LM4.6

Installation & User Guide

JAMO®

Congratulations

Congratulations on your purchase of the Jamo LM4.6 local input module.

The LM4.6 is an in-wall module that allows you to add a local source to the distributed ones from the AM4.6 hub. The local sources can only be heard in the zone (room) where it is connected as well as the sub-zone for that zone (if a sub-zone is connected), but will not be distributed to any other zones. The LM4.6 connects between the AM4.6 hub and the KP4.6 keypad using Cat5 or Cat5e cables.

Each zone can support two LM4.6, which allows you to connect two local sources in a zone.

The local source(s) can be controlled with a remote control through the KP4.6 keypads IR pass through to the LM4.6. The IR signal is routed, which means that the local source will only receive the IR signal when that local source is selected.

The LM4.6 front is made to fit the Decora™ standard faceplates (not included) available from many manufacturers on the market.

Content

Precautions

Do not install the KP4.6 in a double gang box that also has electrical installation in it. If installed next to electrical installation either a barrier-box or two single gang boxes must be used.

Do not install the KP4.6 close to dimmer switches as they generate noise.

Do not install the KP4.6 in areas with high humidity or outdoors.

The LM4.6 operates on 24V DC supplied through the CAT5e cable and can therefore often be installed in locations only permitted for Extra Low Voltage (ELV) equipment. If in doubt, check the wiring regulation for your application in your area.

Make sure the power supply is not connected to the AM4.6.

The maximum length of Cat5 is 100 feet (30m) from the AM4.6 hub to the KP4.6 keypad.

After all connections are made, the power supply can be connected to the AM4.6 hub.

Installation

The LM4.6 should be installed close to the local source location to avoid running long RCA cables between the two. Check all connections before mounting the LM4.6 into a standard UL/CSA approved single gang J-box.

The LM4.6 is "electrically" located between the AM4.6 hub and the KP4.6 keypad (fig. 1). Therefore for zones (rooms) where an LM4.6 or two LM4.6s are installed, the Cat5 cable runs from the AM4.6 through the LM4.6(s) to the KP4.6. See pages 6 - 9 for further details.
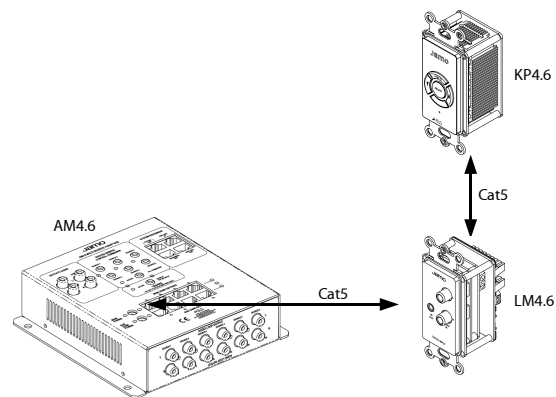

Fig. 1

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Cat5 Connections

Use a Cat5 or Cat5e cable to connect the LM4.6 to the AM4.6 keypad output. For the connection to the AM4.6 the Cat5 should be terminated in the RJ45 plug as per T568A standard. Fig. 2.

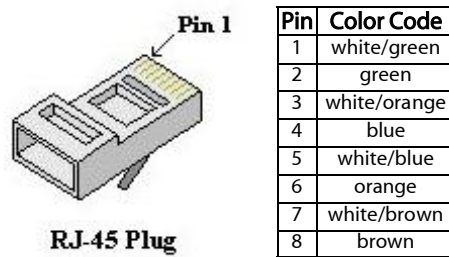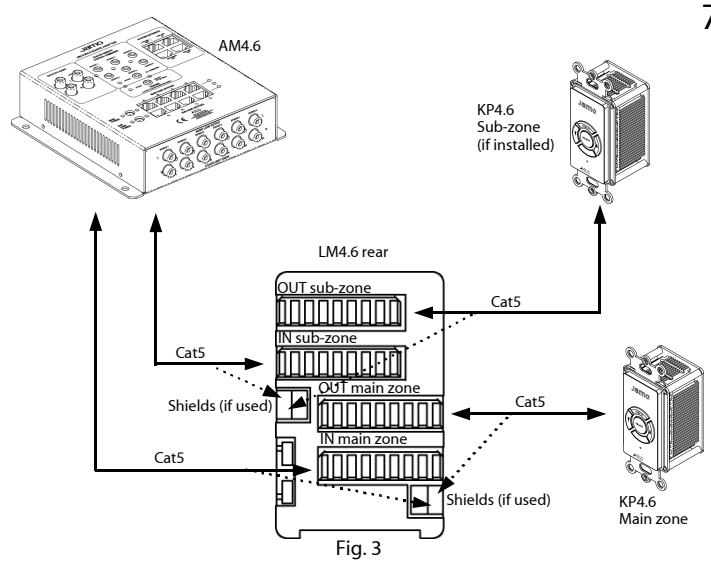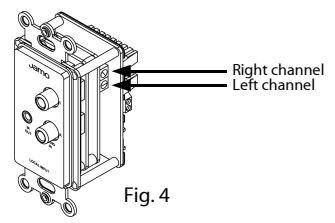| Pin	Color Code
1	white/green
2	green
3	white/orange
4	blue
5	white/blue
6	orange
7	white/brown
8	brown

Fig. 2

The LM4.6 has 110 punch-down connectors for connecting the Cat5 cable. Be sure to use the correct in and out connectors (fig. 3) and pay attention to the color coding on the connectors.

If using shielded Cat5 cable, connect the shields to the green terminal blocks as shown on fig. 3 (dotted arrows).

AM4.6

KP4.6
Sub-zone
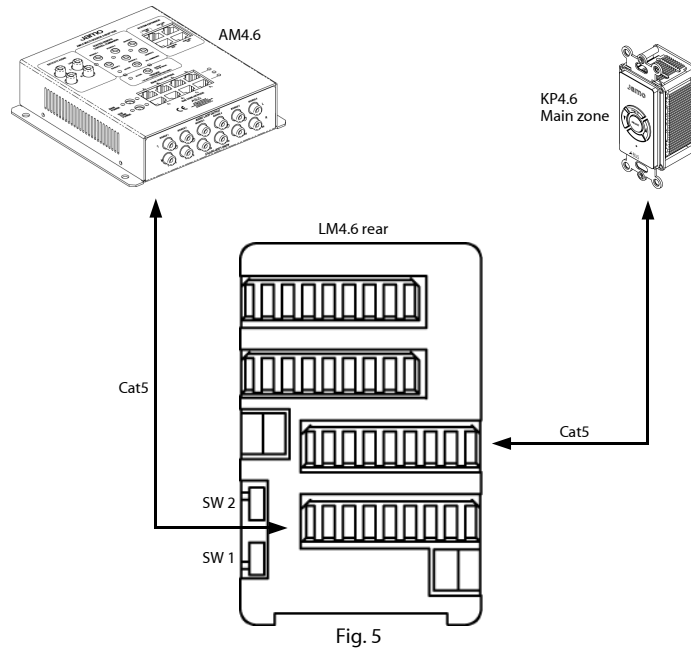(if installed)

LM4.6 rear

OUT sub-zone

Cat5

IN sub-zone

Cat5

OUT main zone

Cat5

Shields (if used)

IN main zone

Cat5

Shields (if used)

KP4.6
Main zone

Fig. 3

Level Adjustments

The LM4.6 has gain control for the local source input.
Turning clockwise increases level and counter-clockwise
decreases it.

Right channel
Left channel

Fig. 4

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Settings

The LM4.6 must be set for Local 1 or Local 2 depending on the installation. Fig. 5 and Fig. 6.

ONE local source in a zone (fig. 5).
Set SW 1 to ON
Set SW 2 to OFF

AM4.6

KP4.6
Main zone

LM4.6 rear

Cat5

Cat5

SW 2

SW 1

Fig. 5

TWO local source in a zone (fig. 6).
Local 1: Set SW 1 to ON and SW 2 to OFF
Local 2: Set SW 1 to OFF and SW 2 to ON

AM4.6

KP4.6
Main zone
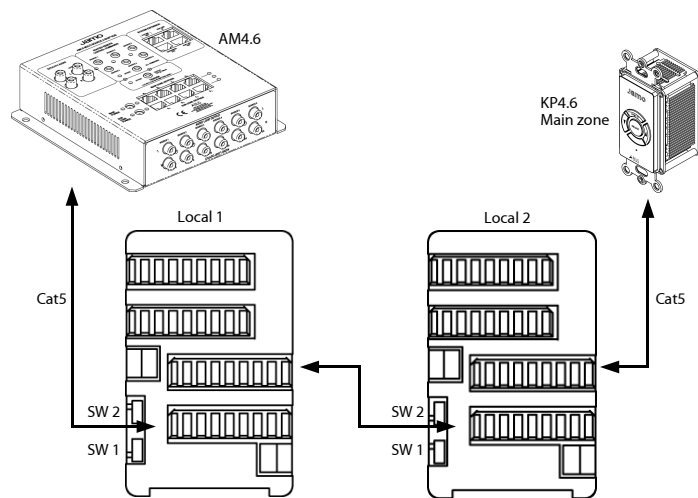
Cat5

Cat5

Local 1

Local 2

SW 2

SW 1

SW 2

SW 1

Fig. 6

Source Rotation on KP4.6

To be able to select the local input(s) with the SELECT button on the KP4.6 it must be set to rotate through the LM4.6(s). Press the volume DOWN and UP buttons simultaneously. After 4 seconds the LED will turn off and start flashing green. Release the buttons when the desired setting is reached.

One flash: Rotates through 6 sources from AM4.6.
Two flashes: Rotates through 6 sources from AM4.6 + Local 1.
Three flashes: Rotates through 6 sources from AM4.6 + Local 1 & Local 2.
Four flashes: No rotation (sources can not be selected from KP4.6.

Operation

The source(s) connected to the LM4.6(s) can be selected the following three ways:

1. From the KP4.6 keypad with the SELECT button (see Source Rotation page 9).

2. From LRC4.6 learning remote control. The LRC4.6 is pre-coded for LM4.6(s) selection.

3. From RC4.6 system remote control (local 1 only).

Specifications

Max line level inputs	2.2 V rms
Cat5 connections	110 punch-down, US Krone punch-down, Europe
Dimensions (WxHxD)	1.7"x2.8"x2.1" (42x70x54mm)
Weight	3.5oz (100g)
Max cable length	100 feet (30 m)
IR (Infra-red receiver)	Modulated 34-40 and 55-59 kHz
Power requirement	24 V DC @ 20 mA max

Limited Warranty

The warranty period will come into force as from the purchase date stated on the invoice. The warranty will apply for 2 years.

In case of warranty inquiries, please contact your dealer.

In case of request for service under warranty, enclose the original receipt.

Defects covered by the warranty:
Except for the defects stated below, the warranty covers any production and material defects of the product.

Defects not covered by the warranty:
- Defects arising from accidents, misuse, normal wear and tear, mis-maintenance, voltage variation, stroke of lightning, and other force major events.
- Defects arising from incorrect installation or operation.
- Defects arising from modification/repair/attempt of repair by a non-authorized service center or person.
- Defects arising form the use of non-original spare parts.
- Defects on products with altered or lacking serial number.
- Other defects due to conditions or circumstances beyond the supplier's control

Transportation costs for servicing are not covered by the warranty.

The supplier is liable only to the repair or replace defective parts or products. A replacement cannot exceed the value of the product under warranty.

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