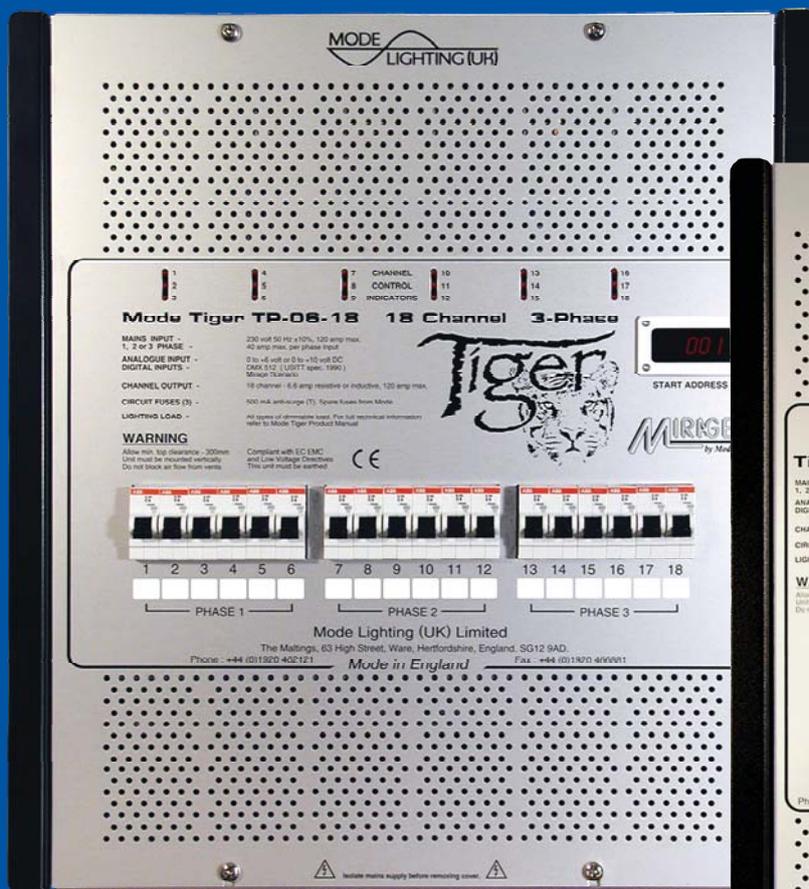




Mode Tiger Dimmable Power Unit



MODE LIGHTING (UK) LIMITED

The Maltings, 63 High Street, Ware, Hertfordshire, SG12 9AD, England.

Tel: +44 (0) 1920 462121 e-mail: sales@modelighting.com Fax: +44 (0) 1920 466881

MODE LIGHTING (UK)



Designed for a variety of projects from Bars, Restaurants and Hotels to Boardrooms, Retail Displays and Residential properties the Tiger System from Mode Lighting offers the user simple reliable scene setting control. Designed for small to medium scale projects, operation can be divided into ten separate areas with each area having its own control plate and its own lighting scenes.

Additional features including all area Master Control, room partitioning and sensor inputs make the Tiger System ideal for many different applications. Tiger systems are designed to be programmed using the control plates themselves with no external programming tools or PC required allowing for systems to be commissioned quickly and easily

Tiger Units can be configured on site to operate leading edge mains dimmable loads, switched mains loads and 1-10v controlled loads as standard.

The Tiger Power Units are available in four different sizes, each of which can be installed as a Single Phase or Three Phase Supplied unit of Modular construction which can be connected together to make systems up to 99 circuits in size. Unit capacities are as follows:-

TP-10-06 6x10A
TP-06-09 9x6A
TP-10-12 12x10A
TP-06-18 18x6A

There is also a "mini Tiger" available, the SPP-06-08 which offer eight circuits of 6A (four of which can be set to switched or 1-10v control) in a Single Phase only package ideal for smaller installations and residential applications.

This manual details the connection and programming information for the control plates for the Tiger System.

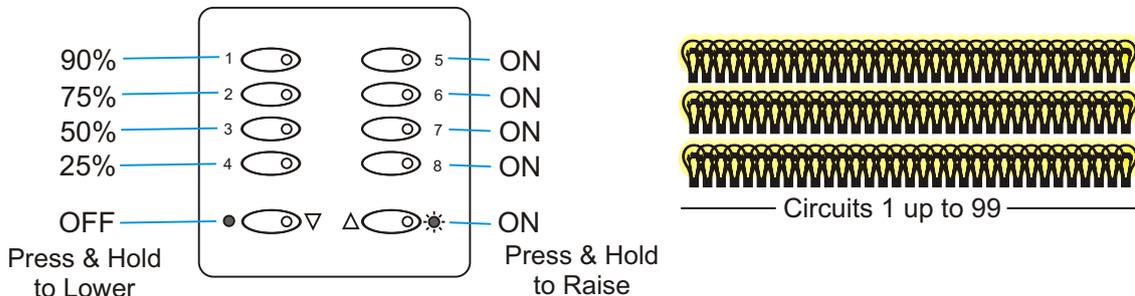
For details on the installation and wiring of the Tiger Units, including further information on compatible load types, details of Alarm Overrides and 1-10v controlled loads please refer to the separate installation manuals.

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MODE LIGHTING (UK)

Default Operation

By default all control plates are set to operate area one (See Page 17 for details of how to change plate addresses). All circuits are activated in area one and will operate to default levels as shown below. This allows a Tiger System to be installed and checked for correct dimming operation prior to full programming of lighting scenes.



The control plate will operate all circuits on the system up to a maximum of 99 circuits.

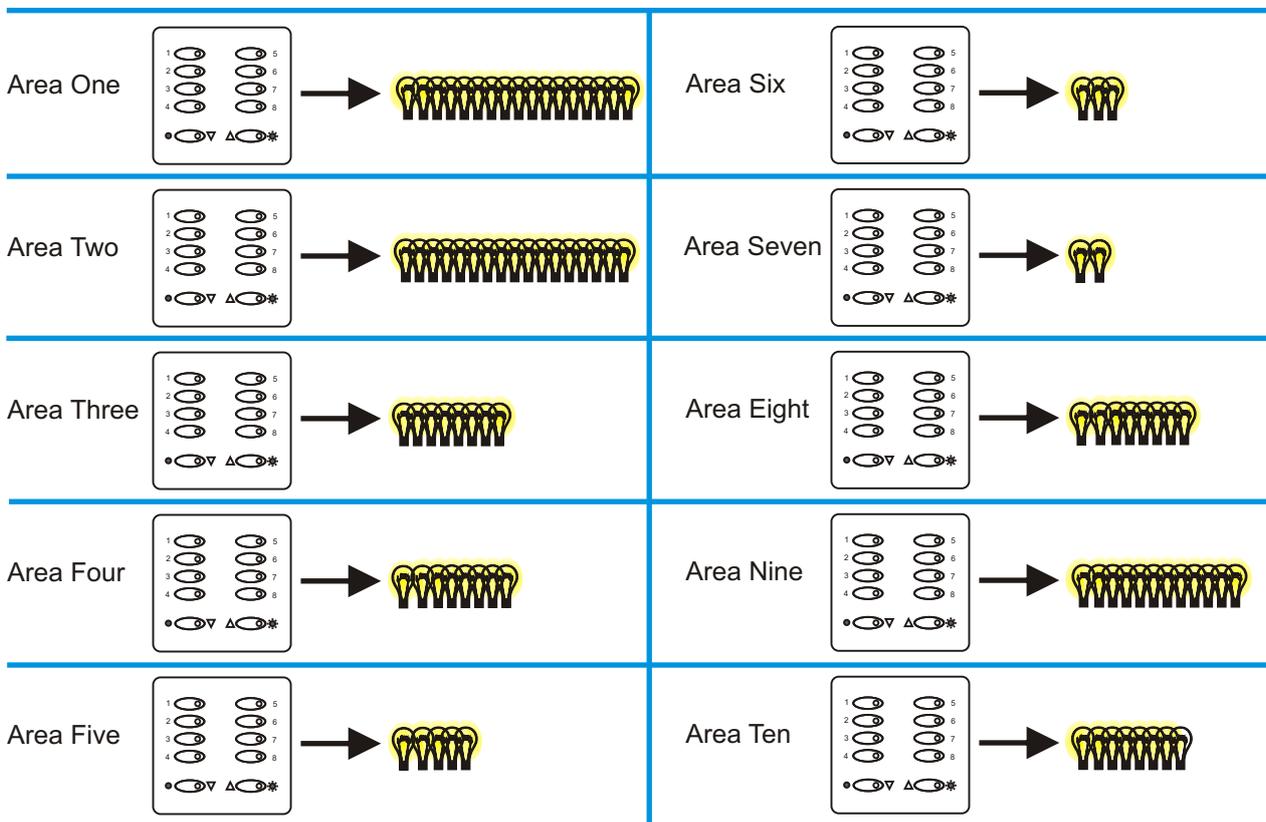
Creating a Multi Area Control System

A Tiger System can be divided in to ten separate areas of control with each area typically having its own control plate. Applications might include different floors of a building, bars & restaurants with multiple areas and partitioned function rooms.

By default circuits on a system are set to operate from a control plate set to area 1. All other areas within the system are blank with no circuits assigned and no levels set.

Programmable Options Example

Control can be divided across up to ten separate areas (multiple areas are used for partitioned rooms). Any circuits can be controlled by any control plates.



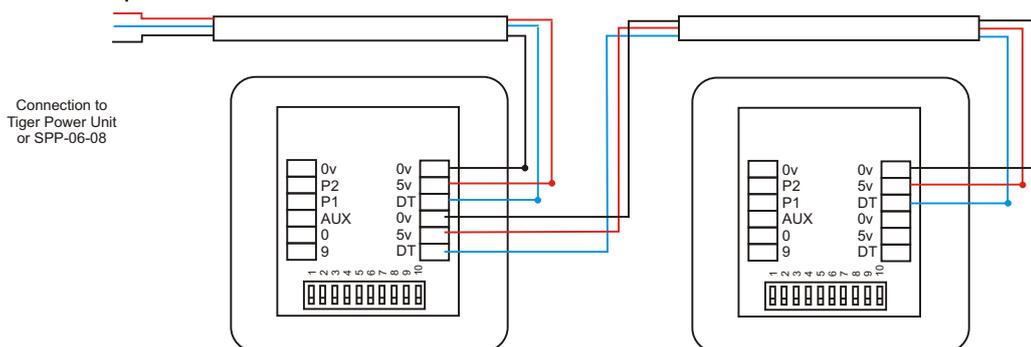
Connecting Control Plates

The Tiger Data line requires a two core screened cable where the screen is used as the third conductor for the 0v connection. A conductor size of 0.22mm² is recommended and cables should be stranded type.

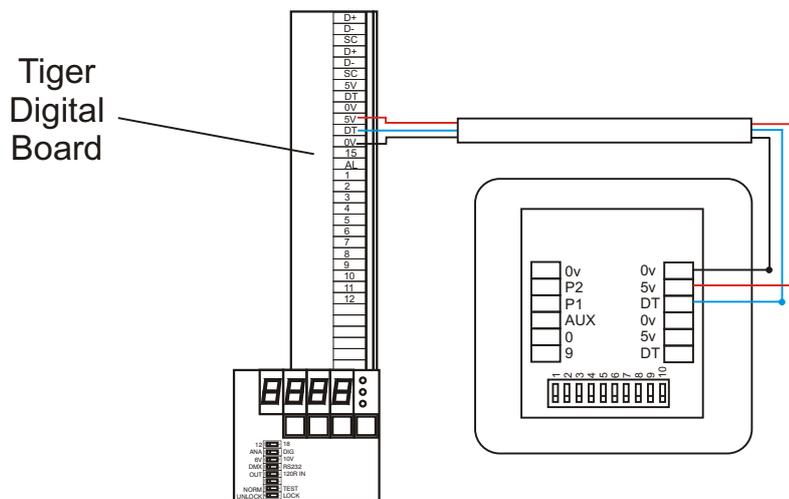
For basic connection the three terminals, 0v, data and +5v connect to terminals marked the same within the Tiger Unit or SPP-08-08 Power Unit.

Connections should be daisy chained.

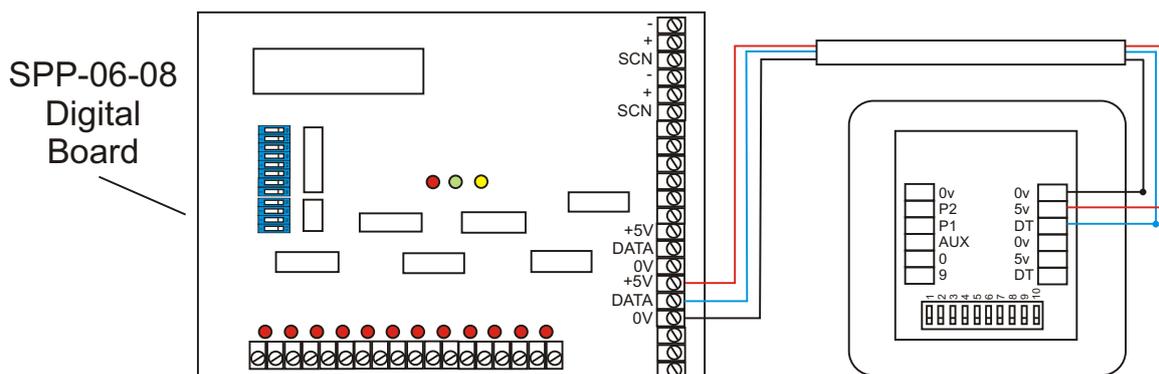
For standard operation the DIP switches should all be set to the OFF Position



Tiger Power Unit Connections



SPP-06-08 Power Unit Connections



(For details on connections required for Partition control, Infrared detectors, Remote Timeclock, PIR inputs and last man out control please refer to separate section later in this manual)

MODE LIGHTING (UK)

Preset Scene Control

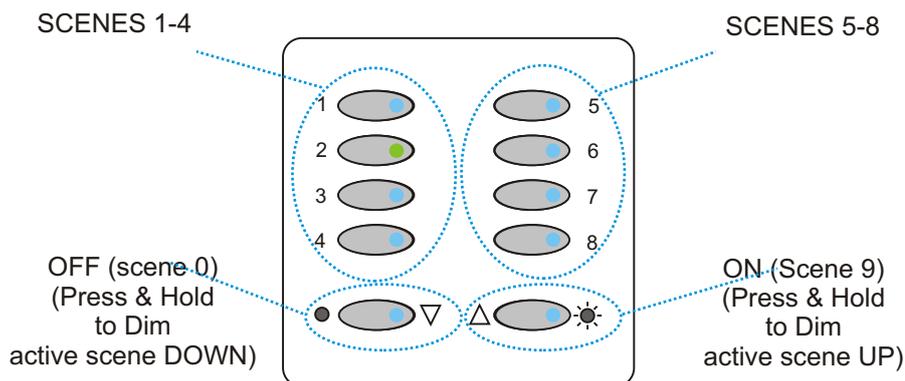
In its simplest form the Tiger System provides control of lighting in a single space by way of a five or ten button control plate.

A Ten Button Plate provides eight scenes plus ON/raise and OFF/lower control of a single area

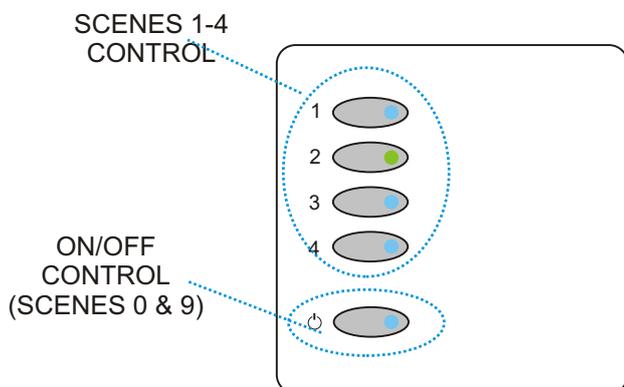
A Five Button Plate provides four scenes plus ON/OFF Control of a single area. There is no raise / lower function available from a five button plate.

Access to ten buttons is required for programming, therefore a ten button plate is normally installed

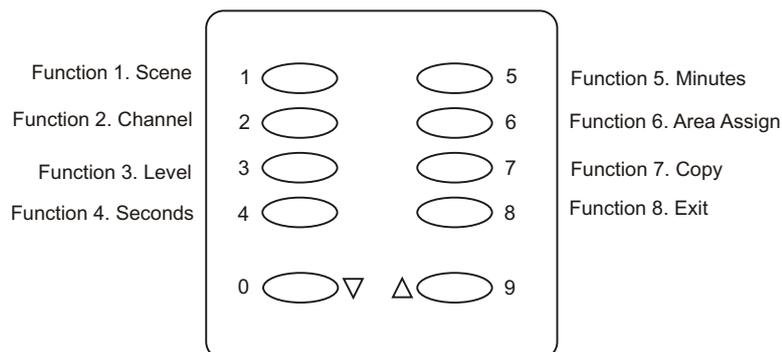
Ten Button Plate



Five Button Plate



Programming Information (Accessed in Programming Mode ONLY)



MODE LIGHTING (UK)

Programming of a Tiger System is carried out using ten button control plates.

The programming method is based on dividing the process into easy steps to simplify setup. The key principles for basic programming involve the control AREAS, lighting SCENES, lighting CIRCUITS and Circuit LEVELS.

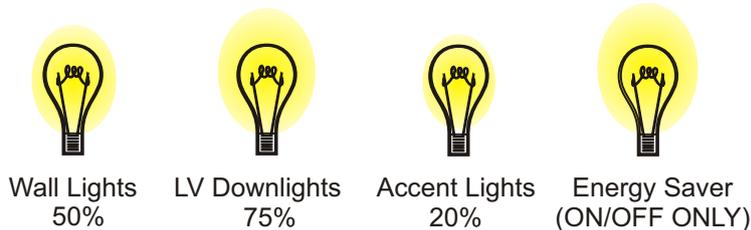
WHAT IS AN AREA

A control AREA is the room, area or group of lighting to be controlled together. For example in a large bar/restaurant the lighting may be controlled in many different areas, each with their own lighting circuits and scenes ie Main Bar, Club Bar, Restaurant, Private Dining. Each area typically has its own control plate which can be located in a convenient location ie behind the bar, kitchen walkway, waiters station.

WHAT IS A SCENE?

The system operates by triggering scenes which are made up of circuits set to different levels to create the desired lighting effect.

EXAMPLE SCENE

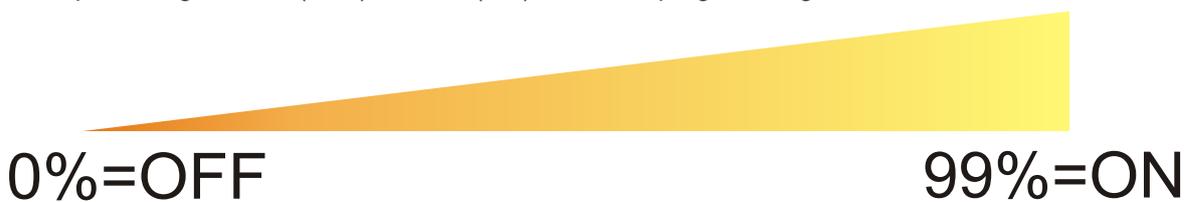


WHAT IS A CIRCUIT

A circuit is an output from the lighting system and refers to lights that are connected together for example the Wall Lights will be one circuit, while the LV Downlights will be another. It is recommended that fittings of different lamp types are connected to different circuits ie wall lights and ceiling lights should be on individual circuits to allow greatest flexibility when setting scenes .

WHAT IS A LEVEL?

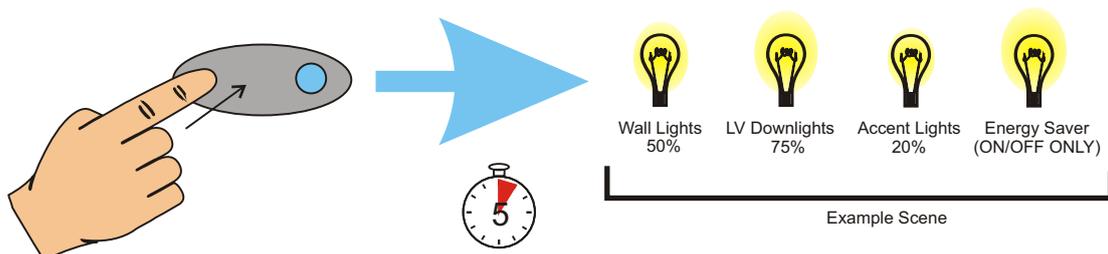
The Level Function sets the brightness of a particular circuit and is set by entering a percentage from 0 (OFF) to- 99% (ON) within the programming



WHAT IS A FADE TIME

The fade time is the time it takes the lights to fade to the programmed levels when a scene is selected. The fade time is set as a two digit number and is individually programmable for every scene.

By Default this is set as five seconds for every scene.

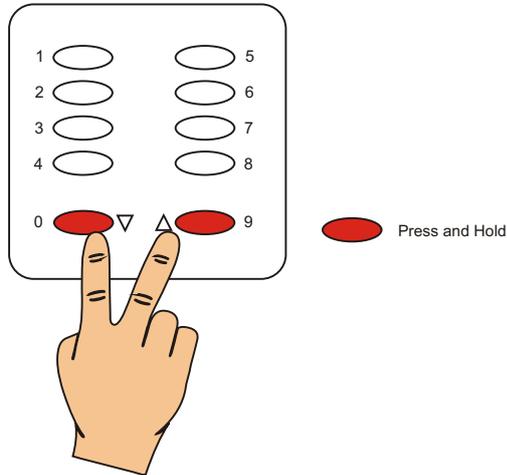


MODE

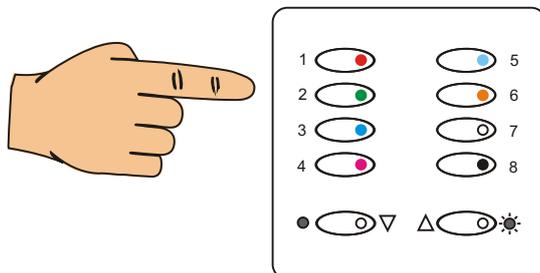
LIGHTING (UK)

How to change Button LED Colours

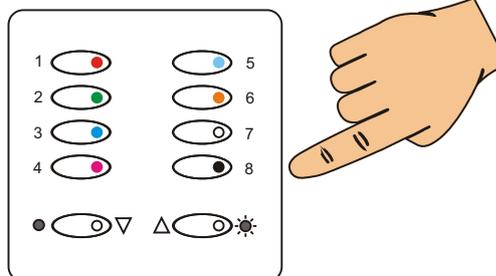
The Tiger Control Plates are fitted with RGB LEDs behind each button. The colour of the active scene and the background colour can be changed as follows:-



1. In normal operation ie NOT programming mode. Press and Hold down the arrow keys for five seconds. The plate buttons will illuminate to show the different colours available.



2. Press the button colour that you want to indicate ACTIVE status ie scene selected colour. The buttons will dim ready for background colour selection.



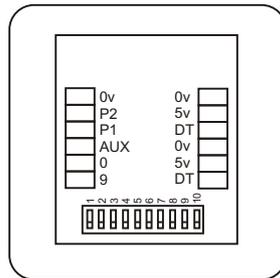
3. Press the button colour that you want to indicate INACTIVE status ie the background colour.

The plate will automatically return to normal operation using the colours selected.

MODE

LIGHTING (UK)

DIP Switch Settings & Applications



Tiger Plate (Rear View)

The Terminals on the right hand side of the plate are used to connect the control plate to Tiger Units and other control plates as required. The Terminals on the left hand side of the plate are used for scene override and partition functions as follows:-

- 0v - Common 0v connection
- P2 - Partition Input 2
- P1 - Partition Input 1
- AUX - Function defined by DIP Switches 4&5
- 0 - Scene 0 (OFF) Override
- 9 - Scene 9 (ON) Override

Scene overrides and partition inputs are carried out by connecting to 0v.

The DIP Switches on the rear of a Tiger Plate can be used to set special functions to expand the control capabilities of the Tiger System.

For projects not using Global control or remote input functions it is important to make sure that all DIP Switches are set to OFF. Failure to do this may result in unexpected operations during programming

TIGER PLATE DIP SWITCH FUNCTIONS

- DIP Switch 1 - Set Left Hand Side Buttons to Global Control (Operates ALL Areas)
- DIP Switch 2 - Set Right Hand Side Buttons to Global Control (Operates ALL Areas)
- DIP Switch 3 - Plate reverts to previous scene after Remote Override
- DIP Switch 4 & 5 - Set function of AUX Terminal as below

4	5	0v Input
OFF	OFF	- Scene 1 Recall
ON	OFF	- Disable Control Plate
OFF	ON	- 3rd Partition Input
ON	ON	- PIR Mode - Triggers ON when activated. Triggers OFF when deactivated (with time delay)

- DIP Switch 6 - Extend Delay Time for PIR Function when active to 15 minutes
- DIP Switch 7 - Disable Programming Facility
- DIP Switch 8 - N/A
- DIP Switch 9 - N/A
- DIP Switch 10 - N/A

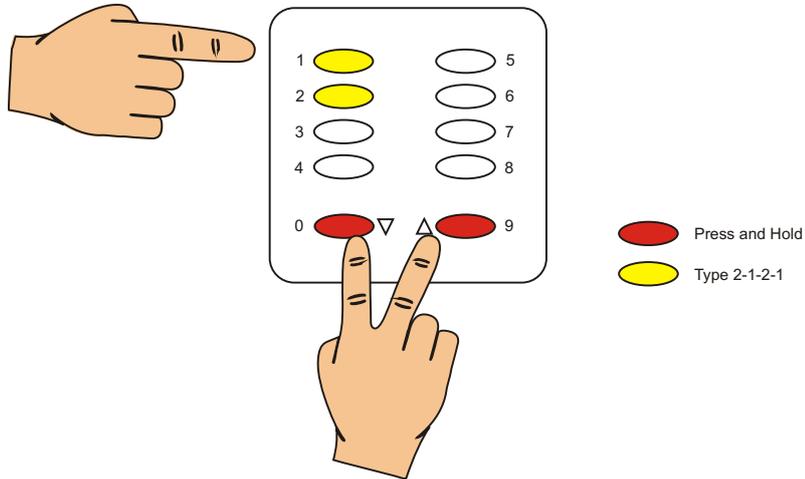
If Master Control is activated using DIP 1 or 2, DIP 7
Must be enabled to prevent programming
being carried out from this plate.

MODE LIGHTING (UK)

Programming an Area

The Programming is divided into simple steps or functions which are accessed through the keypad.

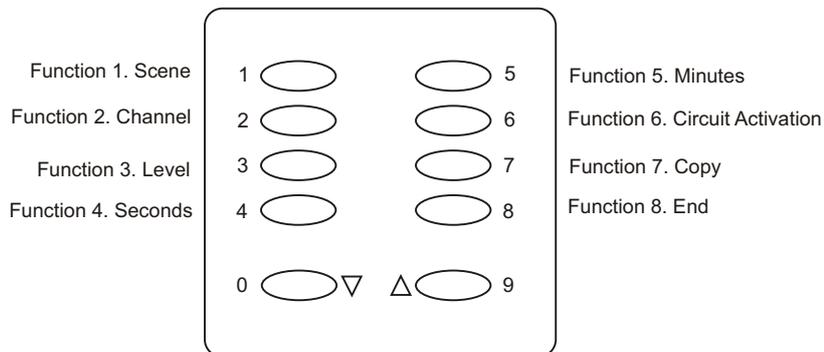
In order to enter programming you must hold down the bottom two buttons (the arrow keys) and type 2-1-2-1. The plate will bleep and the arrow keys will illuminate to indicate you have entered programming mode.



NAVIGATION:

Once in programming to change between functions simply press and hold the arrow keys and press the button relating to the function you wish to use. This allows you to develop your own preferred method of programming by allowing simple switching between functions.

When you have entered programming the system will automatically default to function one, scene select mode)



When a function is selected the relevant button will illuminate to indicate that the function is active. For example when Function 1 Scene Mode is selected (press and hold arrow keys and press button one) then button 1 will illuminate to indicate that Scene Function is active.

Within a function the buttons will flash to indicate the status of that function. For example, in Scene Function a button will flash to indicate which scene is active. In circuit function two buttons will flash in sequence to indicate the circuit selected

Programming functions explained

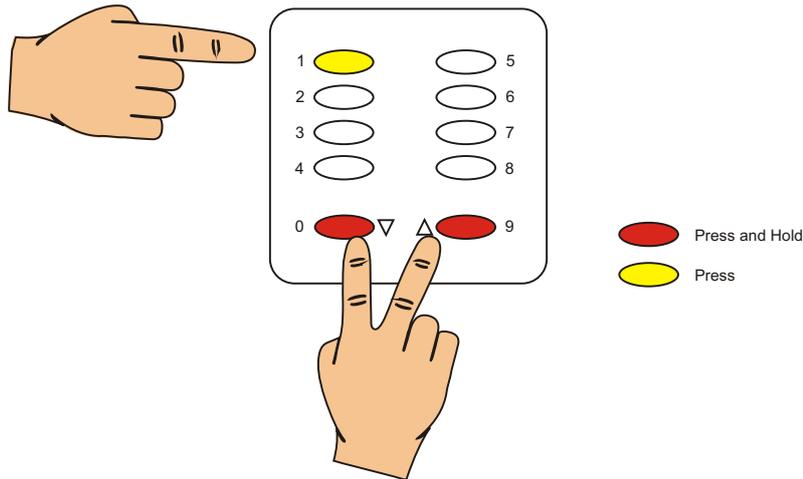
As described earlier, a SCENE is created by CIRCUITS being set to particular LEVELS.

This simple statement is then the basis for the programming routine.

Enter programming - Select Scene - Select Circuit - Select Level.

To familiarise yourself with the functions and information that the plate will display the following is an overview of each function.

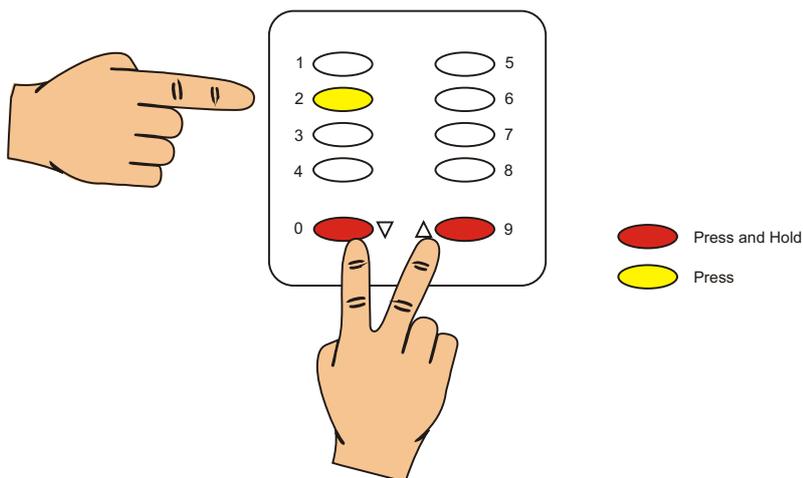
Function 1 - Scene Selection. (Hold down arrow keys and press "1" to Enter).
This function allows the programmer to select a scene to program.



Button 1 will illuminate to indicate that the Function is active.

While in the mode, pressing a button 0-9 will select that scene and the lighting will set to the levels programmed in that scene instantly. The relevant button on the control plate will flash to indicate the scene selected.

Function 2 - Circuit Selection. (Hold down arrow keys and press "2" to Enter).
This function allows the programmer to select a circuit within the scene.

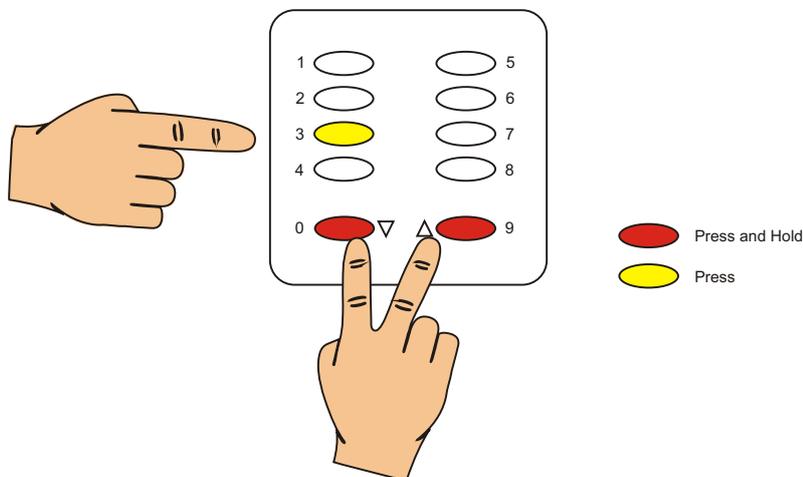


Button 2 will illuminate to indicate that the Function is active.

While in the mode, typing a two digit number from 01 to 99 will select the relevant circuit. The relevant buttons on the control plate will flash in sequence to indicate the circuit selected. To identify a circuit type 0-0 after entering the circuit number will cause it to pulse. The fittings on this circuit will switch between on and dim every half a second to help locate them within the venue. Re-type the circuit number to cancel the pulse.

Programming functions continued

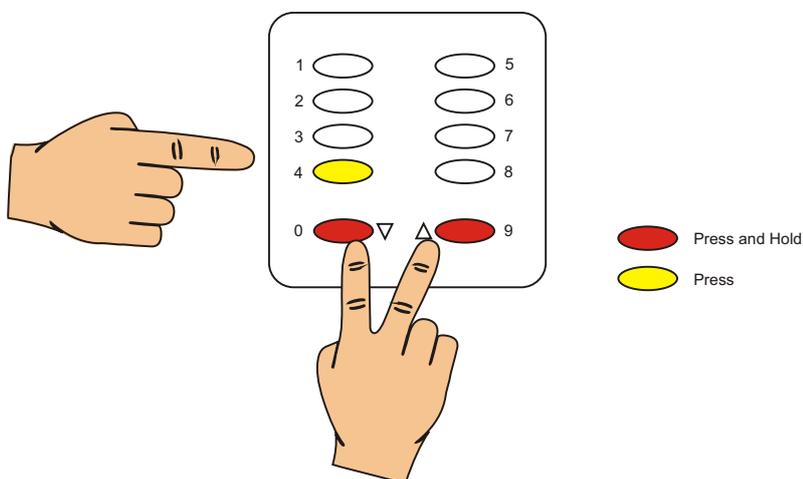
Function 3 - Level Selection. (Hold down arrow keys and press "3" to Enter).
This allows the programmer to set a percentage level to the circuit (selected using function 2.)



Button 3 will illuminate to indicate that the Function is active.

While in the mode, typing a two digit number from 00 to 99 will set the selected circuit to this level as a percentage brightness ie 00 is OFF 99 is ON. Alternatively, holding down either 9 (ON) or 0 (OFF) buttons with raise or lower the lighting level of the selected circuit. The relevant buttons on the control plate will flash to indicate the percentage level selected.

Function 4 - Fade Time (seconds) Selection. (Hold down arrow keys and press "4" to Enter).
This allows the programmer to enter a fade time for the scene which is being programmed.



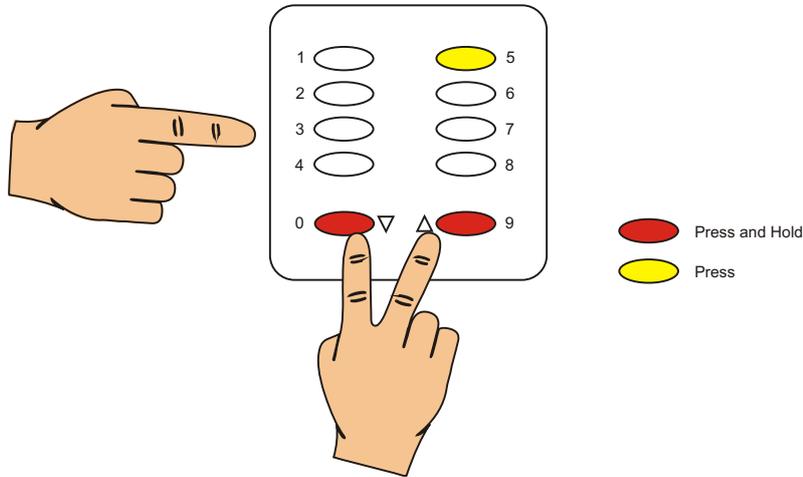
Button 4 will illuminate to indicate that the Function is active.

While in the mode, typing a two digit number from 01 to 99 will select a fade time in seconds for the selected scene. The relevant buttons on the control plate will flash in sequence to indicate the fade time selected in seconds.

MODE LIGHTING (UK)

Programming functions continued

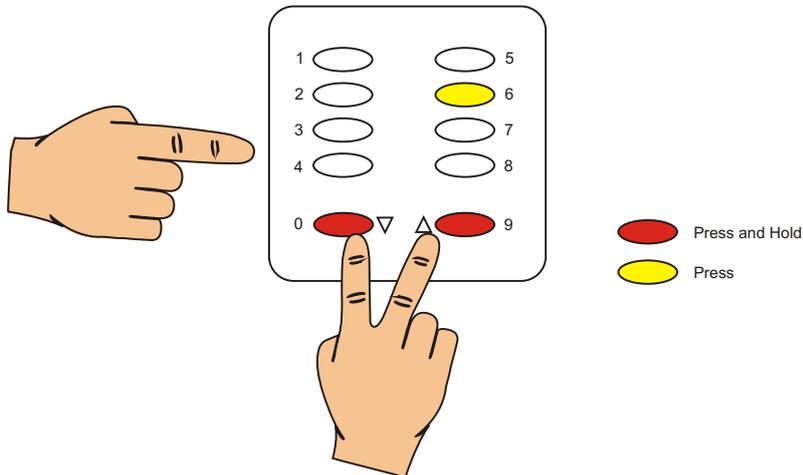
Function 5 - Fade Time (minutes) Selection. (Hold down arrow keys and press "5" to Enter).



Button 5 will illuminate to indicate that the Function is active. This allows the programmer to enter a fade time for the scene which is being programmed.

While in the mode, typing a two digit number from 00 to 99 will select a fade time in minutes for the selected scene. The relevant buttons on the control plate will flash to indicate the fade time selected in minutes.

Function 6 -Circuit Activation. (Hold down arrow keys and press "6" to Enter). Using this function allows control of circuits to be divided across multiple control plates



Button 6 will illuminate to indicate that the Function is active.

While in the mode, pressing "0" will remove the selected circuit from the control zone. Button "0" will flash to indicate the circuit has been removed.

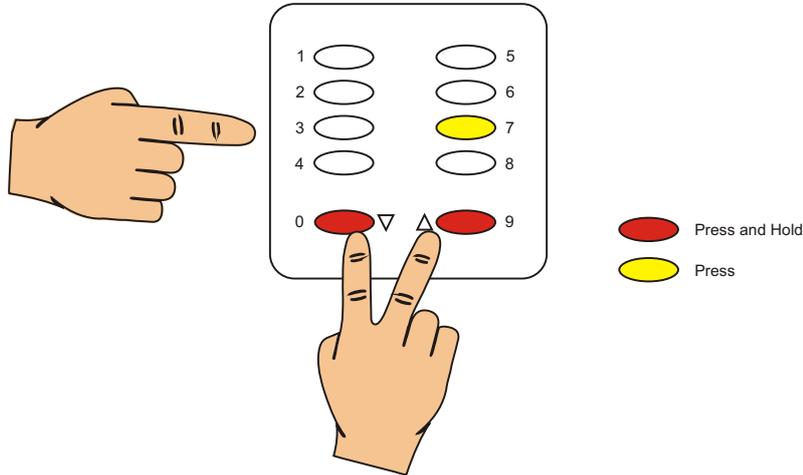
To add the circuit to the control zone press "1". Button "1" will flash to indicate the circuit has been added.

Pressing "4" will deactivate all circuits on the same rack to the control plate operation. Button "0" will flash indicating that the selected circuit has been removed.

Pressing "5" will activate circuits on the same rack to the control plate operation. Button "1" will flash indicating that the selected circuit has been removed.

Programming functions continued

Function 7 - Copy Selection. (Hold down arrow keys and press "7" to Enter).
This function will copy the circuit levels and scene fade times from one scene to another.
This can help speed up programming when only a small number of changes need to be made between scene.s



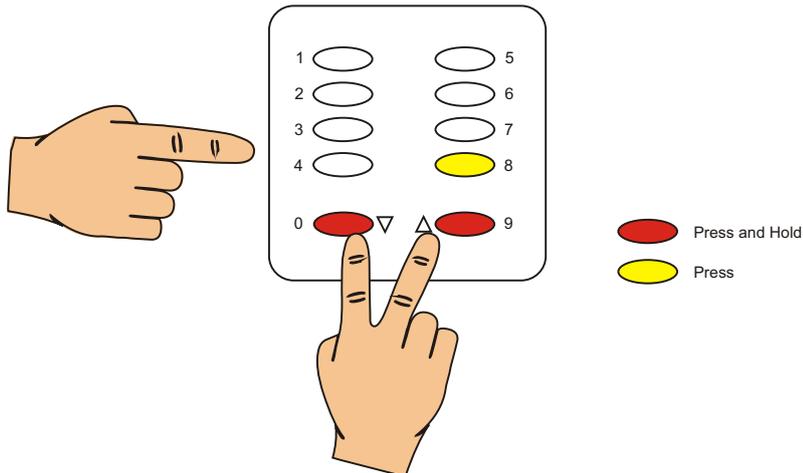
Button 7 will illuminate to indicate that the Function is active.

While in the mode a single button will flash to indicate the current active scene. This is the scene that will be copied.

Press the button that you would like to copy those settings to.

The system will copy the settings across to the new scene and automatically revert to Scene Mode with the new scene active.

Function 8 -Exit Programming. (Hold down arrow keys and press "8").

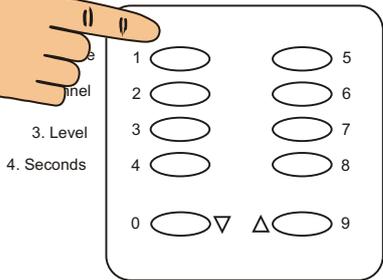
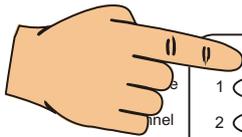
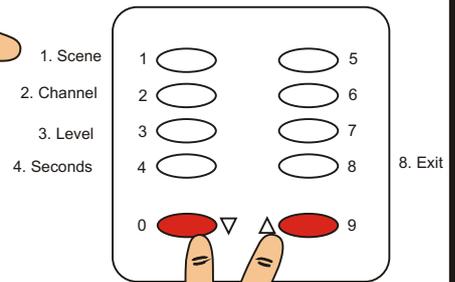
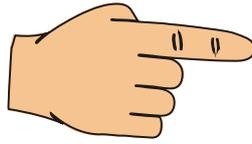


The System will exit programming mode and buttons will illuminate to indicate the current scene.

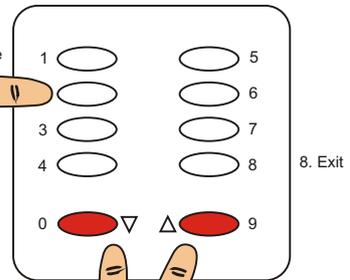
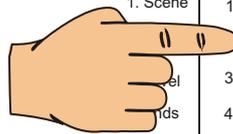
MODE LIGHTING (UK)

Programming an area / control plate

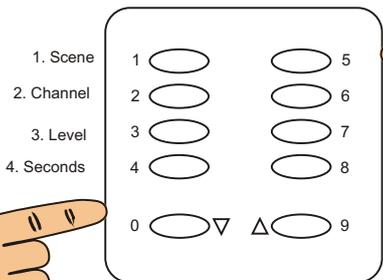
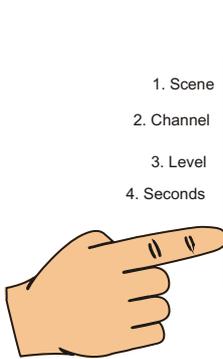
1. To enter programming, hold down the arrow keys and type 2-1-2-1. The plate will emit two short beeps. Release the keys. You are now in Programming Mode. The Tiger system defaults to Scene Mode when first entering programming Mode. LED 1 illuminates to indicate this.



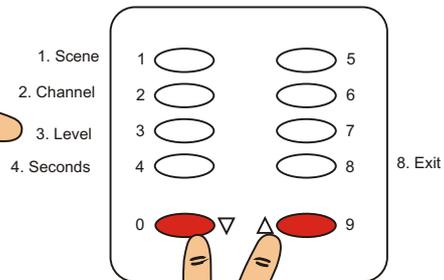
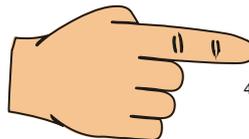
2. Press the button corresponding to the Scene you wish to program. The plate will emit a single beep and the LED for that button will begin to flash to indicate the selected scene.



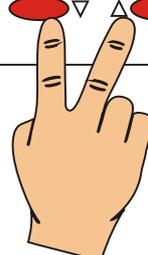
3. Press and hold down the arrow keys. Press button "2". The plate will emit a single beep. Release the keys. You are now in Channel Mode. LED 2 will illuminate to indicate this.



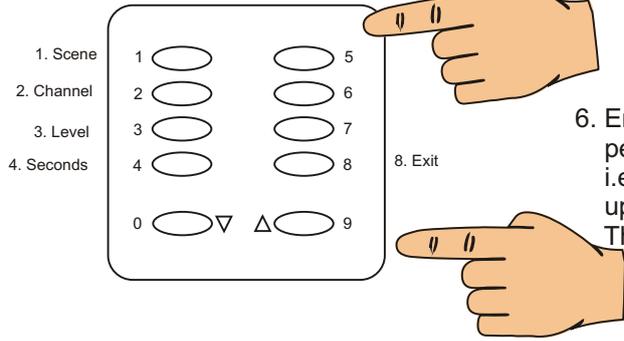
4. Enter the two digit number corresponding to the channel you wish to edit i.e. 07 or 12 or 16. The plate will beep and the LEDs will flash to indicate the selected channel.



5. Press and hold down the arrow keys. Press button "3". The plate will emit a single beep. Release the keys. You are now in Level Mode. LED 3 will illuminate to indicate this.



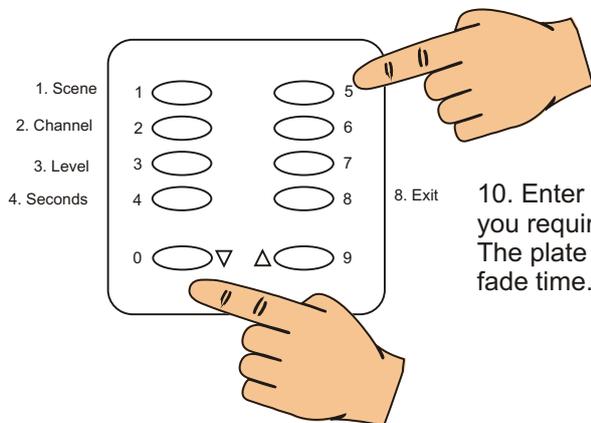
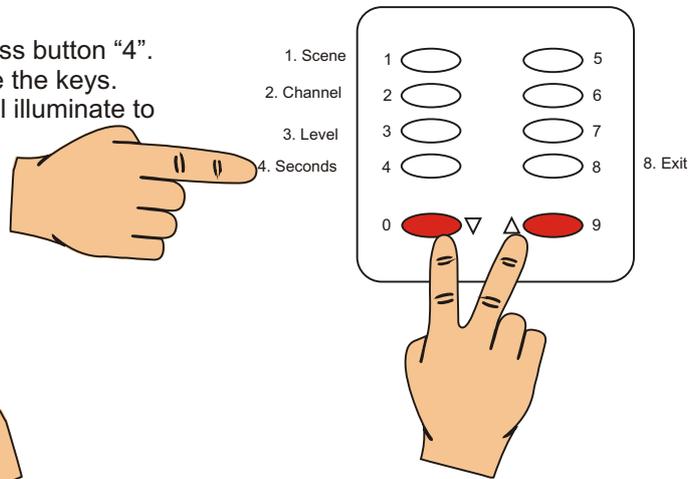
MODE LIGHTING (UK)



6. Enter the two digit number corresponding to the percentage level you require for the selected channel i.e. 99 or 50 or 37% Alternatively, hold down either the up or down buttons to raise and lower the lighting level. The plate will beep and the LEDs will flash to indicate the selected level.

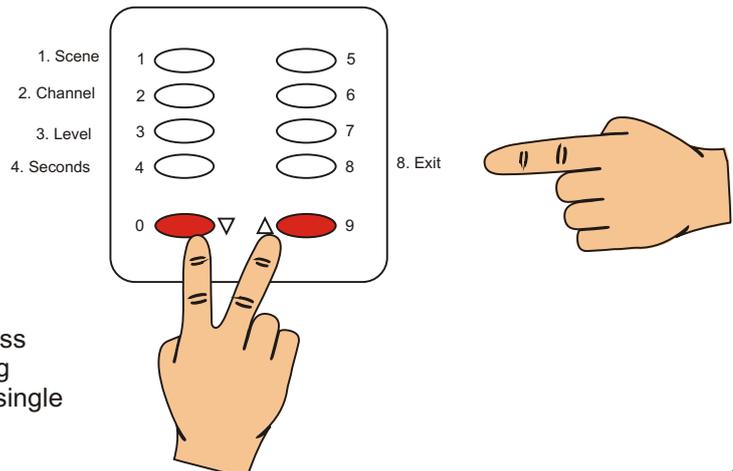
- Repeat steps 3 to 6 for all channels you wish to alter for this scene.
- If you wish to set a fade time go to Step 9. Otherwise go to Step 11.

9. Press and hold down the arrow keys. Press button "4". The plate will emit a single beep. Release the keys. You are now in Seconds Mode. LED 4 will illuminate to indicate this.



10. Enter the two digit number corresponding to the fade time you require for the selected scenel i.e. 05 or 10. The plate will beep and the LEDs will flash to indicate the selected fade time.

- Return to step 2 and repeat above procedure for other scenes if necessary.



12. Press and hold down the arrow keys. Press button "8". You have now exited Programming mode and Normal operation has returned. A single LED will light to indicate the current scene.

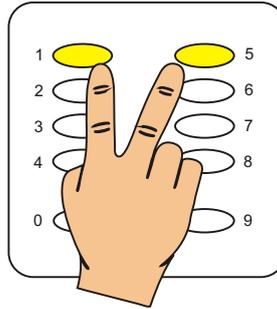
Programming Short Cuts / Quick-Keys

Within programming there are shortcuts for selecting the four main functions, scene, circuit, levels and fade. These enable quicker programming and one handed programming which can be useful if the control plate has been mounted in an awkward position.

We recommend short cut operations are only used by experienced programmers to avoid confusion should buttons not be pressed together.

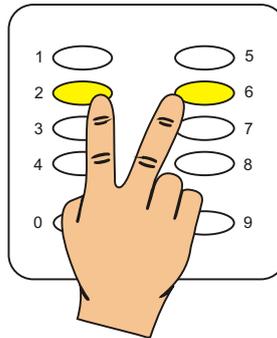
The shortcuts can only be used once you have entered programming mode and are as follows:-

Function 1 - Scene Selection.



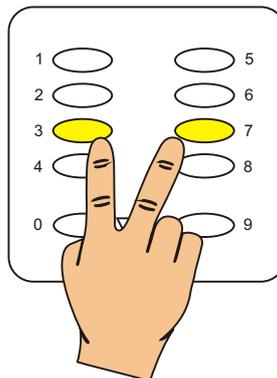
Press 1 and 5 Together

Function 2 - Circuit Selection.



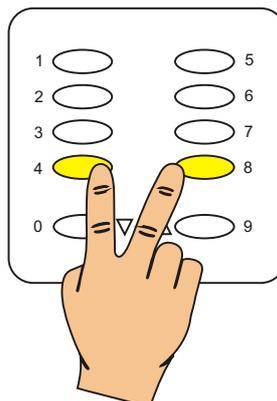
Press 2 and 6 Together

Function 3 - Level Selection.



Press 3 and 7 Together

Function 4 - Fade (Sec) Selection.



Press 4 and 8 Together

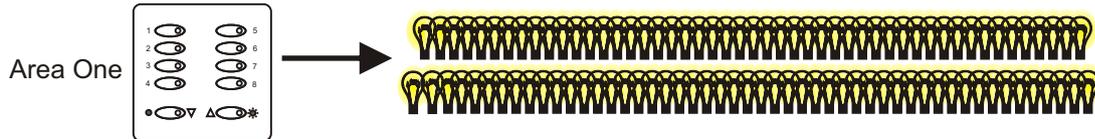
MODE LIGHTING (UK)

Creating a Multi Area Control System

A Tiger System can be divided in to ten separate areas of control with each area typically having its own control plate. Applications might include different floors of a building, bars & restaurants with multiple areas and partitioned function rooms.

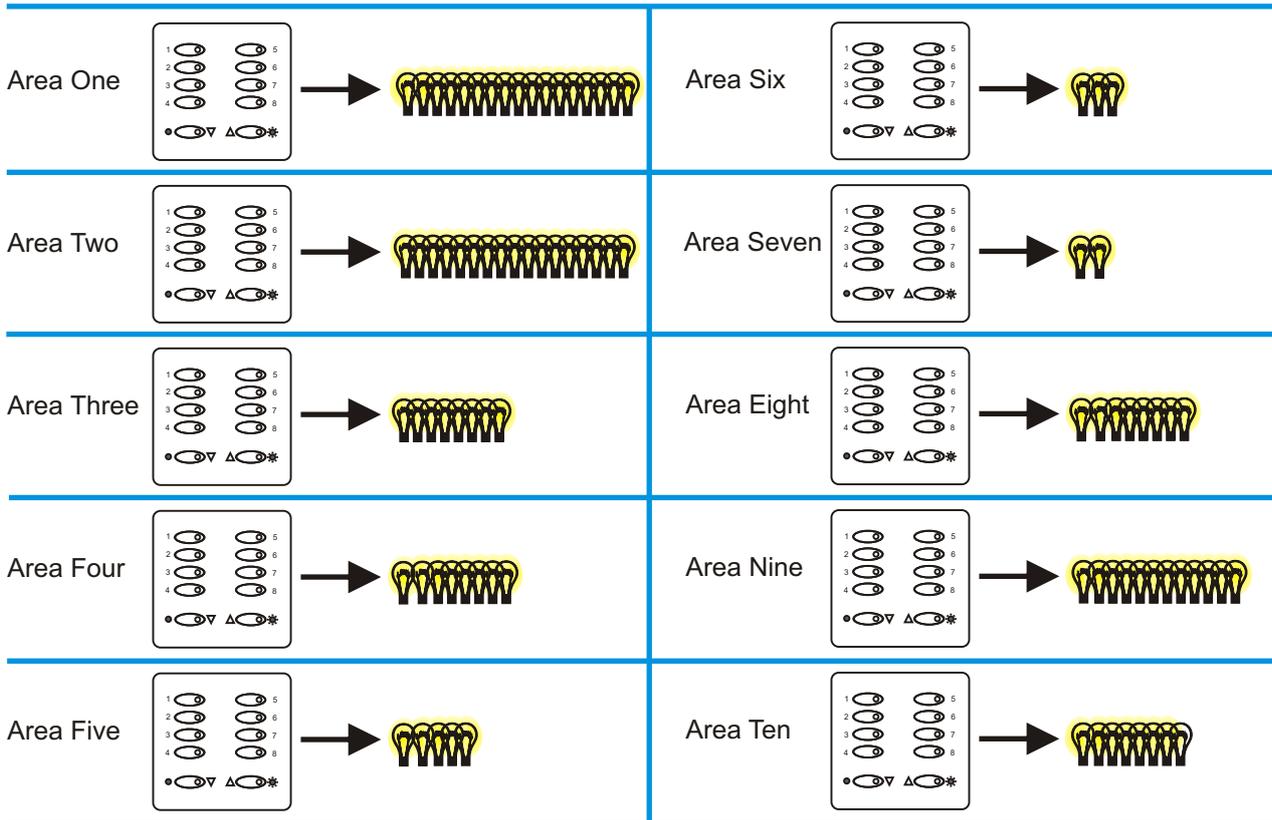
By default circuits on a system are set to operate from a control plate set to area 1. All other areas within the system are blank with no circuits assigned and no levels set.

Default operation Area one controls all circuits



Programmable Options Example

Control can be divided across up to ten separate areas (multiple areas are used for partitioned rooms). Any circuits can be controlled by any control plates.



MODE LIGHTING (UK)

How to change the control Area of a plate

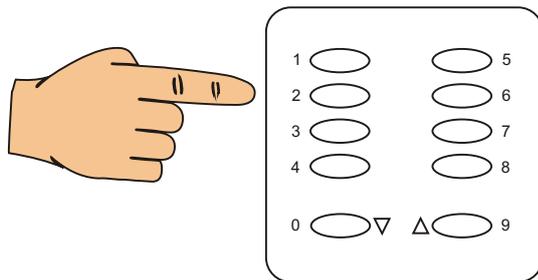
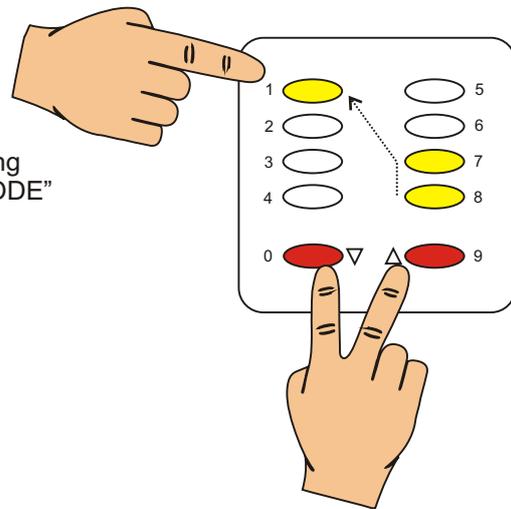
Each control plate can be set to control an area. Up to ten areas can be defined
To divide the control of lighting across different plates you must first set the plates to different areas.

To set a plate to control & program a different area follow the instructions below.

A Ten Button plate can be set to control two different areas using the left hand buttons and right hand buttons separately. Therefore it is necessary to set the area or control zone for both the left and right hand sides of a control plate (see later for details on multi-area control from a single plate).

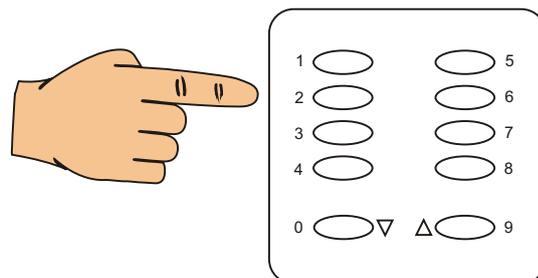
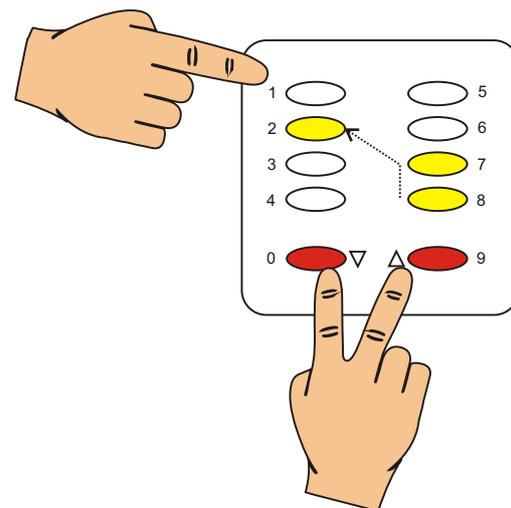
IF THE TEN BUTTON PLATE IS NORMALLY USED TO CONTROL A DIFFERENT AREA
REMEMBER TO SET THE PLATE BACK TO THE ORIGINAL AREA ONCE YOU HAVE
COMPLETED PROGRAMMING.

1. Hold down the bottom two buttons. While holding down type **8-7-1-1**. The Plate will enter "AREA MODE" for the LEFT HAND SIDE of the control plate



2. Press the button corresponding to the AREA you wish to control from the LEFT HAND SIDE of the control plate. The plate will set the LHS to the new area and exit AREA MODE Automatically

3. Hold down the bottom two buttons. While holding down type **8-7-2-2**. The Plate will enter "AREA MODE" for the RIGHT HAND SIDE of the control plate



4. Press the button corresponding to the AREA you wish to control from the RIGHT HAND SIDE of the control plate. The plate will set the RHS to the new area and exit AREA MODE Automatically

MODE LIGHTING (UK)

Activating / Deactivating circuits

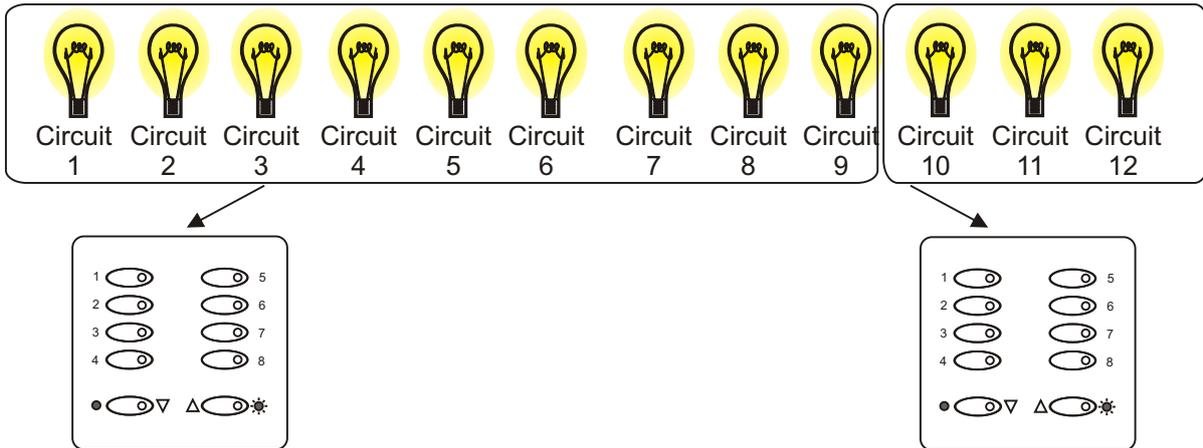
In order to divide the control across a number of separate areas it is necessary to remove the circuits from area one control. This is known as deactivating circuits.

To add circuits to a new area / control plate the opposite action is required. This is known as activating circuits.

This activating / deactivating is carried out in programming mode by selecting a circuit (using function 2) and the activating and deactivating using Function 6 (Circuit Activation).

Application Example

Setup circuits 1-9 controlled by Area One / Circuits 10-12 controlled by Area Two



WHAT NEEDS TO BE DONE?

1. Deactivate circuits 10-12 from Area One (So that it no longer controls them).
2. Activate circuits 10-12 in Area Two (So that it now controls them)
4. Program Scene Levels for both Areas

HOW TO DO IT

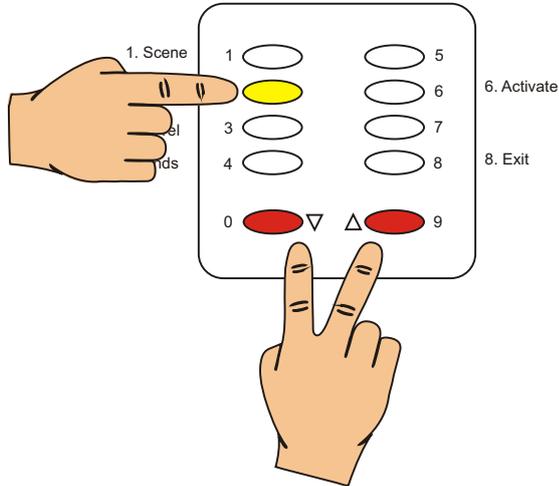
1. Enter programming Mode through Area One Plate (Hold Arrow Keys & type 2-1-2-1)
- 2 Goto Circuit Function (Hold Arrow Keys & Press Button 2)
3. Select Circuit 10 (Type 1-0)
4. Goto Activation Function (Hold Arrow Keys & Press Button 6)
5. DEACTIVATE circuit from Area One (Press Button 0)
6. Repeat 2-5 for Circuits 11 & 12
7. Exit programming Mode (Hold Arrow Keys & Press Button 0)
8. Select ON Scene on Area Two Plate (Press Button 9)
9. Enter programming Mode through Area Two Plate (Hold Arrow Keys & Type 2-1-2-1)
- 10 Goto Circuit Function (Hold Arrow Keys & Press Button 2)
11. Select Circuit 10 (Type 1-0)
12. Goto Activation Function (Hold Arrow Keys & Press Button 6)
13. ACTIVATE circuit to Area Two (Press Button 1)
(by default level is set to 00 for all scenes in all areas other than area 1 so levels need to be set)
14. Goto Levels Function (Hold Arrow Keys & Press Button 3)
15. Set level to 99 (Type 9-9)
(by default no fade times are set for scenes other than Area one scenes so these need to be set)
16. Repeat 2-5 for Circuits 11 & 12
17. Go to Seconds Function (Hold Arrow Keys & Press Button 4)
18. Set Fade time to 5 Seconds (Type 0-5)
19. Goto Scene Function (Hold Arrow Keys & Press Button 1)
- 20 Select OFF Scene (Press 0)
21. Goto Seconds Function (Hold Arrow Keys & Press Button 4)
22. Set Fade time to 5 Seconds (Type 0-5)
19. Exit programming Mode (Hold Arrow Keys & Press Button 0)

You will now have ON and OFF scenes operating in Area Two.
Follow normal programming instructions to set levels for other scenes in Area Two.

MODE LIGHTING (UK)

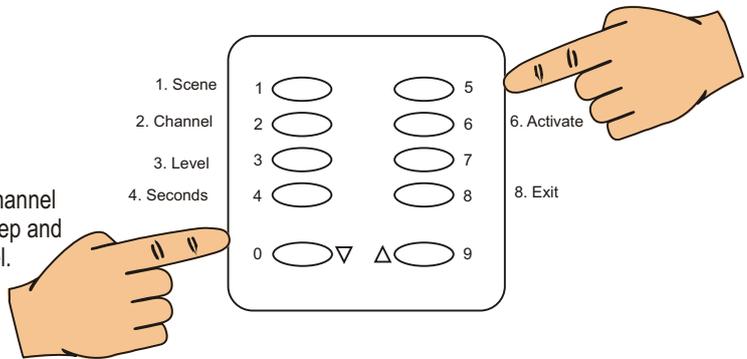
Application Example - Step by Step Deactivate circuits from Area One

- Using the Plate set to Area One, enter programming Mode (hold down the arrow keys and type 2-1-2-1. The plate will emit two short beeps. Release the keys. You are now in Programming Mode. LED1 illuminates to indicate this.

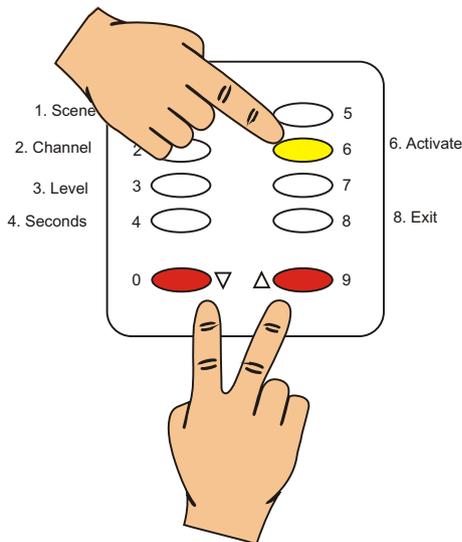


- Press and hold down the arrow keys. Press button "2". The plate will emit a single beep. Release the keys. You are now in Channel Mode. LED 2 will illuminate to indicate this.

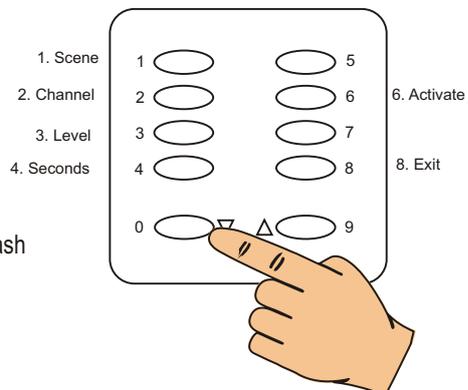
- Enter the two digit number corresponding to the channel you wish to edit i.e. 10, 11 or 12. The plate will beep and the LEDs will flash to indicate the selected channel.



- Press and hold down the arrow keys. Press button "6". The plate will emit a single beep. Release the keys. You are now in Activation Mode. LED 6 will illuminate to indicate this.



- Press "0" to Deactivate the circuit from this area. "0" will flash to indicate the circuit is deactivated.



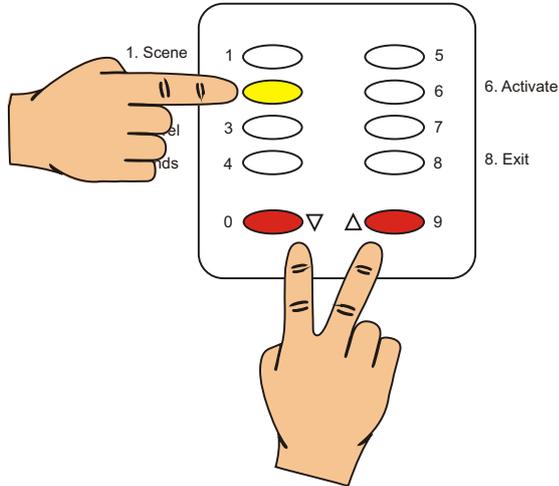
- Repeat steps 2-4 for circuits 11 and 12

- Program levels for Area One - Refer to programming on Pages 12-13 for information

MODE LIGHTING (UK)

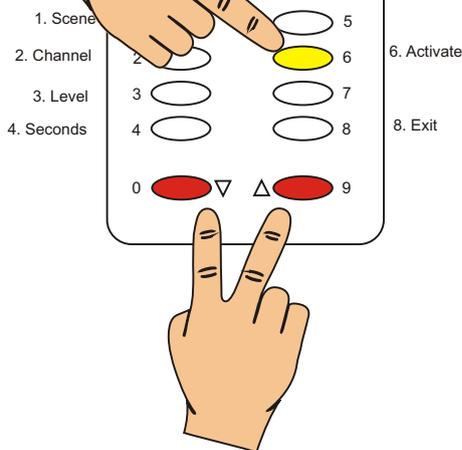
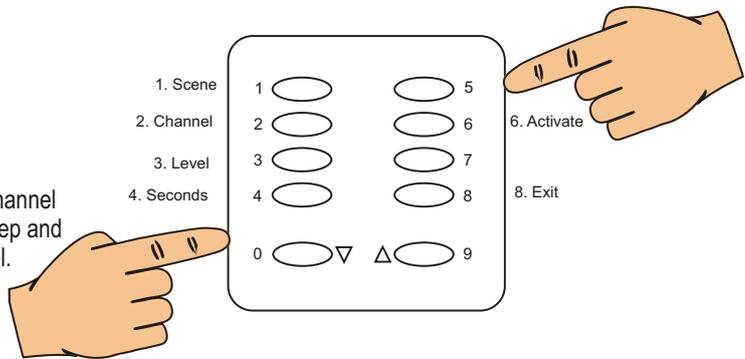
Application Example Activate circuits for Area Two

- Using the Plate set to Area Two, enter programming Mode (hold down the arrow keys and type 2-1-2-1. The plate will emit two short beeps. Release the keys. You are now in Programming Mode. LED1 illuminates to indicate this.



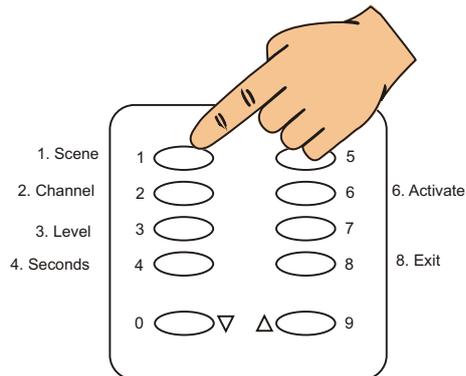
- Press and hold down the arrow keys. Press button "2". The plate will emit a single beep. Release the keys. You are now in Channel Mode. LED 2 will illuminate to indicate this.

- Enter the two digit number corresponding to the channel you wish to edit i.e. 10, 11 or 12. The plate will beep and the LEDs will flash to indicate the selected channel.



- Press and hold down the arrow keys. Press button "6". The plate will emit a single beep. Release the keys. You are now in Activation Mode. LED 6 will illuminate to indicate this.

- Press "1" to activate the circuit from this area. "1" will flash to indicate the circuit is activated.



- Repeat steps 2-4 for circuits 11 and 12

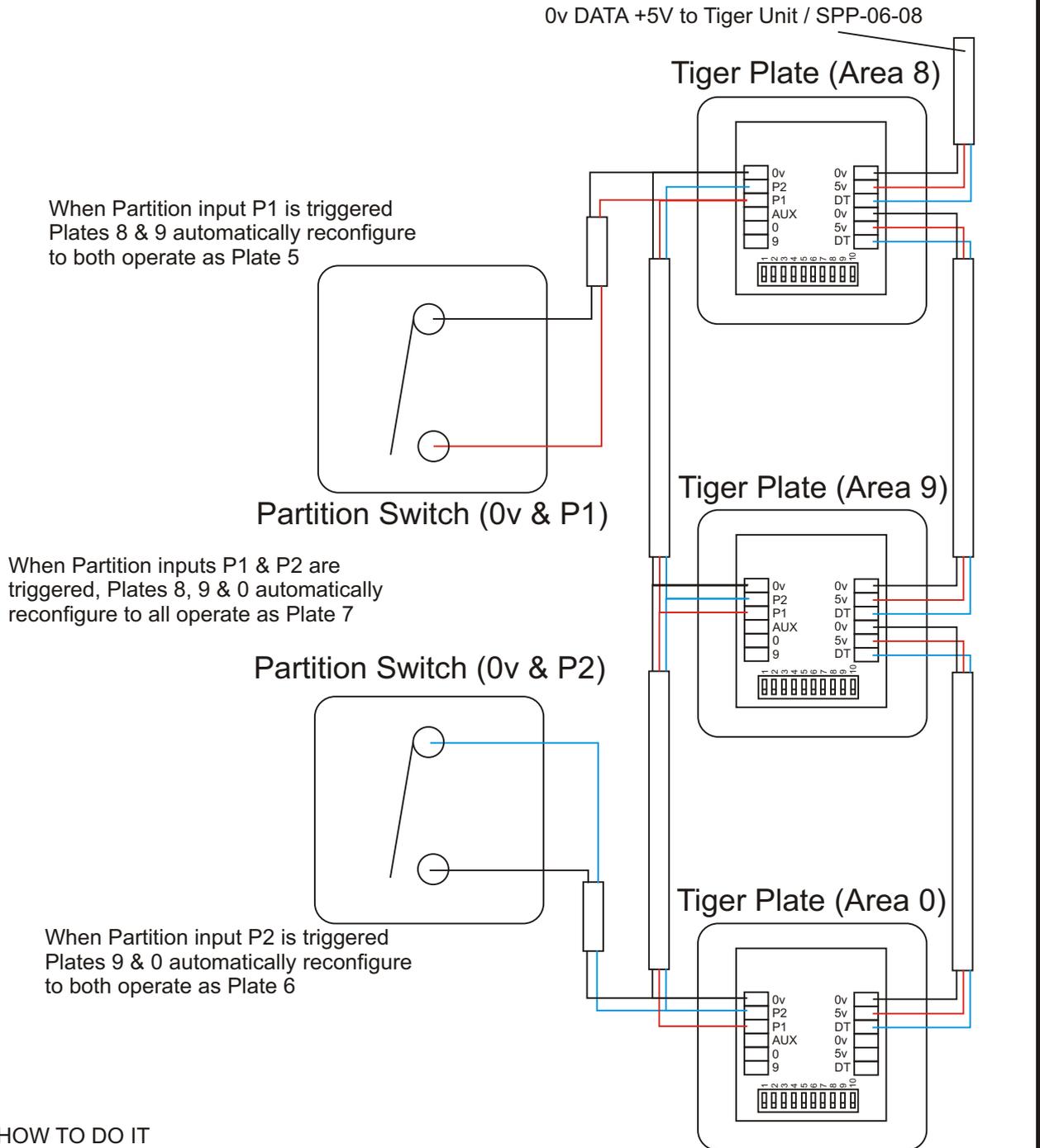
- Program levels for Area Two - Refer to programming on Pages 12-13 for information

MODE LIGHTING (UK)

Partitioned Operation & Setup

To operate Tiger systems in partitioned mode for ballroom and meeting room applications the control plates need to be set to different areas as shown below (see pages 17-20 for details).

Each area will control its own group of lights as defined by the circuit activate / deactivate functions (see page 17-20 for details)



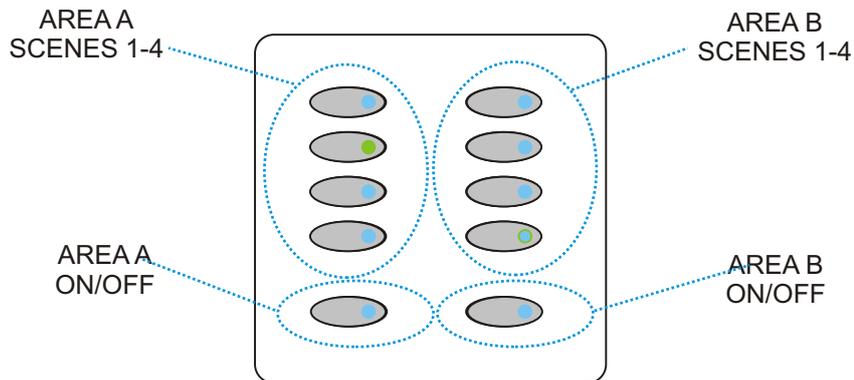
HOW TO DO IT

1. Set control plates to Areas 8, 9 & 0 as above.
2. Set partition switches to closed (contact open)
3. Activate circuits for Areas 8, 9 & 0 (see Page 18 for example) and set scenes (circuit levels & fade times)
4. Set Partition Switch 1 to OPEN
5. Use either plate 8 or 9 Activate circuits to the new area and set scenes (circuit levels & fade times)
6. Set Partition Switch 1 to CLOSED and Partition Switch 2 to OPEN
7. Use either plate 9 or 0 Activate circuits to the new area and set scenes (circuit levels & fade times)
8. Set Partition Switch 1 to OPEN and Partition Switch 2 to OPEN
9. Use either plate 9 or 0 Activate circuits to the new area and set scenes (circuit levels & fade times)

Additional Functions - Split Control

In certain applications it may be useful to control two areas from a single ten button plate. In these instances the plate can be setup to operate as two halves, the left and right hand sides of the plate. Each side will provide control of Scenes 1-4 plus ON/OFF control of its relevant area.

Ten Button Plate

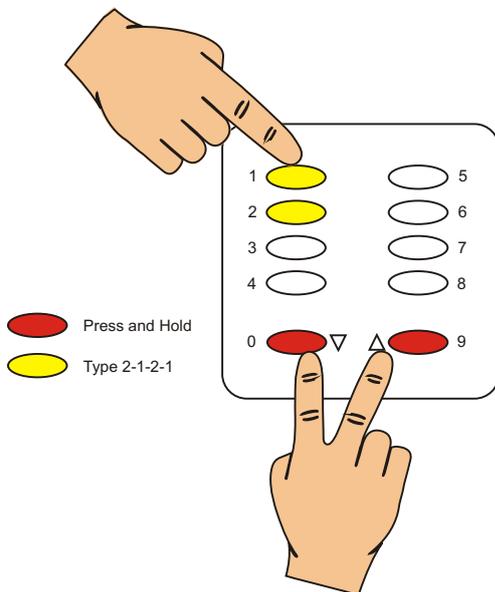


NOTE:

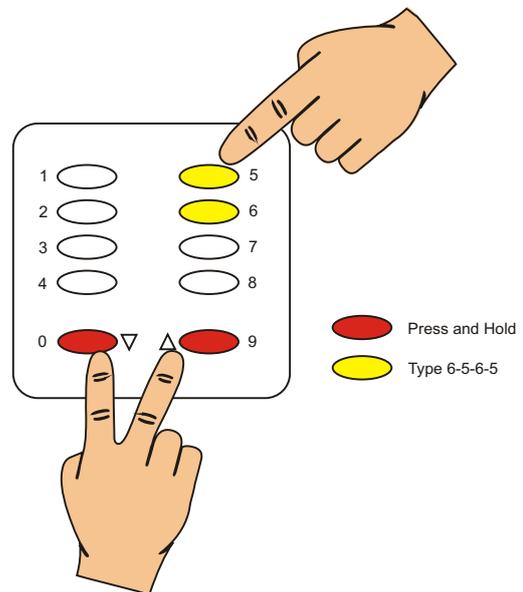
See Page 6 for details of how set the control plate to operate as above.

Different codes are required to program each half of the control plate

To Enter programming for the LHS Area



To Enter programming for the RHS Area



PLEASE NOTE:

Once the programming code is entered programming is as per normal area programming (see Pages 12-13)

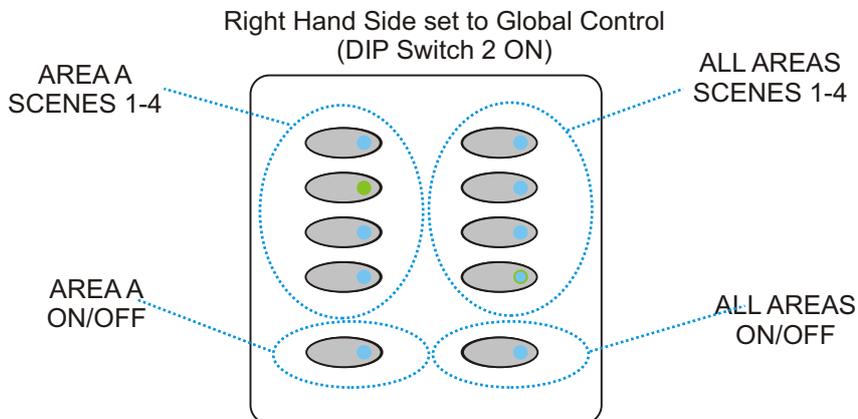
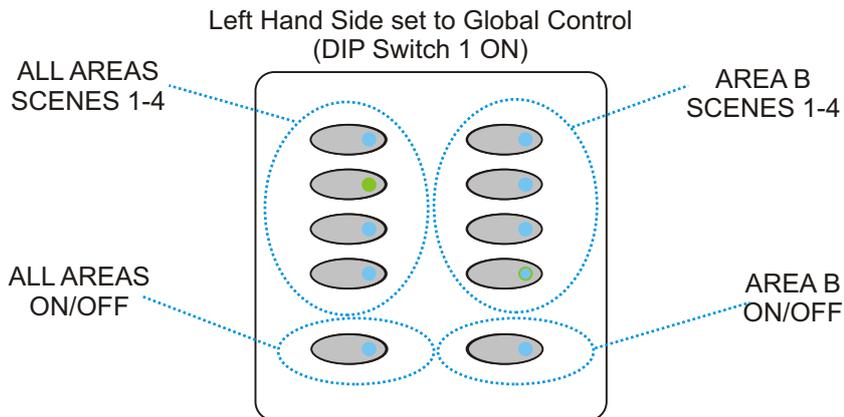
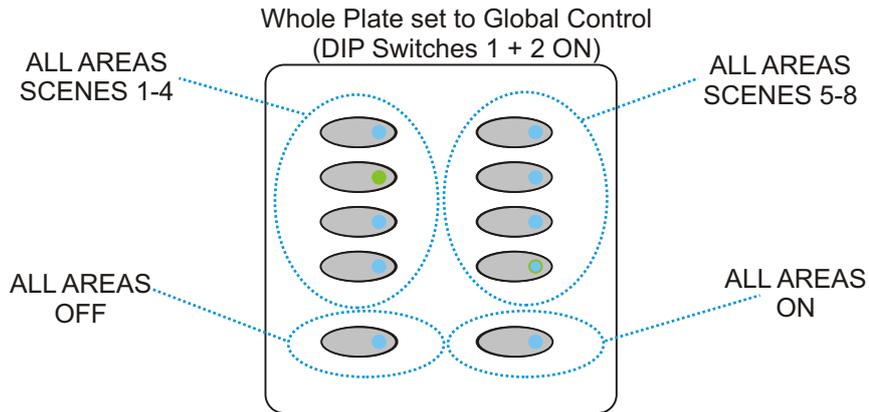
When programming the RHS Area the scenes that are recalled by the RHS buttons are Scenes 1-4 for that area and therefore should be the scenes selected when programming

MODE LIGHTING (UK)

Additional Functions - Global Control

Using the DIP Switches on the rear of the Tiger Control Plate it is possible to set either the Left Hand Side, Right Hand Side, or the whole plate to control all areas of a system. This function is known as Global Control as is useful where multiple areas need to be triggered simultaneously from a single point for example in a Mangers Office for control of a whole building or by an exit point for control of all areas for a scene setting control rather than basic ON / OFF Functionality.

In Global Mode the buttons recall the commands for each area ie button 1 recalls scene 1 in all 10 areas of a Tiger System.

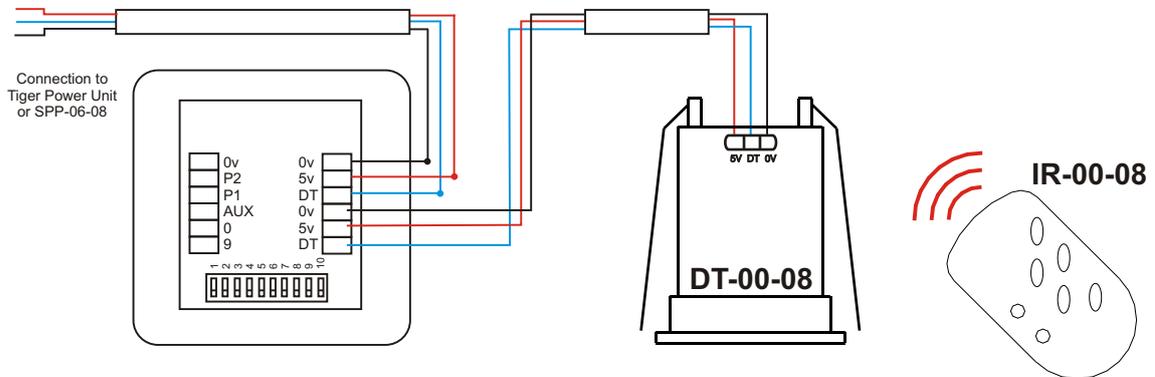


MODE LIGHTING (UK)

Infrared Detector - DT-00-08

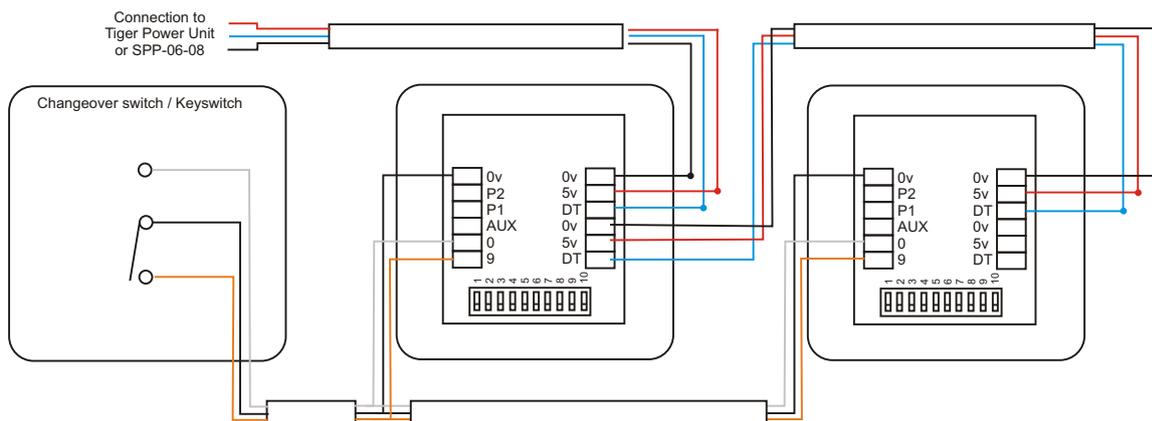
The DT-00-08 Detector works in conjunction with the IR-00-08 Handset. It connects to the system using the 0v DATA and +5V connections. The DT-00-08 has an address switch which should be set to the same address as the plate or area that it is controlling.

Connections for the data to the DT-00-08 can be daisy chain or star wired as preferred



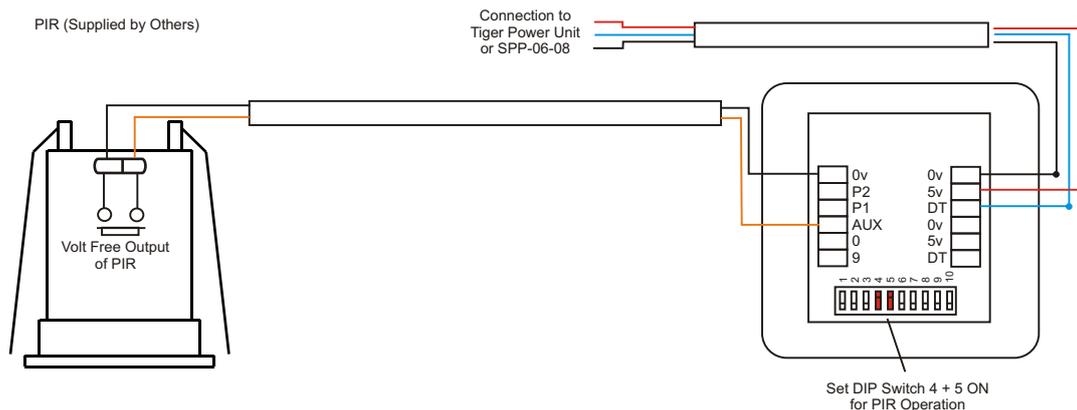
Last Man Out Switch - Changeover

A Keyswitch (KS-00-01) or two way switch can be connected into the Tiger Control Plates for ON / OFF Override Control for Entry / Exit Operation. Connections need to be made to each control plate which is to be overridden by the last man out switch.



PIR Control

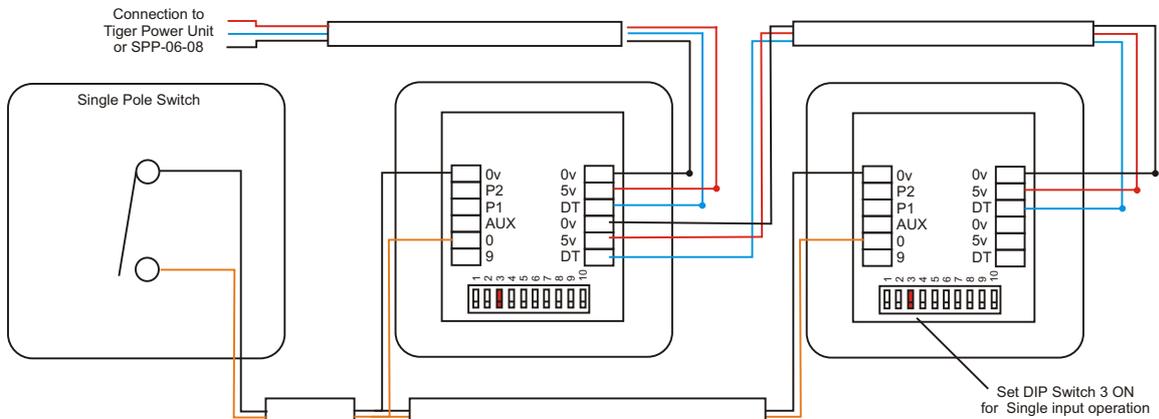
A Volt Free Contact from a PIR can be connected to a Tiger Control Plate to trigger Scene 1 when the contact is closed. When the contact opens a 3 minute timer sequence starts inside the Tiger Control Plate which will trigger scene 0 (OFF) when the sequence times out. Timeout is extendable to 15 minutes by turning DIP Switch 6 ON.



MODE LIGHTING (UK)

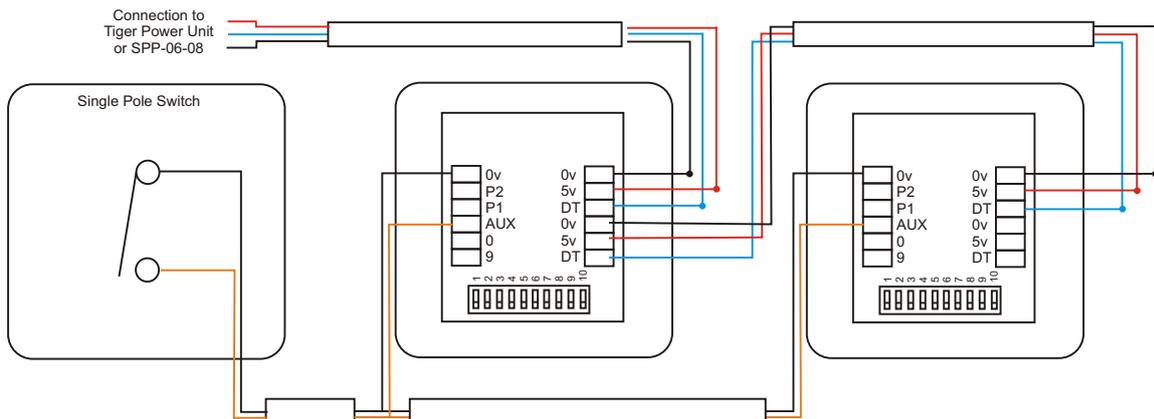
Last Man Out Switch - Single Input

A Single Pole latching switch can be used as a Last man out switch. When closed, Scene 0 (OFF) will trigger. When opened the plate will revert back to its previously selected scene.



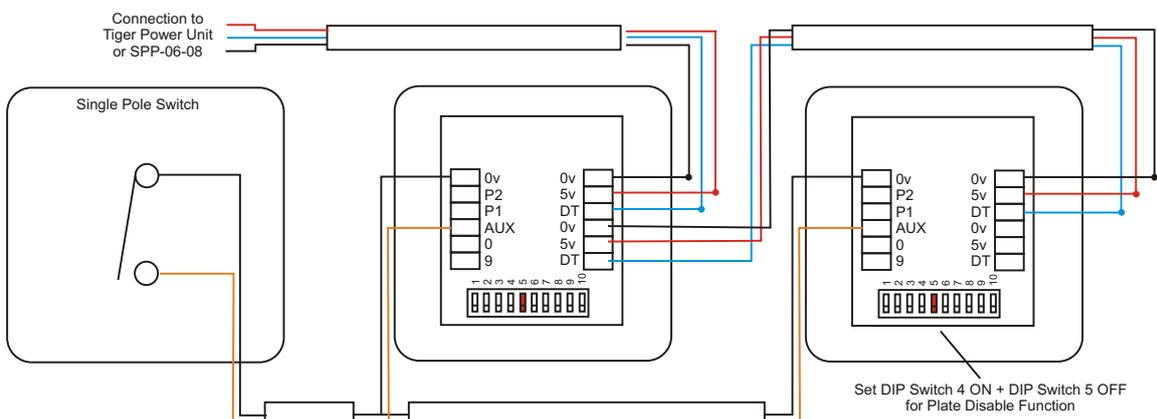
Scene One Override

A Single Pole Switch can be used to trigger Scene One on the control plate using the AUX Terminal. DIP Switches 4 + 5 must be set to OFF for this function to operate



Disable Operation

A Single Pole Switch can be used to diable the Operation of the control plate to prevent unauthorized operation

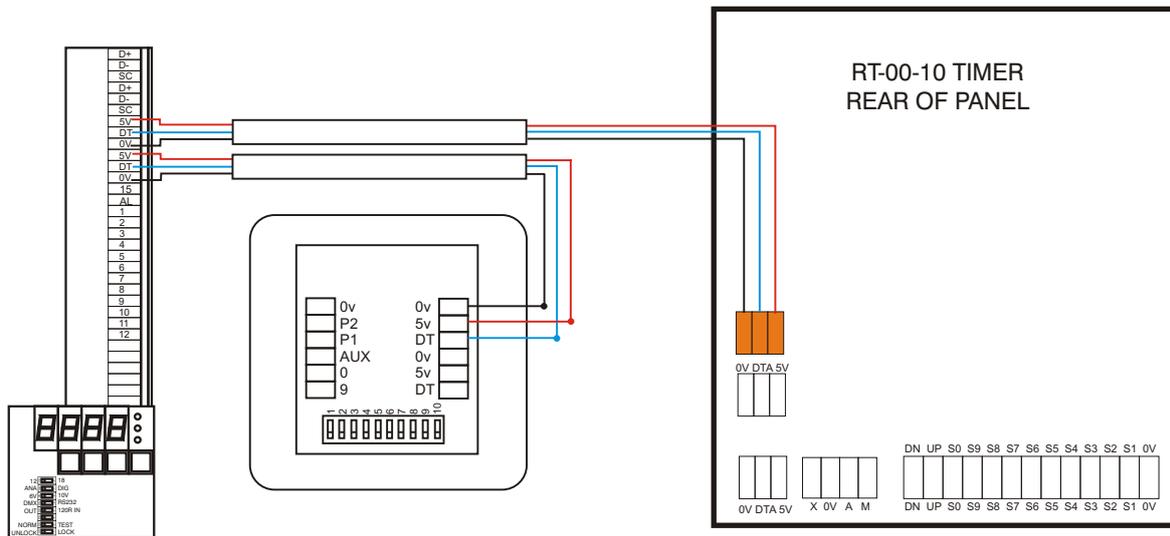


MODE LIGHTING (UK)

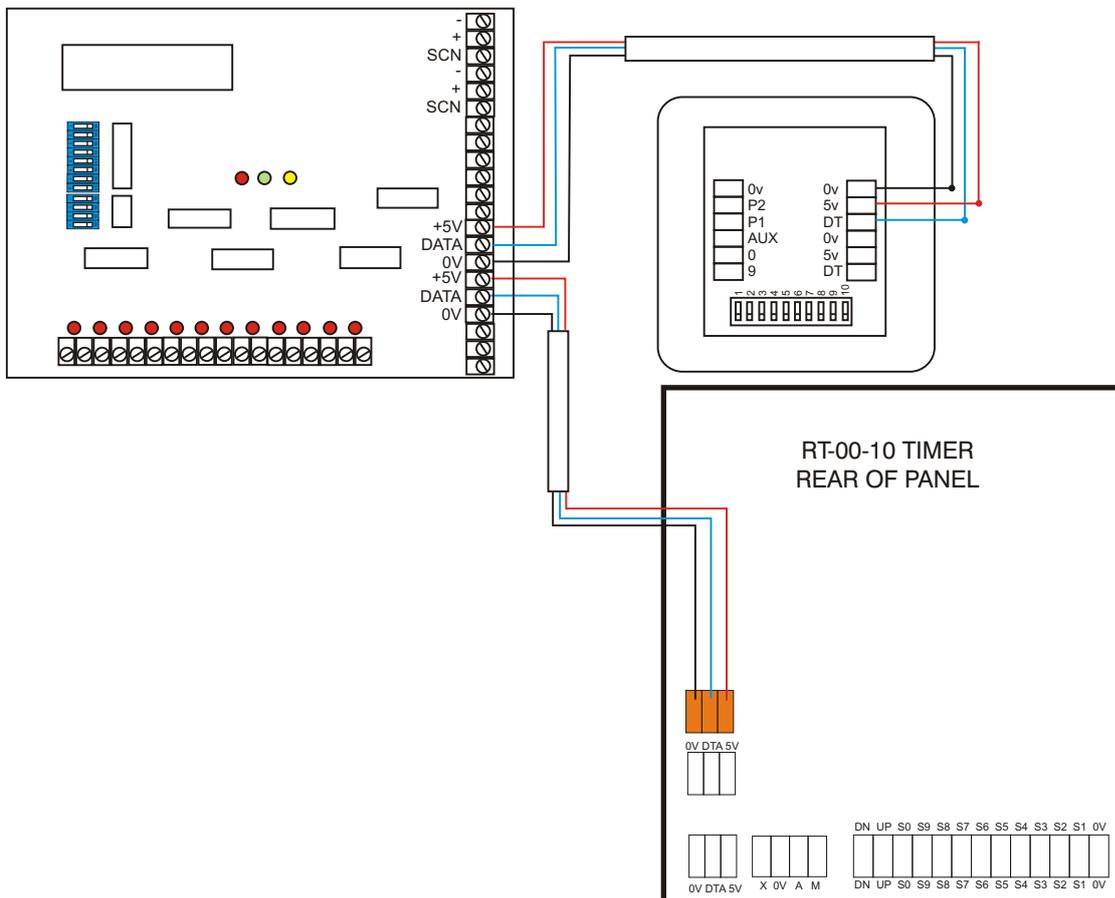
Remote Time Clock - RT-00-10

The RT-00-10 Time Clock connects to the Tiger System using the 0v, DATA and + 5V connections. The Unit can be connected directly to the Tiger or SPP-06-08 Power Units or connected to a control plate. There are in and out connections on the Timer to allow daisy chain connections between devices.

Connection to Tiger Power Unit



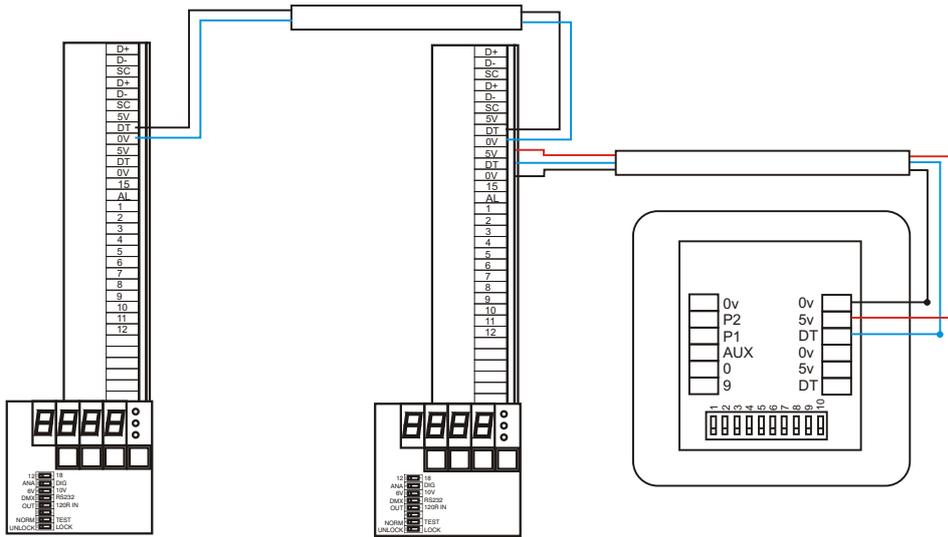
Connection to SPP-06-08 Power Unit



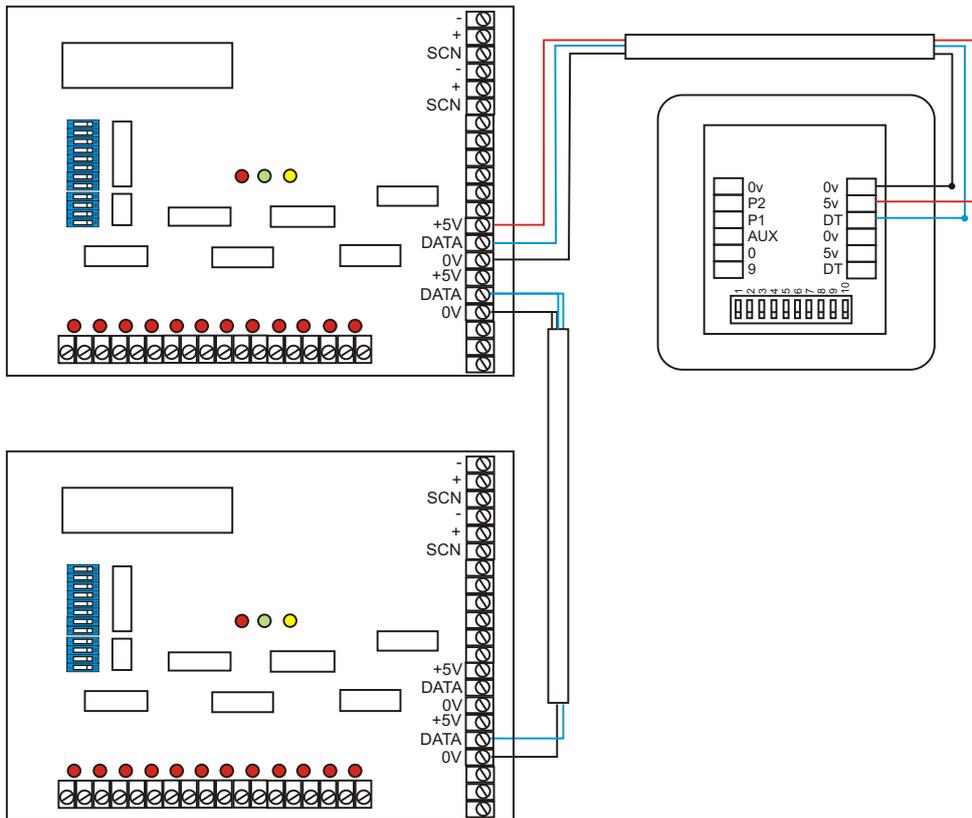
Connecting Multiple Tiger Units

Multiple Units connect together using only the 0v and DATA Connections (The +5V connection is only required to power control devices ie control plates, timeclock and infrared detectors).

Tiger Power Unit to Tiger Power Unit



SPP-06-08 to SPP-06-08



MODE LIGHTING (UK)

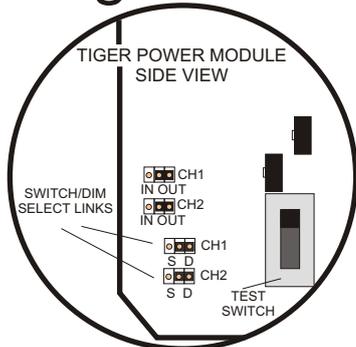
Switched Only Loads

Tiger Units can be used to control switched only loads such as fluorescent or Metal Halide without the need for additional hardware.

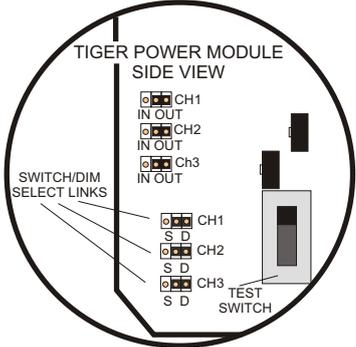
On a Standard Tiger Unit each circuit can be set to switched or dimmed operation by moving a jumper link on the relevant dimmer card

On the SPP-06-08 circuits 5-8 can be set to switched operation using the DIP switches. See below for details.

Tiger Unit

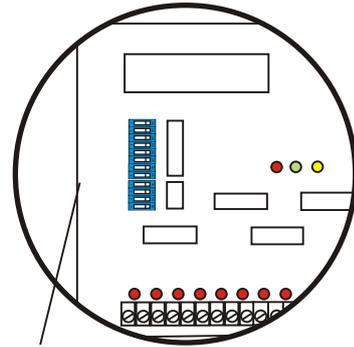


TWO CHANNEL CARDS - AS USED ON TP-10-06 AND TP-10-12 UNITS



THREE CHANNEL CARDS - AS USED ON TP-06-09 AND TP-06-18 UNITS

SPP-06-08 Unit



SET DIP SWITCH 8 ON TOP BLOCK ON (MOVE TO RHS)
CIRCUIT 5 SWITCHED OPERATION
(OUTPUT 9 BECOMES RELATED 1-10V OUTPUT)



SET DIP SWITCH 1 ON LOWER BLOCK ON (MOVE TO RHS)
CIRCUIT 5+6 SWITCHED OPERATION
(OUTPUTS 9 + 10 BECOME RELATED 1-10V OUTPUT)



SET DIP SWITCH 8 ON TOP BLOCK ON (MOVE TO RHS)
SET DIP SWITCH 1 ON LOWER BLOCK ON (MOVE TO RHS)
CIRCUIT 5+6+7 SWITCHED OPERATION
(OUTPUT 9+10+11 BECOME RELATED 1-10V OUTPUT)



SET DIP SWITCH 2 ON LOWER BLOCK ON (MOVE TO RHS)
CIRCUIT 5+6+7+8 SWITCHED OPERATION
(OUTPUT 9+10+11+12 BECOME RELATED 1-10V OUTPUT)

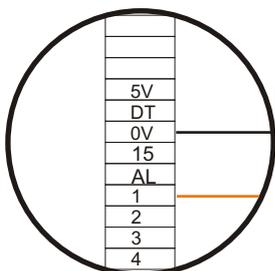
1-10v Controlled Loads

Tiger Units can be used to control 1-10V dimmable loads such as fluorescent. In order to do this set the Mains circuit to switched operation (as above) and take the 1-10v control signal from the Tiger Digital Board (RHS of Unit).

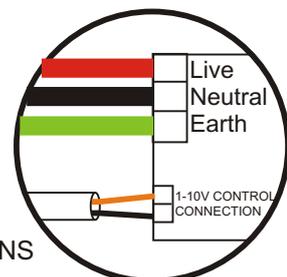
The +ve/10V connection goes to the terminal on the digital board relating to the circuit number within the power unit (1-18)

The -ve/10V connection goes to any terminal marked 0v or SC on the digital board.

When using an SPP-06-08, setting circuits 5-8 to switched operation (as above) automatically configures a +ve/10v control signal on the terminals as noted above. -Ve/1v connections go to terminals marked 0v.



EXAMPLE CONNECTIONS FOR 1-10V CONTROL FOR CIRCUIT ONE



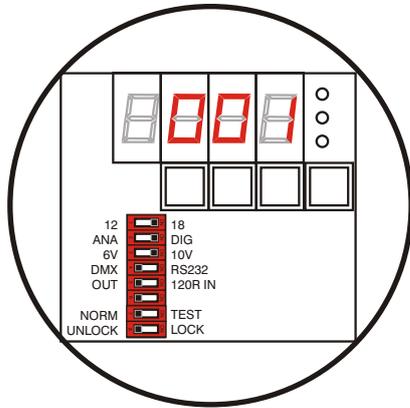
EXAMPLE OF CONNECTIONS TO 1-10V BALLAST

MODE LIGHTING (UK)

Setting up Power Unit Addresses

For installations involving a single Tiger Power Unit or SPP-06-08 the unit must have its address set to address 001.

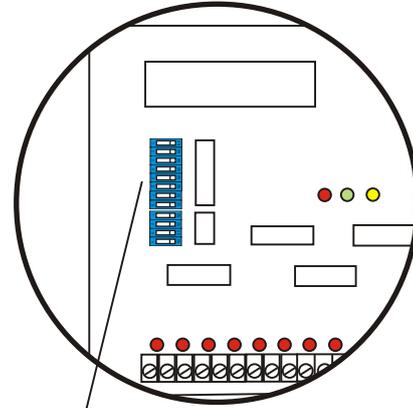
Tiger Unit



SET START ADDRESS TO 001 USING SWITCHES BELOW THE DISPLAY TO CHANGE THE DISPLAY TO 001

ONCE ADDRESS HAS BEEN SET TURN DIP SWITCH 8 (BOTTOM DIP SWITCH) ON TO LOCK ADDRESS INTO UNIT

SPP-06-08 Unit



SET DIP SWITCH 1 ON TOP BLOCK ON (MOVE TO RHS) AND DIP SWITCHES 1-8 OFF (MOVE TO LHS)

For installations involving multiple units there must be a unit with address one (to represent circuit 1 ie the beginning of the system). The addresses are set to identify the first circuit of the unit. For example if a system used two 12 channel Tiger Units the first unit would be address 001 (Circuit 1 - start of system) and the second unit would be address 013 (Circuit 13 - following on from the first unit)

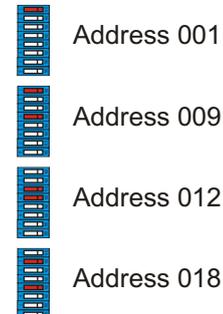
The Tiger Units are set using the switched under the displays as per the example above.

The SPP-06-08 Unit requires its address to be set using Binary format - See examples below

SPP-06-08 DIP Switch Addressing

Switch No:	Address Value:
1	1
2	2
3	4
4	8
5	16
6	32
7	64

Example Addresses



To set the address calculate the address you want
 If the number is higher than 64 turn DIP 7 ON and subtract 64
 If the remaining value is higher than 32 turn DIP 6 ON and subtract 32
 If the remaining value is higher than 16 turn DIP 5 ON and subtract 16
 If the remaining value is higher than 8 turn DIP 4 ON and subtract 8
 If the remaining value is higher than 4 turn DIP 3 ON and subtract 4
 If the remaining value is higher than 2 turn DIP 2 ON and subtract 2
 If the remaining value is 1 turn DIP 1 ON

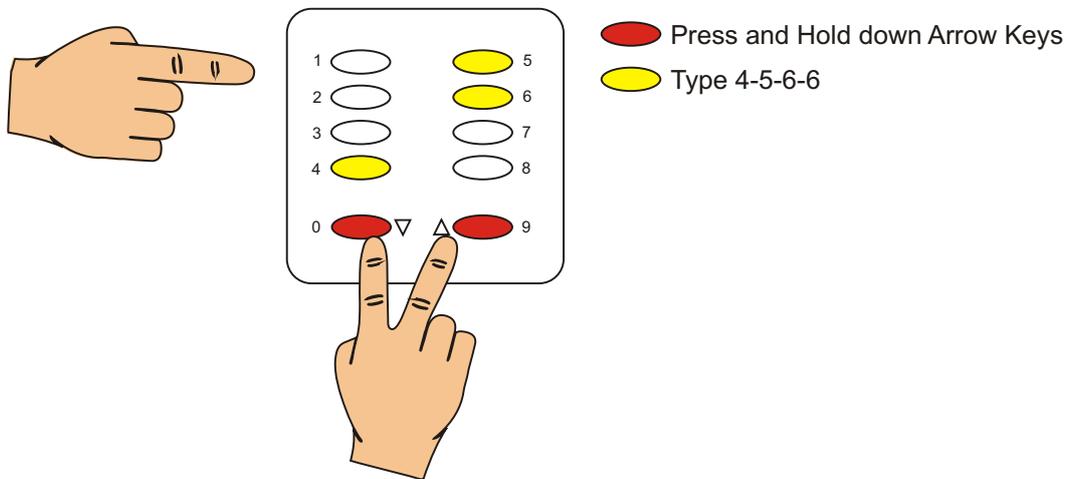
Reset Codes

There are a number of reset codes available that will return either the Power Units or control plates to their default settings.

Clear Tiger Power Units to Factory Setting

PLEASE NOTE: This reset will clear all levels from all areas and return the system to Factory defaults ie All circuits will be controlled by Area One only.

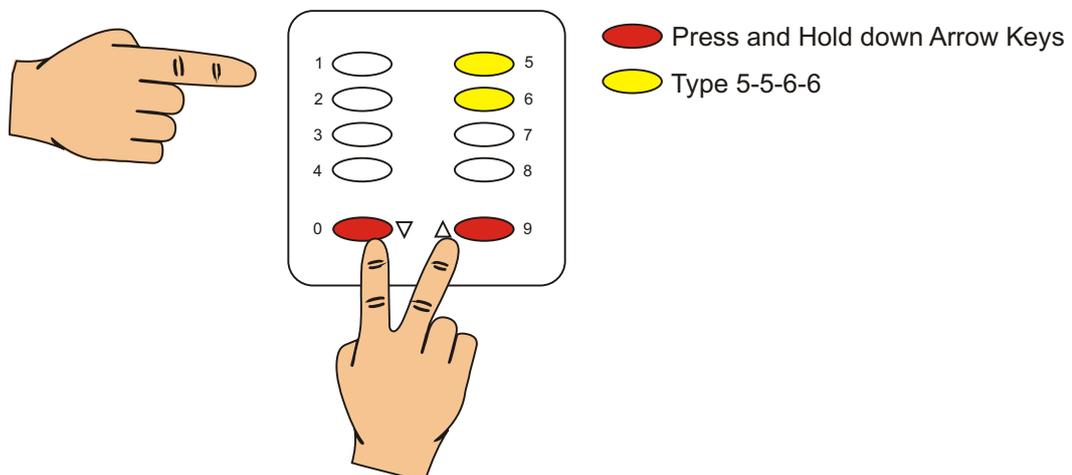
This reset should only be used if you want to clear the programming completely.



Reset Tiger Power Unit and Control Plate Button Colours

PLEASE NOTE: This reset will clear all levels from all areas and return the system to Factory defaults ie All circuits will be controlled by Area One only.

This reset should only be used if you want to clear the programming completely.



Mode Lighting (UK) Limited was established in 1970 as a manufacturer of electronic components for the lighting industry. Mode has an enviable reputation for quality, reliability and customer service. The Mode Group employs more than 140 people in over 10,000m² of well equipped factories, offices and warehouses.

Products include:-

Electronic Transformers for Low Voltage.

Electronic Cold Cathode Convertors.

Architectural Dimming Systems.

Electronic Ballasts.

LED Systems.



TP-10-12

TP-06-09

TP-06-18

TP-10-06

“Controlling the Future of Lighting”