



multiload

MoodMaker Scene-setting System

Multi-channel scene-setting system
with up to four Scene-select Wall Plates

System components

Up to four Scene-select Wall Plates
Master Set-up Unit
Up to four Auxiliary Set-up Units
Related product options

Contents

MoodMaker Scene-setting System overview	2
MoodMaker Wall Plate	
Overview and operation	3
Installation	4
Master Set-up Unit	
Technical specification and installation	5
Global control connection	6
Programming	7
Auxiliary Set-up Unit	8
Related product options	9
Wiring diagrams	
Lighting Contactor LC100R/T	9
Lighting Contactor LC200R/T	10
Trailing-edge Dimmer ADT400	10
Leading-edge Dimmer AD2500	11
LEDrose LDR100	11
VoltMaster	12

Product order codes

MMSU

Master Set-up Unit

MMSU/AUX

Auxiliary Set-up Units

MMWP-XX*

Scene-select Wall Plates where*
denotes finish.

See page 3 for standard finishes.

A wide range of customised finishes
are available.

Please contact Multiload to discuss

Related product options

ADT400

Trailing-edge Dimmer

AD2500

Leading-edge Dimmer

Lighting Contactors

LC100R/T

Single relay unit

LC200R/T

Double relay unit



Scene-setting System overview

Function

MoodMaker Scene-setting System enables the user to be in complete control of their lighting installation.

Easy to install, easy to use, and requires no commissioning.

MoodMaker System components:

Scene-select Wall Plates (MMWP)

Up to four Scene-select Wall Plates per MoodMaker System

Master Set-up Unit (MMSU)

Six channel Master Set-up Unit. One per system

Auxiliary Set-up Unit (MMSUAUX)

Six channel Auxiliary Set-up Unit to expand system to any number of channels

Related product options

To increase options available, including additional switching functions Leading-edge and Trailing-edge dimmers.

See Related Product Options on page 9

Physical data

MoodMaker Set-up Unit and Auxiliary

Weight

1.6kg

Finish

Smoked grey polycarbonate with smoked transparent cover

Dimensions

W: 180mm L: 255mm D: 75mm

Scene-select Wall Plates (MMWP)

- Fits into standard single-gang back boxes
- Supplied in a wide range of finishes and styles
- Customised plates on request

See pages 3 and 4

Master Set-up Unit (MMSU)

MoodMaker Master Set-Up Unit (MMSU)

- Six channel Master Set-up Unit
- One per system

Comprises:

Top board

Tactile finger adjustment:

- To programme scenes one to four with six channels
- To set fade times between scenes, full 'on' and 'off'
- To set brightness of LEDs on Wall Plates in room

Base board

For connection of mains inputs, mains outputs, with 0-10V signal outputs for up to six channels, and global connection

See pages 5-7

Auxiliary Set-up Unit (MMSUAUX)

Six channel Auxiliary Set-up Units expand the system to any number of channels.

See page 8

Related product options

Lighting Contactor (LC100, LC200)

For additional switching of channels

Single relay unit (LC100)

Double relay unit (LC200)

Trailing-edge Dimmer (ADT400)

Delivers trailing-edge phase-control mains dimming

Leading-edge Dimmer (AD2500)

Delivers leading-edge phase-control mains dimming

See pages 9-15



Scene-select Wall Plate overview and operation

MoodMaker Wall Plates are an integral part of the MoodMaker Scene-setting System and cannot be used in conjunction with third party products.

Scene-select Wall Plates are suitable for any number of lighting channels or circuits, giving extremely smooth dimming and fading. They provide a choice of six scenes, comprising four scenes plus full 'on' and 'off'.

Up to four Wall Plates per system can be paralleled together, i.e. star-wired or daisy chained, and connected to the top board of the Master Set-up Unit (MMSU) using 8-core signal, alarm-type or stranded Cat5 cable.

An LED indicator shows the scene selected and this is duplicated on all Wall Plates connected to the system.

LED wall plate brightness can be adjusted on the MoodMaker Master Set Up Unit. See LED intensity below.

Finishes and customisation

Available in a wide range of finishes and styles. Order codes are listed right.

Standard finishes available: Antique Bronze, Antique or Polished Brass, Polished or Satin Stainless, Satin Chrome, Black, White and Gold.

Other manufacturer's gridplates. Many other finishes are available, and plates from most plate manufacturers can be supplied.

Custom screening of plates is available, please call us to discuss. 020 7794 9152

Operation

Scene selection is enabled by smooth rotation of a digital encoder which has no end stops.

Turning the rotary knob clockwise will select the next scene up (up to full 'on') and anti-clockwise rotation the next scene down (down to full 'off').

The knob operates a rotary encoder so that rotation can be continuous in either direction with no risk of damage by crashing an end-stop.

Scene indication

An LED will indicate which scene is selected on all connected Scene-select Wall Plates: one white LED for full 'on'; four blue LEDs for scenes; one green for full 'off'. The selected scene is also indicated by an LED on the MoodMaker Set-up Unit.

LED intensity

LED brightness on the Scene-select Wall Plates is adjusted by using the active and standby presets on the top board of the Master Set-up Unit. See page 7



Product order codes

Scene-select Wall Plates MMWP-XX*
where* denotes finish, as follows:

Standard finishes:

Antique Brass	MMWP-AB
Antique Bronze	MMWP-BM
Polished Brass	MMWP-PB
Polished Stainless	MMWP-PS
Satin Stainless	MMWP-SS
Satin Chrome	MMWP-SC
Gold	MMWP-GO
Black	MMWP-BL
White	MMWP-WH

Specials:

For other finishes, plates from other manufacturers and for custom screening, please call us on +44 (0)20 7794 9152 to discuss



Scene-select Wall Plate installation

Installation should be carried out by a suitably qualified person in accordance with good electrical practice and the appropriate national and local wiring regulations.

Scene-select Wall Plate(s) wired to pluggable terminal on under side of Set-up Unit top board

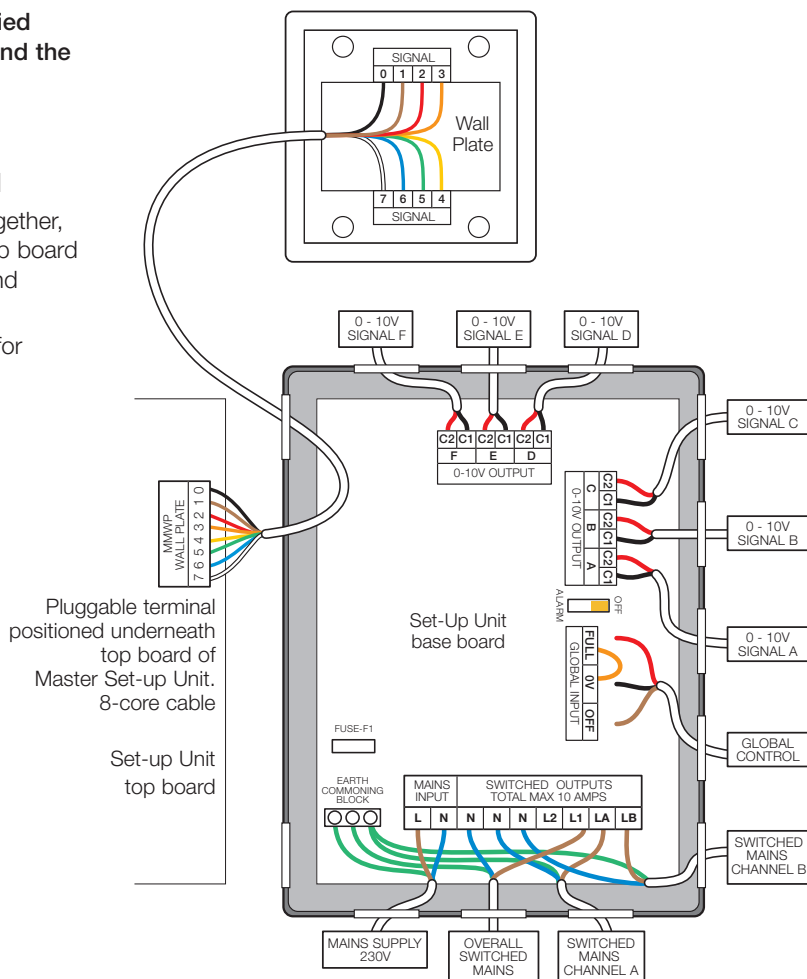
Up to four Scene-select Wall Plates can be paralleled together, i.e. star-wired or daisy chained, and connected to the top board of the Master Set-up Unit (MMSU) using 8-core signal and alarm-type (eg. RS365-593) or stranded Cat5 cable.

Pluggable 8-way terminals (numbered 0-7) are supplied for connection to the top board of the MMSU.

Wiring connections

Suggested cable colours:

0 : black	4 : yellow
1 : brown	5 : green
2 : red	6 : blue
3 : orange	7 : white

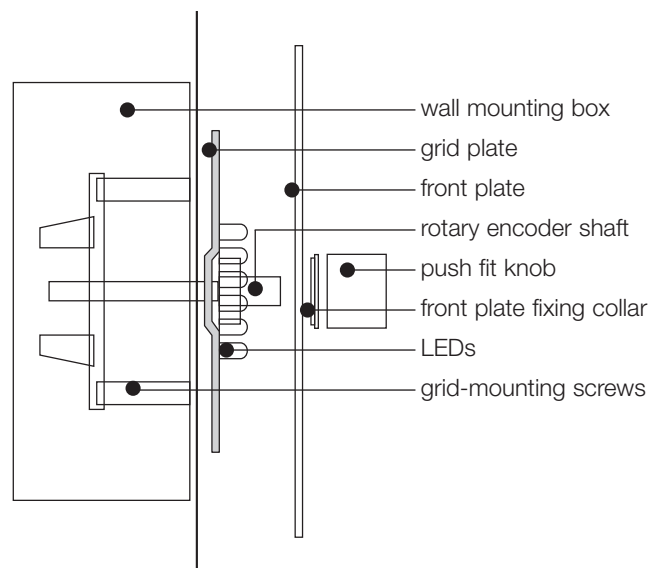


Screw-less Wall Plate assembly into wall box

Max distance from Master Set-up Unit to Wall Plate 150m.
One-gang screwless plate. Fits into a standard UK surface or recessed backbox. Minimum depth of backbox 36mm.

- 1 Terminate the wiring into the correct terminals.
- 2 Using the grid plate mounting screws, screw the grid plate into the wall box until the plate is just below flush with the wall. Do not fully tighten the mounting screws, as generally the grid plate will need a margin of play in the wall box for correct fitting.
- 3 Place the front plate onto the rotary encoder switch shaft and locate on to the LEDs. Screw on the plate fixing collar; the LEDs should protrude just above the surface of the front plate.
If the grid plate is too deep, ie. the mounting screws have been done up too much, the LEDs will not protrude.
If the mounting screws have not been tightened enough, the fixing collar will not pull the front plate tight against the wall. In either of these cases, remove the plate fixing collar and front plate and readjust the mounting screws.
- 4 Tighten the front plate fixing collar using the plastic spanner provided to avoid scratching.
- 5 Push the knob onto the rotary encoder switch shaft ensuring a good fit, use a small amount of tape around shaft if necessary.

Plate assembly





Master Set-up Unit technical specification and installation

Installation should be carried out by a suitably qualified person in accordance with good electrical practice and the appropriate national and local wiring regulations.

Mains supply

230V 50Hz nominal

Internal fusing: 10A F 1¼" x ¼ or 5 x 20mm

Mains voltage connections

On Set-up base board

Each terminal can accept 2 x 4mm² cable

9-way terminal block labelled: L N N N N L2 L1 LA LB

Mains supply input terminals

Switched live outputs:

L1 = Overall mains output:

switches 'off' when 'off' scene is selected after pre-set delay.

L2 = Standby load mains output:

switches 'on' as L1 switches 'off'.

LA and LB = Independently switched mains outputs for channels A and B. These two channels have their own switched output which will switch 'off' when the adjusted output signal for the channel goes below approximately 1V, i.e. below minimum brightness for most loads.

NB. If mains supply is interrupted the unit reverts to FULL ON for security. If this is not required global OFF can be fitted separately.

Maximum switching capacity: Total combined for the three switched outputs L1, LA, and LB together: maximum 10A. Suitably rated lighting contactors (connected on one or more of the switched outputs) can be used to switch larger lighting loads.

Related product options: The load capacity of the system is increased when using related product options as follows: Trailing-edge Dimmer (ADT400), Leading-edge Dimmer (AD2500) and Lighting Contactors (LC100R/T, LC200R/T). These units only require the 0-10V control signal for mains switching and dimming from MoodMaker.

Dimming signal outputs

Each terminal can accept 1 x 2.5mm² cable

Six 0-10V signals (one per channel)

Capacity of each channel:

20 standard drivers or ballast input equivalents.

C1 = 0V, negative (can be commoned)

C2 = output signal, 0-10V positive

Dimming signal output connections

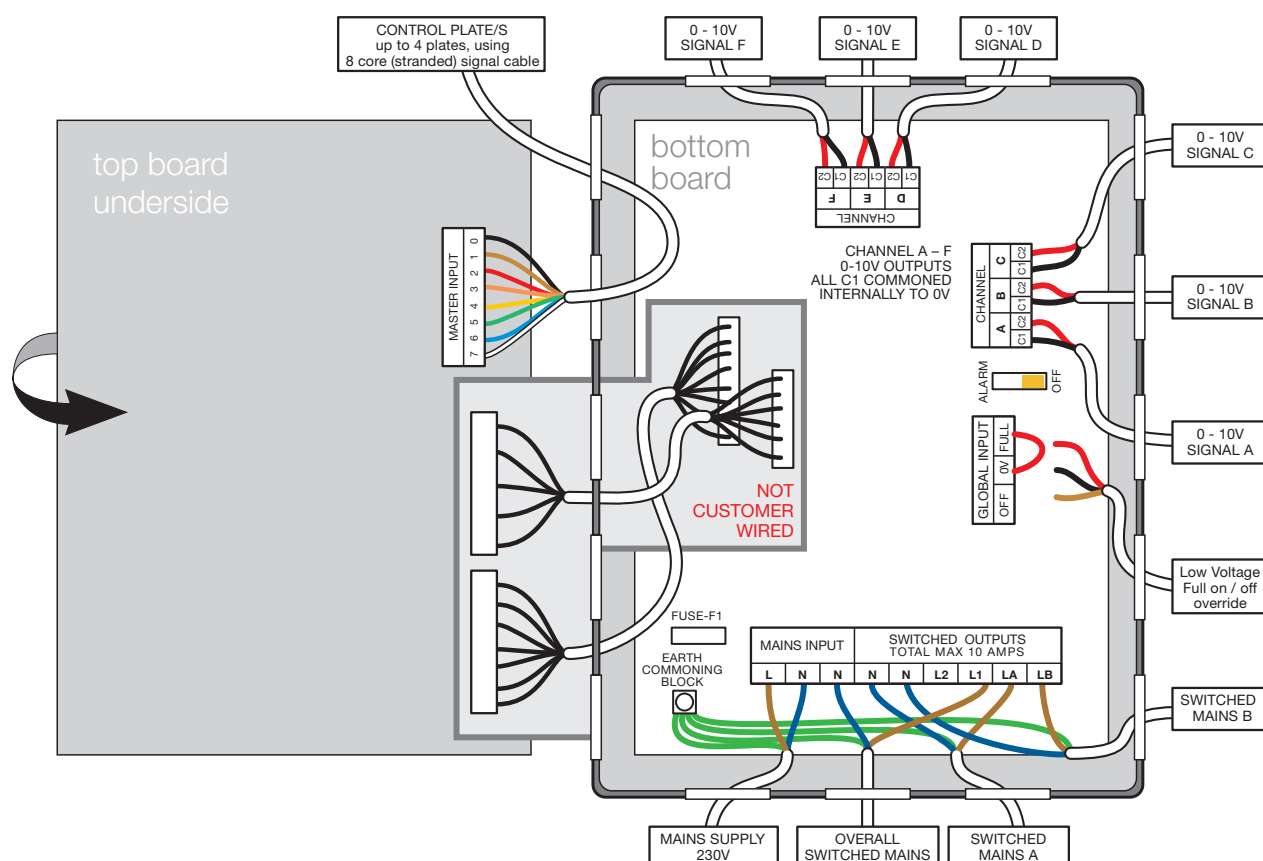
Channel A,B,C:

6-way terminal block labelled C1, C2 for each channel A B C.

Channel D,E,F:

6-way terminal block labelled C1, C2 for each channel D E F.

For Global Control Connection (see page 6)





Master Set-up Unit global control connection

Global control connection

On Set-Up Unit base board:

- Each terminal can accept 1 x 2.5mm² cable
- Overrides local scene selected by Scene-select Wall Plates
- 3-way terminal labelled; OFF, 0V, and FULL
- Low voltage connection.

FULL Terminal

Normally connected continuously by factory fitted link to 0V to give normal operation.

Override to FULL ON

Remove link before fitting volt free switches.

When FULL terminal is not connected to 0V, (ie. when any one of the switches or volts free alarm contacts connected in series to the FULL terminal is OPEN) this imposes FULL brightness.

OFF Terminal

Normally not connected to give normal operation.

When switch is connected to 0V, this imposes OFF state.

PIR

Volts free Normally Closed type (NC) ie. when presence is detected a PIR switch opens to disconnect OFF terminal from 0V, thus turning the MoodMaker ON to the scene selected by Scene-select Wall Plates. Several such PIR may be connected in series so that presence on any one will disconnect the OFF terminal.

Override to on

Switches (NC) can be connected in series (with or without PIRs) and opening any one of them will turn the MoodMaker 'on'.

Override to off

Switch connected in parallel across the OFF and 0V terminals, when closed will override the PIRs and switches to turn the MoodMaker 'off'.

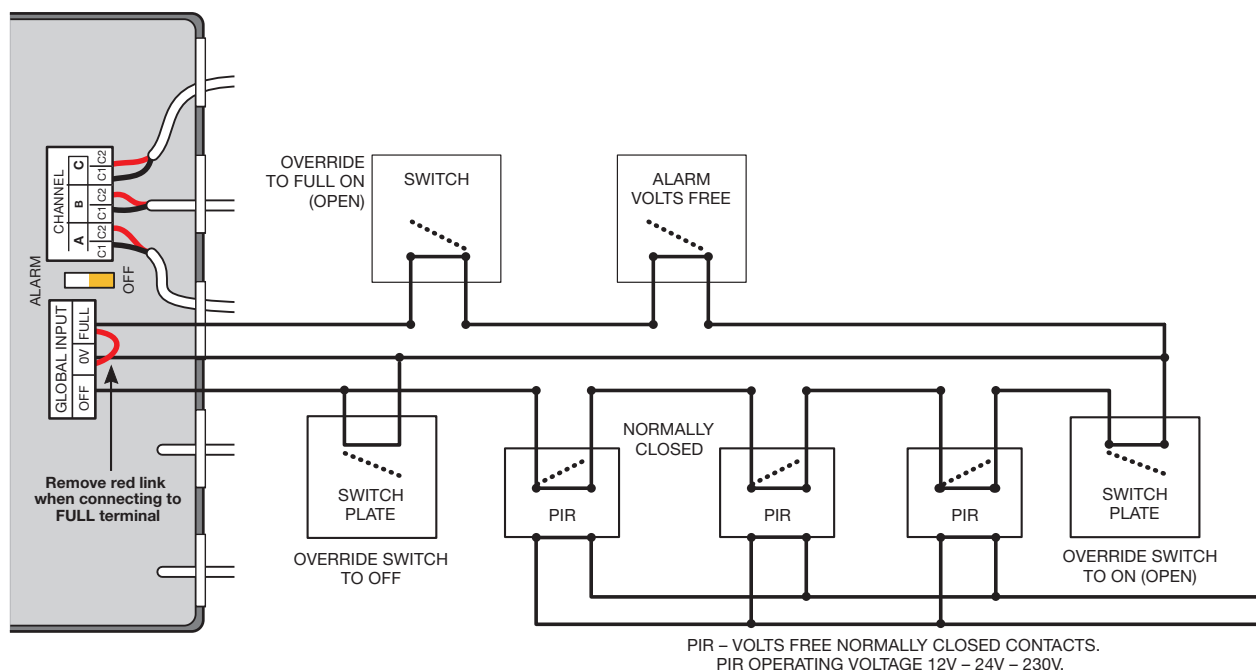
ALARM / OFF switch

When alarm switch is set to OFF, the OFF terminal function overrides the FULL terminal function. When alarm switch is set to ALARM, the FULL terminal function overrides the OFF terminal function.

MoodMaker linking:

such as a last man out master key switch.

When a number of MoodMakers are in use the OFF and FULL terminal functions can be commoned between them, by: commoning their 0V terminals (Mandatory for Master and Auxiliary Set-up Units); commoning OFF and/or FULL terminals.





Master Set-up Unit programming

Programme each of the four scenes

Scenes are created using the six channels on the Master Set-up Unit (and additional channels on the Auxiliary Set-up Unit, when used).

1 To make set up easier, set fade time to 1 sec

- Turn finger-turn adjuster **A** fully anti-clockwise to fastest setting: 1 sec
- Fade time can be re-adjusted later from 1 – 60 secs

2 Select the scene to be programmed

- A red LED **B** will indicate the scene option selected.
- **Either:** select scene using wall plate,
or: use SW1 and SW2 **F** on Set-up Unit as follows:
- To select the next scene up press SW1 and hold down, then press SW2 and hold down; release SW1 first, then SW2.
- To select the next scene down press SW2 first and release SW1 last.

3 Set channel brightness levels

Rotate the finger-turn adjusters **C** below the selected scene LED **B** to set the brightness for each channel in turn.

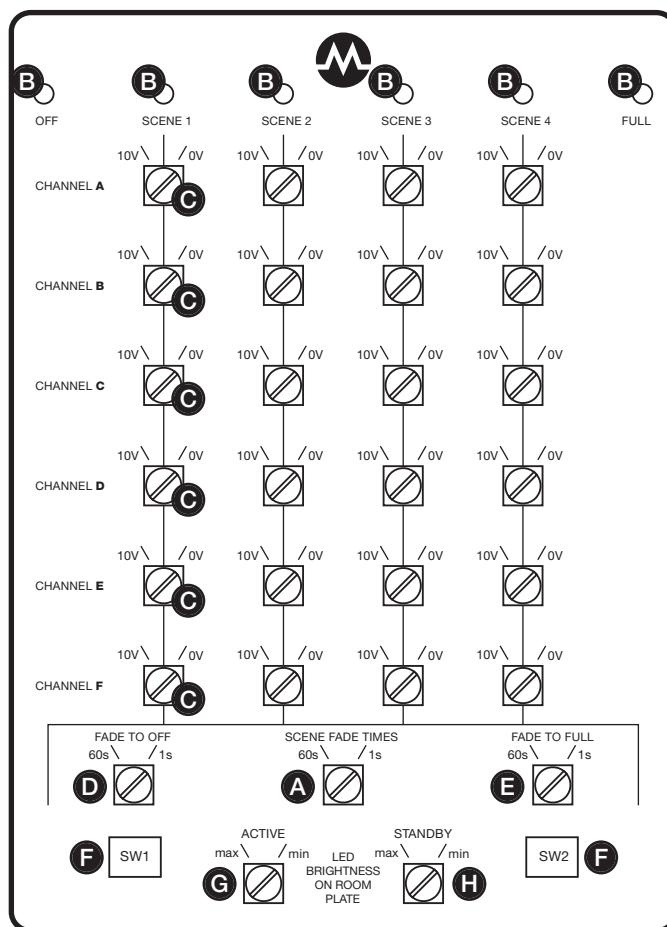
Once the adjustments are made the levels set are permanent unless manually readjusted.

4 Set fade times between scenes. Use:

- Adjuster **A** to set fade times between scenes. 1 – 60 secs.
- Adjuster **D** to set fade time to Off. 1 – 60 secs.
- Adjuster **E** to set fade time to Full brightness. 1 – 60 secs.

5 Set LED brightness shown on room plate

- Use active adjuster **G** to set brightness on the room plate LEDs during scene selection.
- Use standby adjuster **H** to set continuous brightness shown on the room plate LEDs after active brightness has faded away (after a few seconds). This eliminates any distracting glare.





Auxiliary Set-up Unit installation and programming

Used to expand MoodMaker Scene-setting System to any number of additional channels

Installation (base board)

The mains input and output terminals, and the 0-10V signal terminals are connected as per the Master Set-up Unit. See page 5 – Master Set-up Unit Technical Specification and Installation.

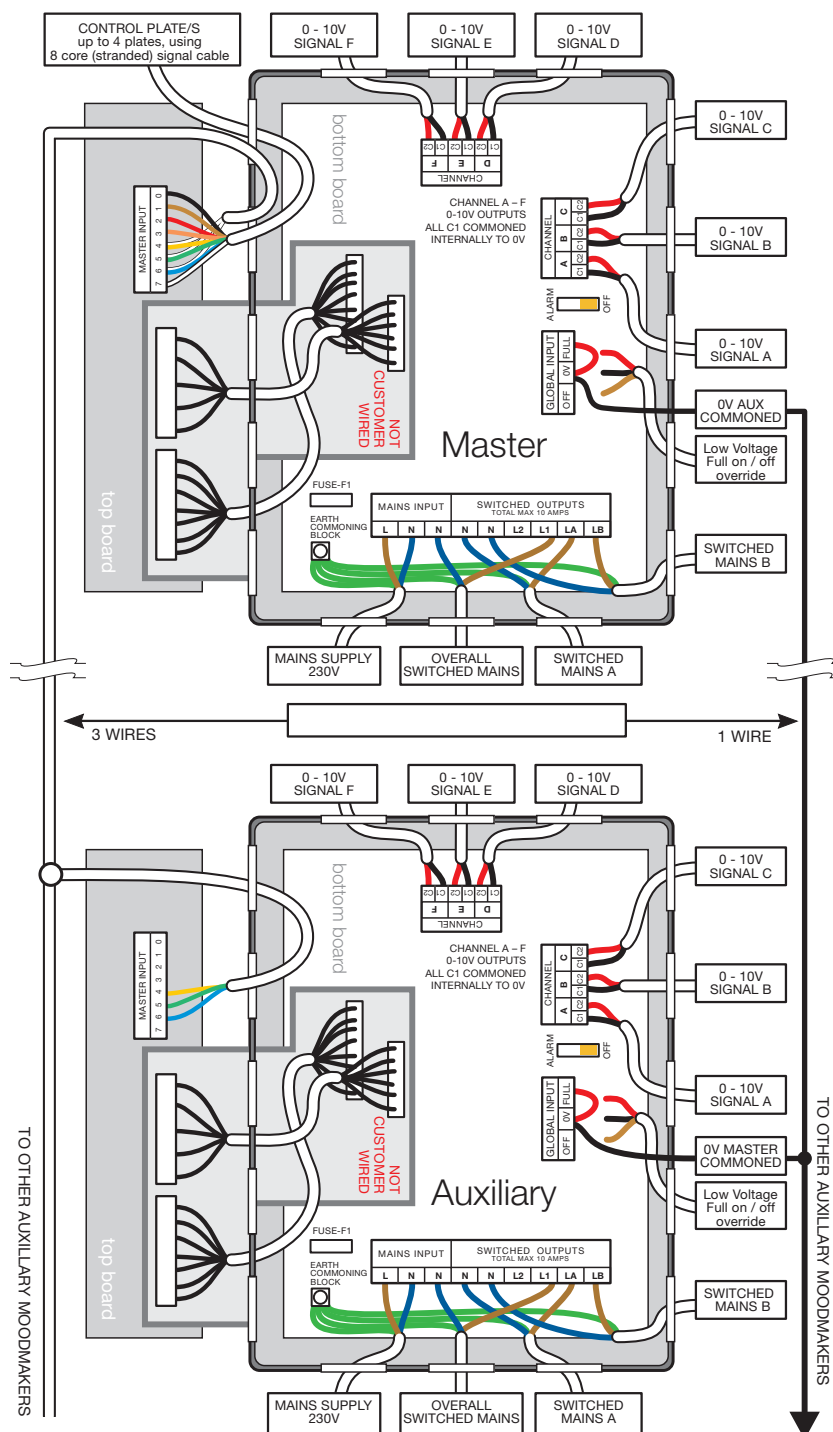
Please note 4-wire connection between MoodMaker Master and Auxiliaries:

- 0V Ground connect to 0V of Global output
- Control Plate terminals – connect 4,5,6 as shown below

Programming

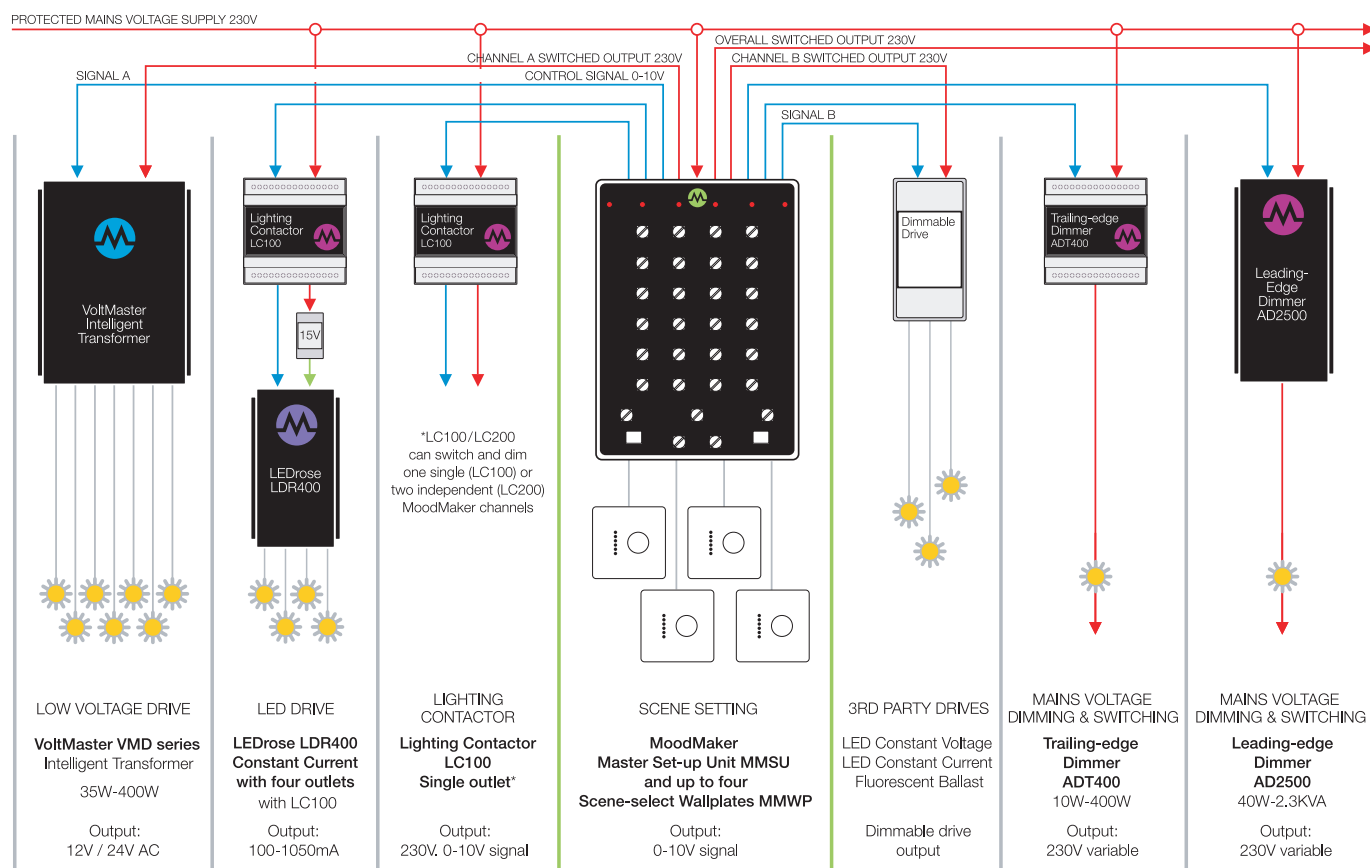
Programming the Auxiliary Set-up Unit is the same as for the Master Set-up Unit with some exceptions:

- Wall Plate LED brightness is set up only on the Master Set-up Unit. Therefore ACTIVE and STANDBY adjusters are omitted on the Auxiliary Top Board. See page 7
- Scene select buttons SW1 (F) and SW2 (F) have been omitted. To change scenes refer to description 2 on the Master Set-up Unit. See page 7



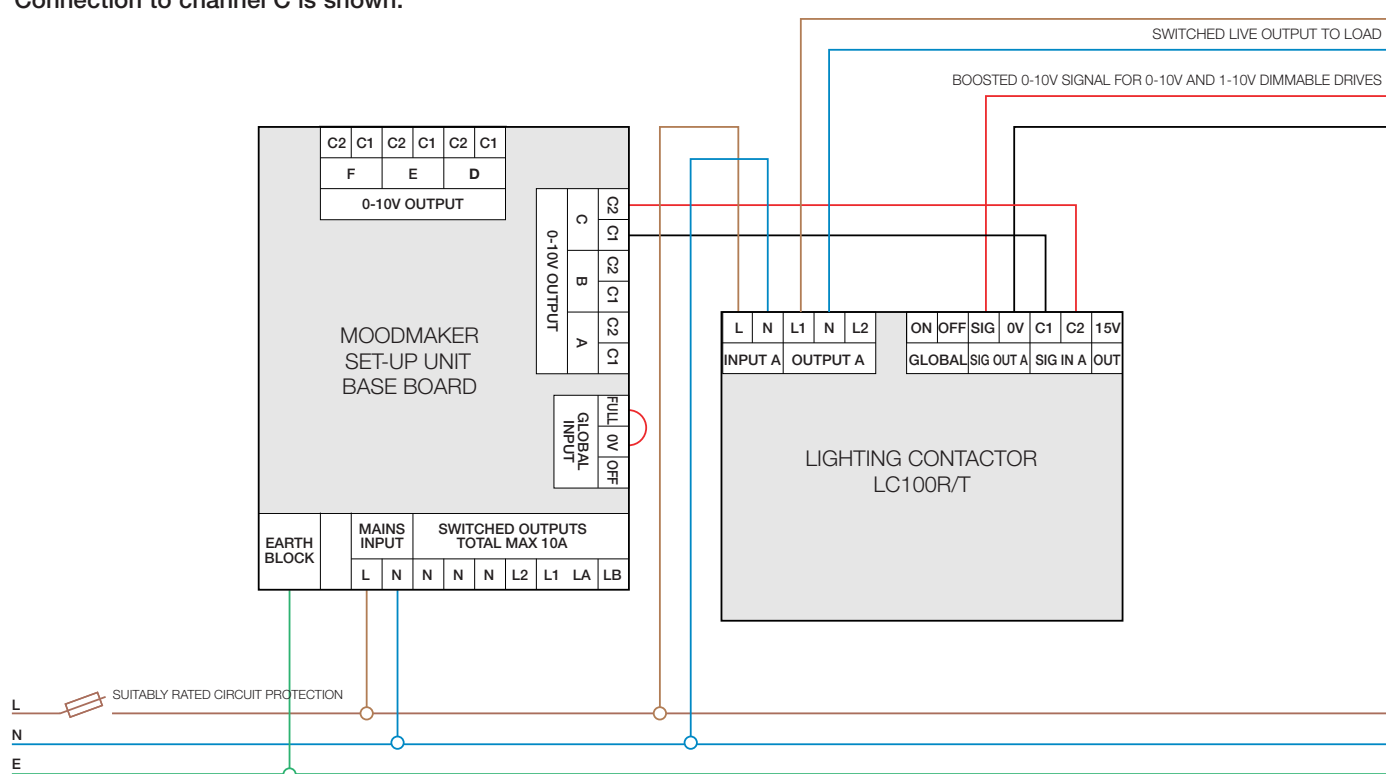


MoodMaker Scene-setting System related product options



Set-up Unit MMSU wired to Lighting Contactor LC100R and LC100T

Lighting Contactor LC100R/T can be connected to any MoodMaker channel output.
 Connection to channel C is shown.

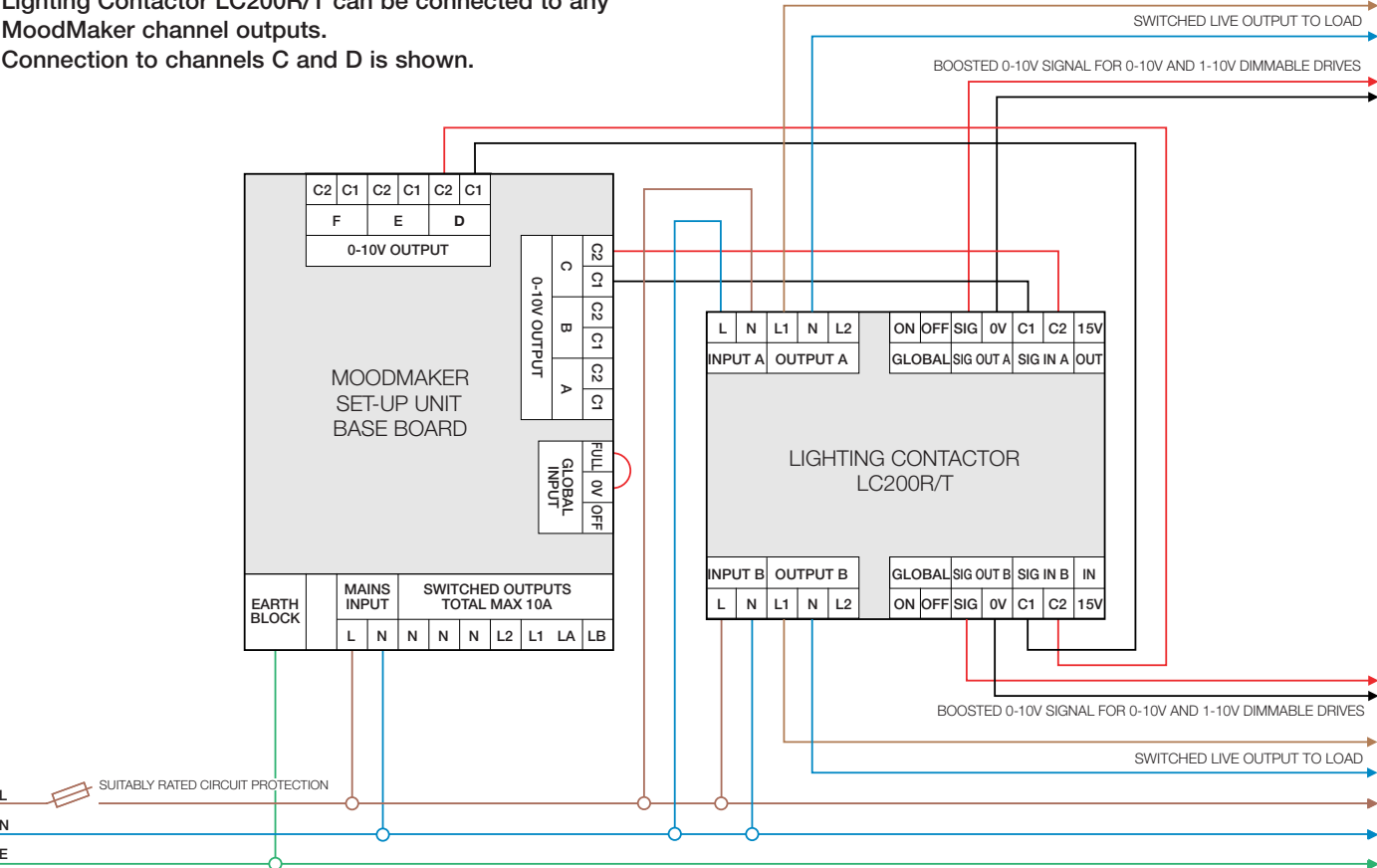


DRAWING NOT TO SCALE WD-MM-LC100. ISS-1-0116



Set-up Unit MMSU wired to Lighting Contactor LC200R and LC200T

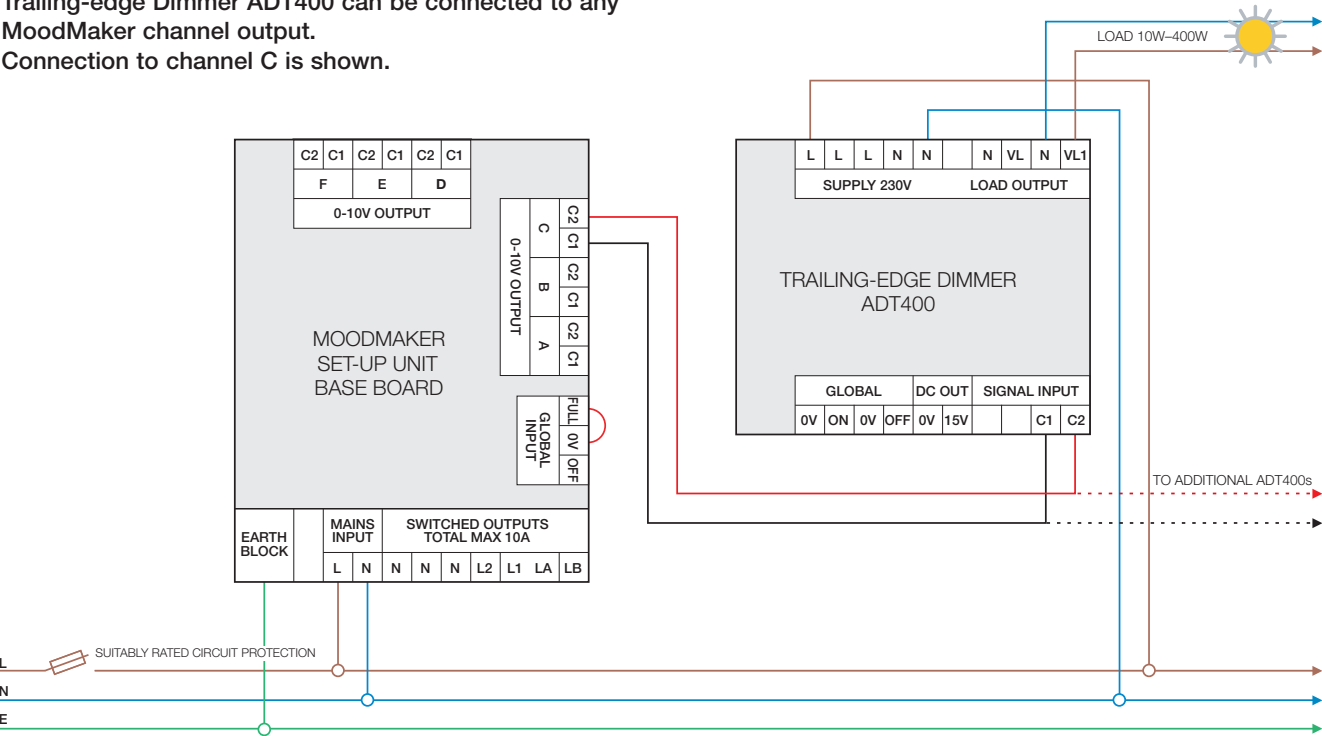
Lighting Contactor LC200R/T can be connected to any MoodMaker channel outputs.
Connection to channels C and D is shown.



DRAWING NOT TO SCALE WD-MM-LC200. ISS-1-0116

Set-up Unit MMSU wired to Trailing-edge Dimmer ADT400

Trailing-edge Dimmer ADT400 can be connected to any MoodMaker channel output.
Connection to channel C is shown.

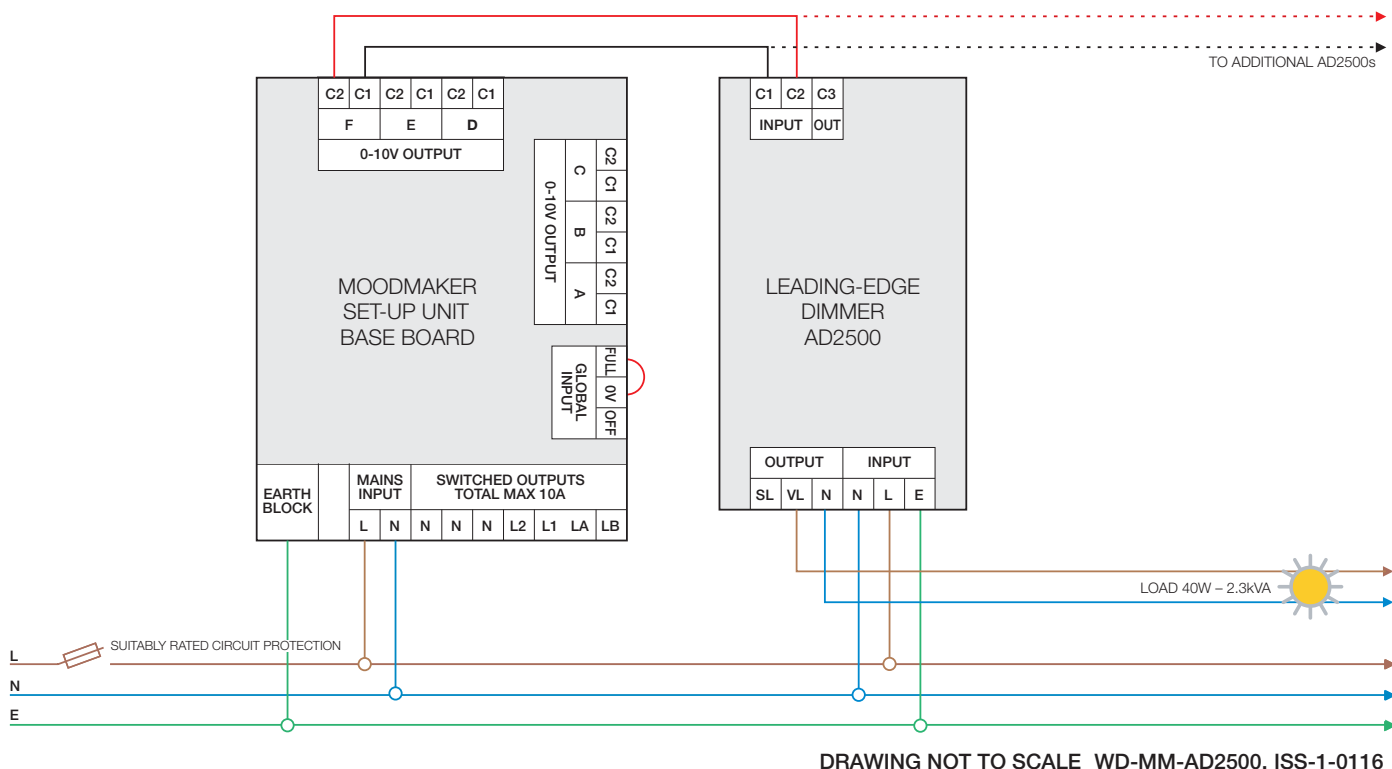


DRAWING NOT TO SCALE WD-MM-ADT400. ISS-1-0116



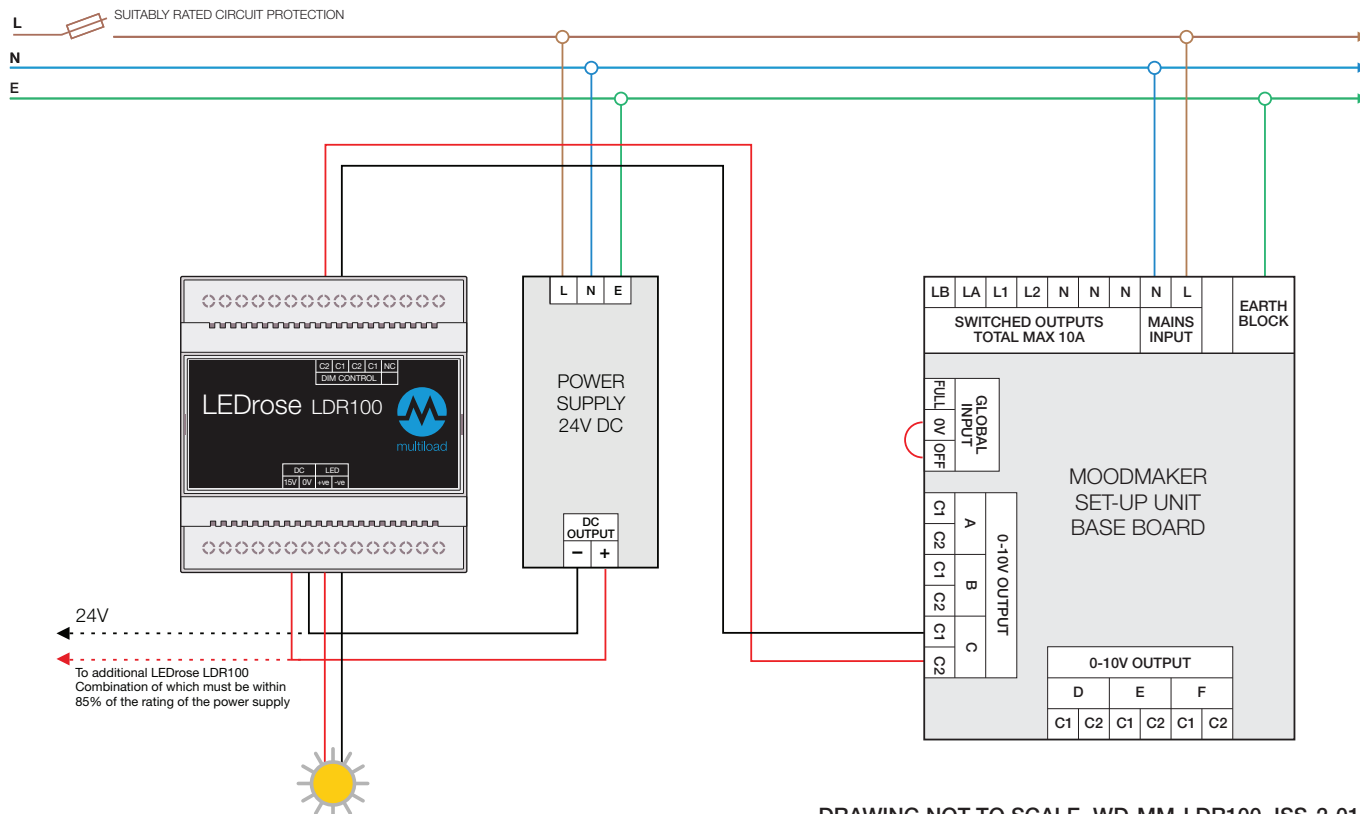
Set-up Unit MMSU wired to Leading-edge Dimmer AD2500

Leading-edge Dimmer AD2500 can be connected to any MoodMaker channel output.
Connection to channel F is shown.



Set-up Unit MMSU wired to LEDrose LDR100

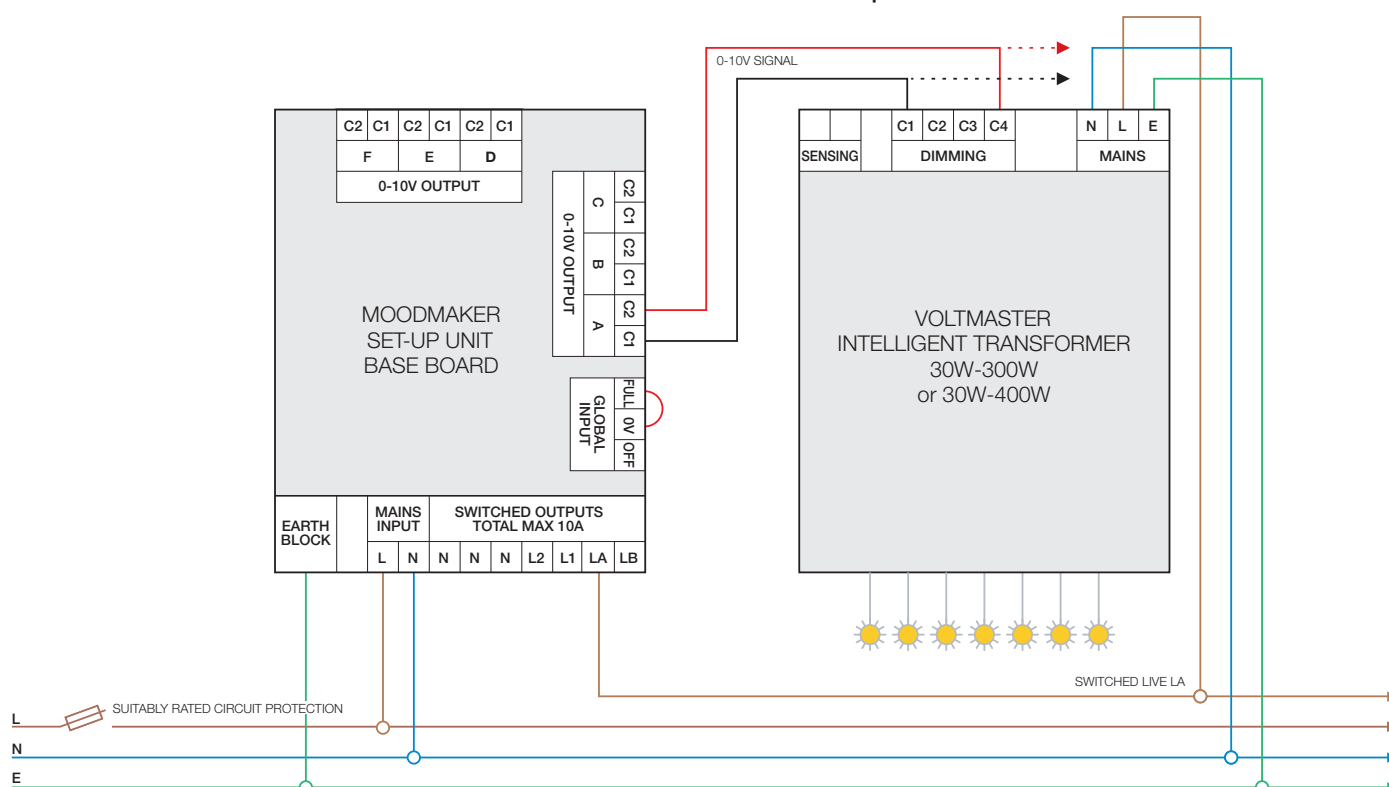
LEDrose LDR100 can be connected to any MoodMaker channel output.
Connection to channel C is shown.





Set-up Unit MMSU wired to VoltMaster VMD series

VoltMaster can be connected to channels A and B and wired to switched outputs LA and LB



DRAWING NOT TO SCALE WD-MMSU-VMD. ISS-1-0116