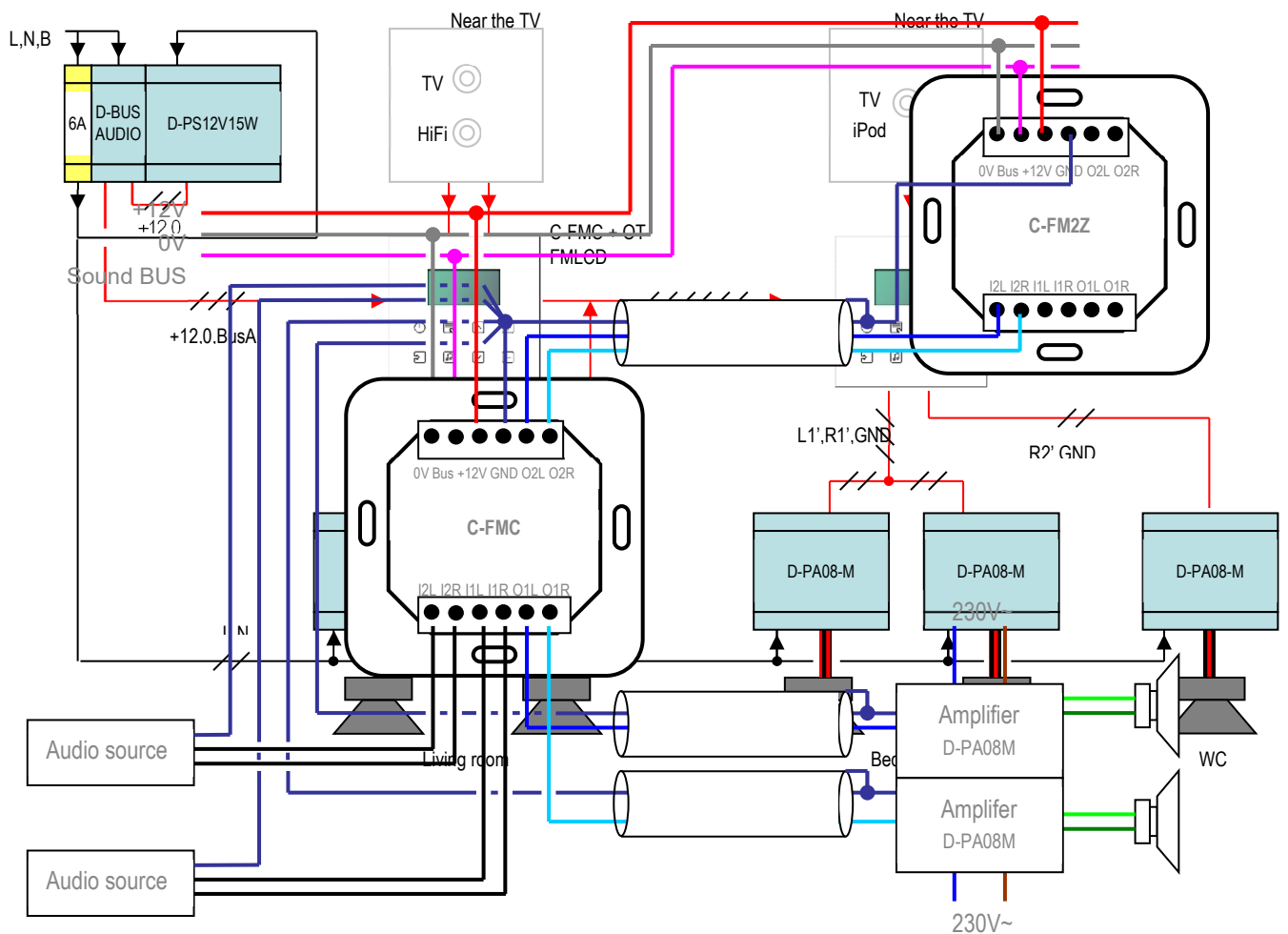Switch off the power before any intervention.

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Wiring Project:

Connection diagram:

L,N,B

6A | D-BUS AUDIO | D-PS12V15W

Near the TV

TV ◎

HiFi ◎

+12V
+12.0
0V

Sound BUS

+12.0.BusA

Near the TV

TV ◎
iPod

0V Bus +12V GND O2L O2R

C-FM2Z

I2L I2R I1L I1R O1L O1R

C FMC + OT
FMLCD

0V Bus +12V GND O2L O2R

C-FMC

I2L I2R I1L I1R O1L O1R

L1',R1',GND

R2' GND

D-PA08-M | D-PA08-M | D-PA08-M

230V~

Audio source

Living room

Audio source

Amplifier
D-PA08M

Amplifer
D-PA08M

Bed

WC

230V~

VERY IMPORTANT:

The digital ground **0V** should not be connected to the analogical ground **GND** at any point of the installation as it can create noise in the sound.

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