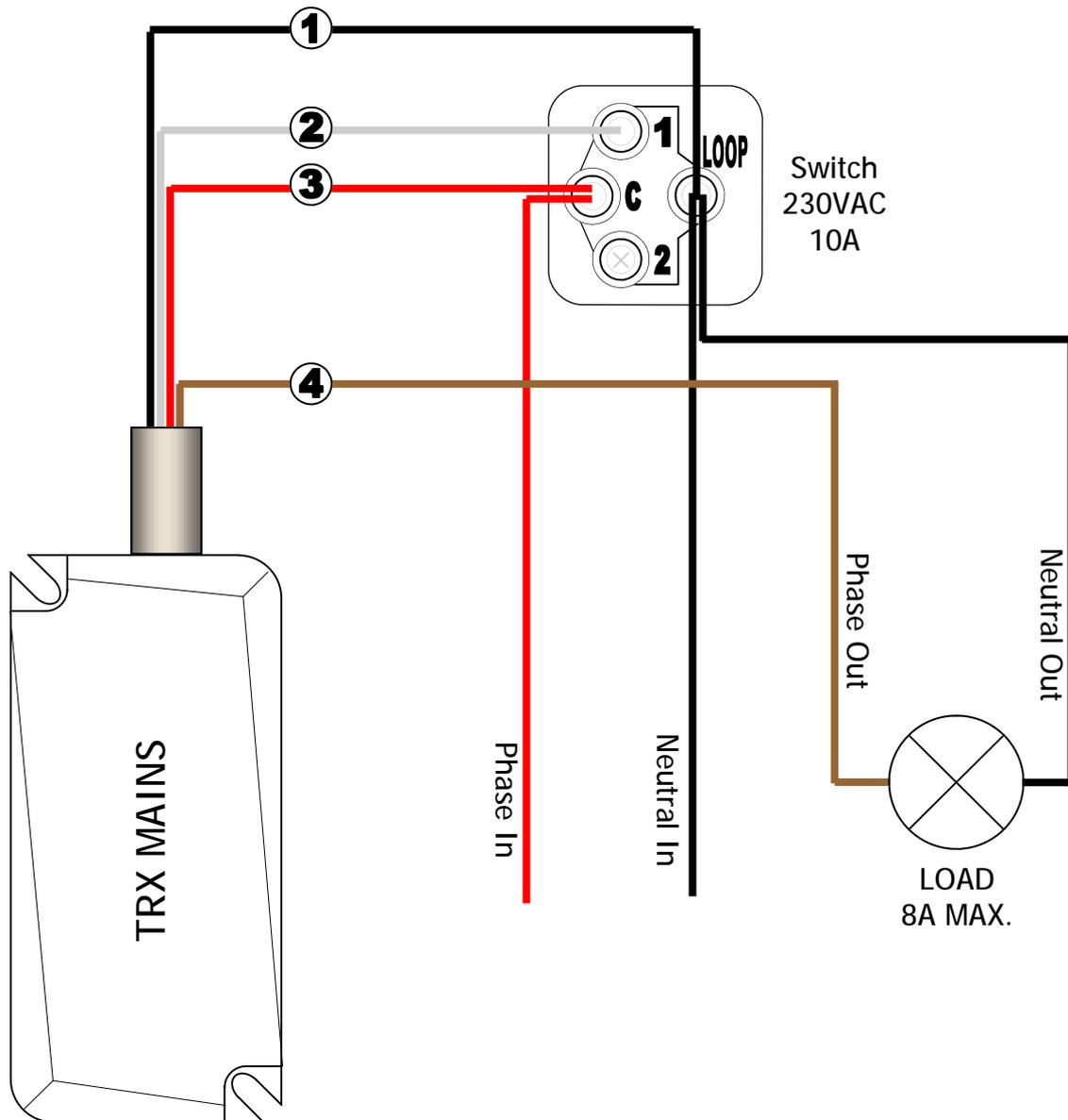


TRX MAINS CONNECTION DIAGRAM



Specifications:

Operating Voltage: 220-240VAC 50Hz

Current Draw: 5mA

Max. Switching Current: 8A Resistive Load, 6A Inductive Load.

Frequency: 917.1 - 921.3 MHz

Connection:

1 = Neutral In

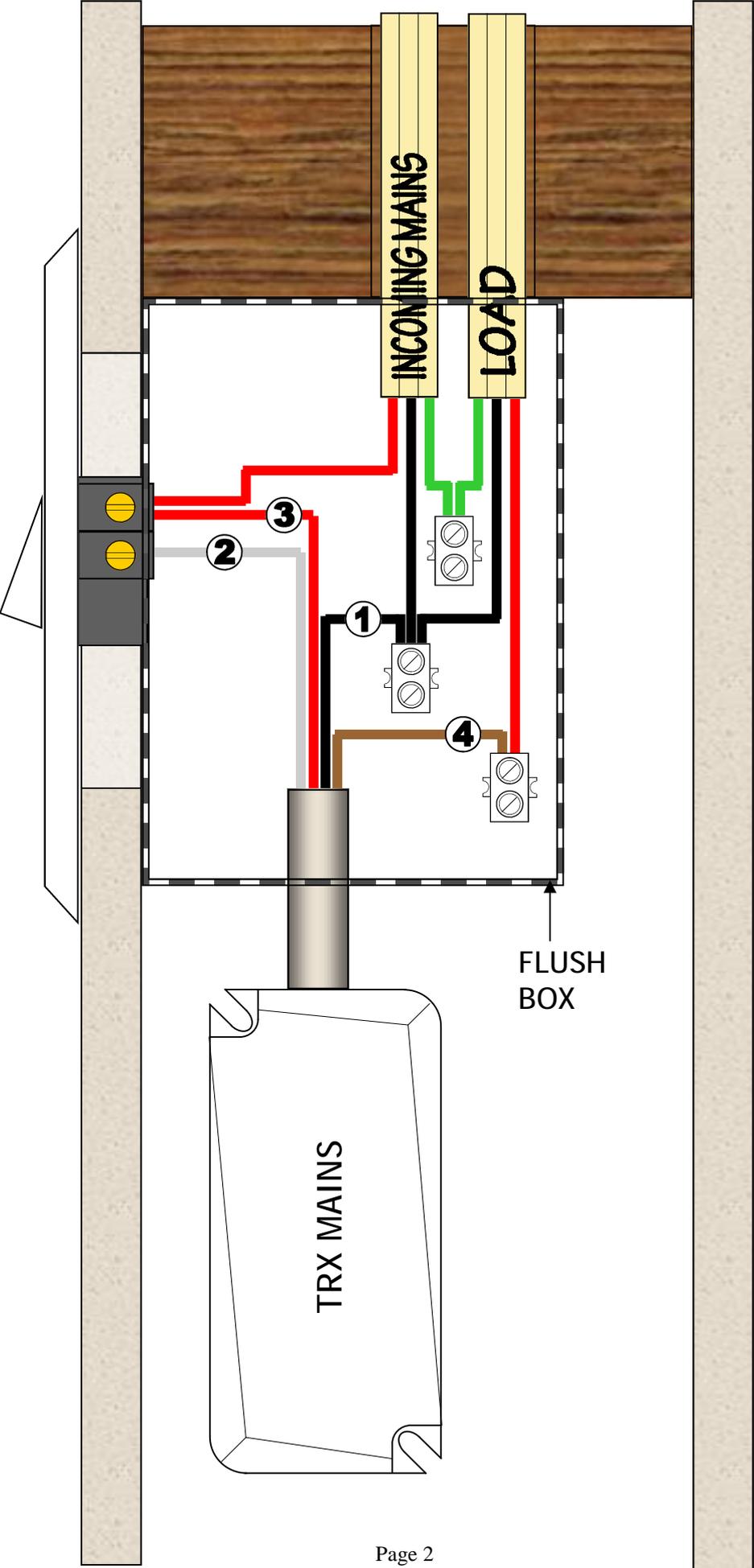
2 = Phase Trigger Input

3 = Phase In

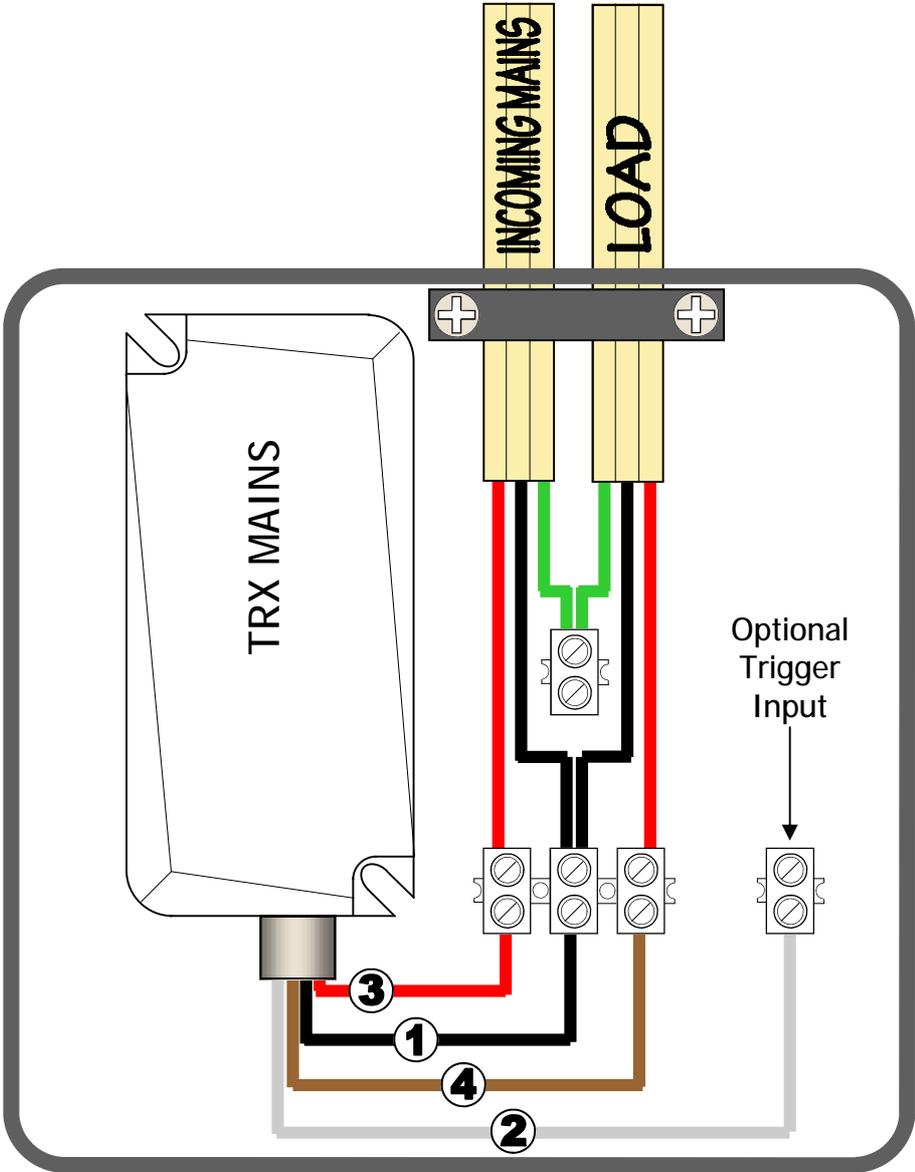
4 = Switched Phase Output, 8Amp Max.

Manufactured by Arrowhead Alarm Products Ltd.
344b Rosedale rd, Albany, Auckland, New Zealand
Ph.09-414-0085 www.aap.co.nz

In Wall Installation



Plastic Enclosure Installation



Use Electrically Approved Plastic Enclosure Only
*Do Not Mount TRX-MAINS in a Metal Enclosure.

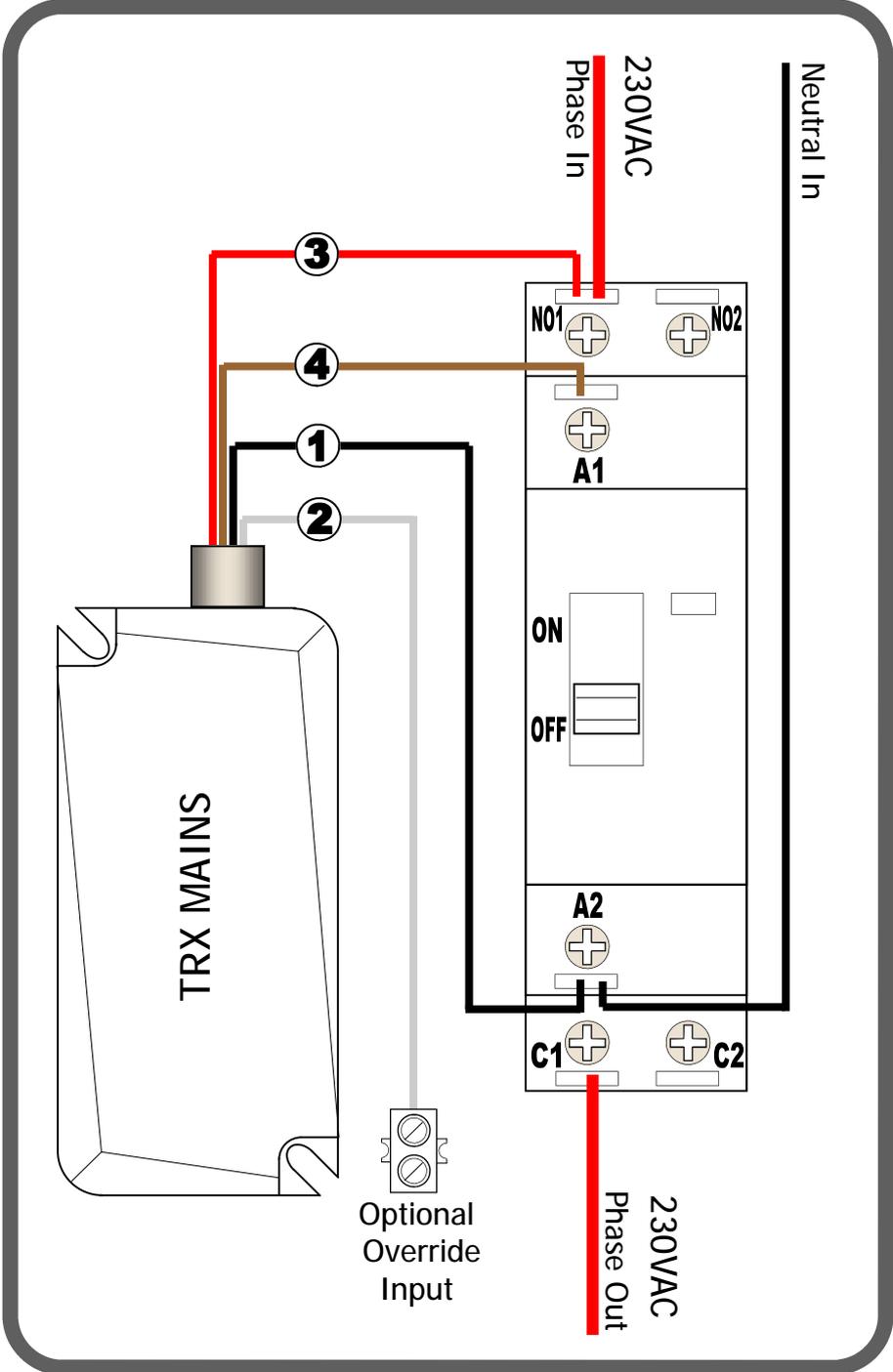
Suitable Enclosures:
TB-AG-1010 (100 x 100mm)
TB-AG-1115 (110 x 150mm)

High Current Contactor Wiring

*Only use Contactors with 230VAC Coil and Contacts to suit switched load.



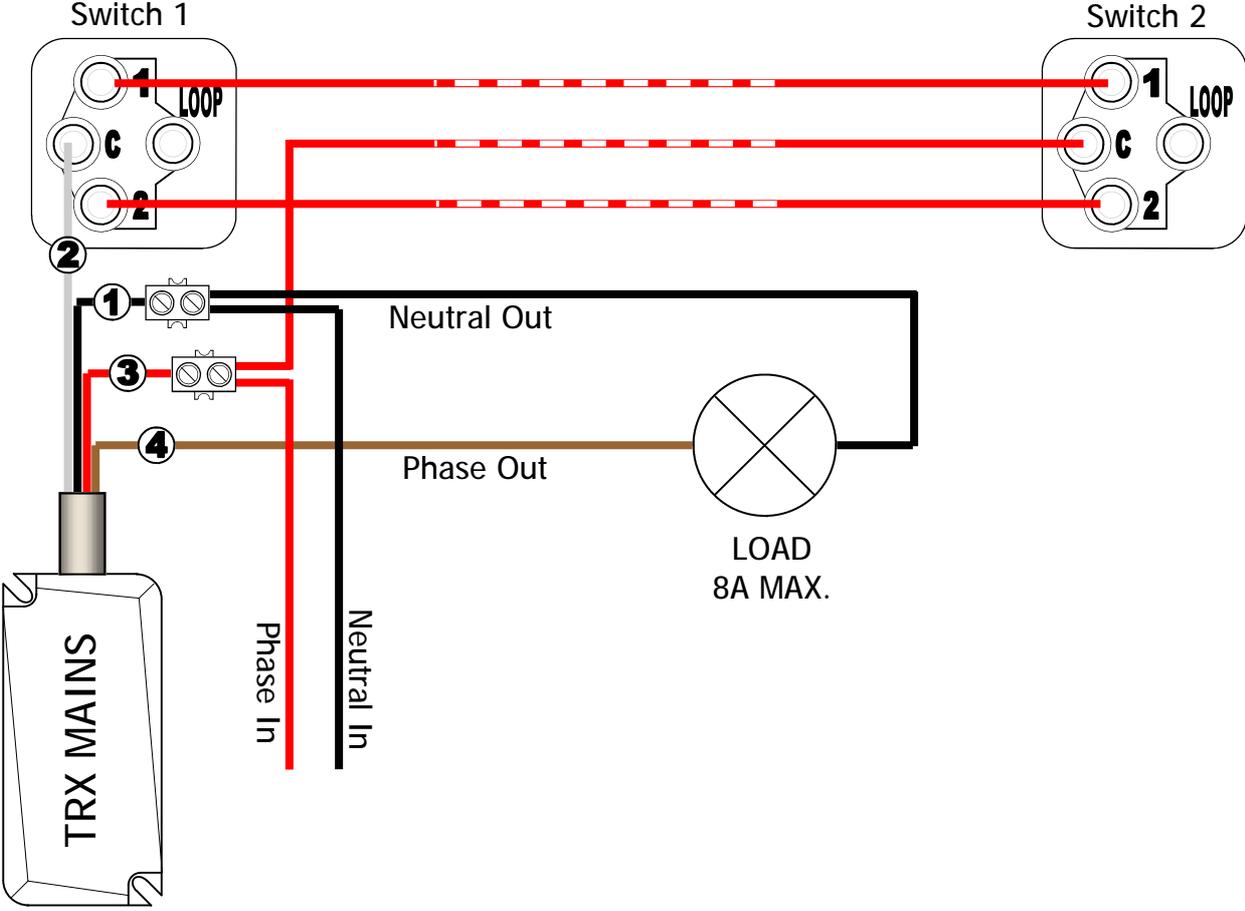
Mounted inside plastic enclose
TB-AG-1115 (110 x 150mm)



Warning: The TRX Mains relay is not suitable for mounting in accessible locations. It must be installed within an enclosure providing suitable insulation, as shown above.

2-Way Light Switching Example

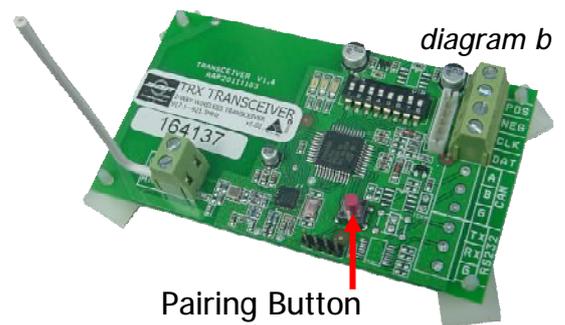
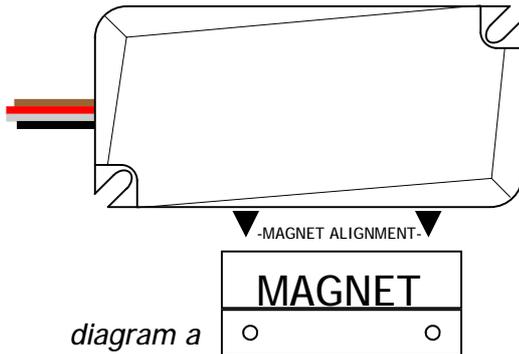
Existing Wired Solution



TRX MAINS Programming Step 1

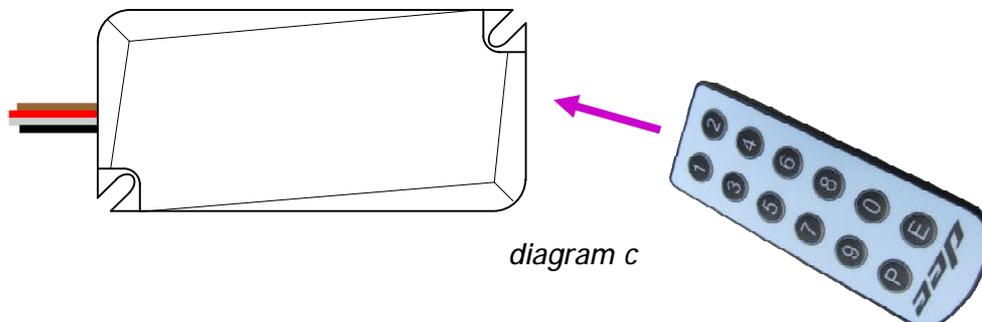
Option 1 Pairing to Transceiver using Magnet

- 1- Safely apply power to the TRX MAINS
- 2- Present & hold the Magnet next to the TRX MAINS (see diagram a).
The TRX MAINS will start beeping as it searches for a device to pair with.
- 3- Now put the TRX TRANSCEIVER (connected to the ELITE S) into pairing mode, by pressing and holding the red button for 2 seconds (see diagram b). The blue pairing LED should start flashing.
- 4- The Beeping from TRX MAINS should then stop, indicating pairing is complete. The blue LED on the TRX TRANSCEIVER will stop flashing after 60 seconds, or press the red button to make it stop.



Option 2 Pairing to Transceiver using IR Remote-10

- 1- Safely apply power to the TRX MAINS
- 2- Point the IR remote at the bottom of the TRX MAINS (see diagram c) and press P then E. The TRX MAINS will start beeping as it searches for a device to pair with.
- 3- Now put the TRX TRANSCEIVER (connected to the ELITE S) into pairing mode, by pressing and holding the red button for 2 seconds (see diagram b). The blue pairing LED should start flashing.
- 4- The Beeping from TRX MAINS should then stop, indicating pairing is complete. The blue LED on the TRX TRANSCEIVER will stop flashing after 60 seconds, or press the red button to make it stop.



TRX MAINS Output Assignment

Advance Output Mapping (requires IR Remote-10)

The Default Assigned Output for the TRX MAINS is 8, to change this please follow the steps below:

- 1- Safely apply power to the TRX MAINS
- 2- Point the IR remote at the bottom of the TRX MAINS and press **P** followed by the Output you wish to Map it to (1-8) then **E**. The TRX MAINS should give a triple beep indicating this was successful.
Note. It is not recommended to Map to Output 1 or 2 as they are for Sirens by default.

- 3- Make a note of this number here and on the TRX MAINS.



Default = 8

Note. Multiple TRX MAINS can be paired to the same Output.

**With an Output Assigned in to the TRX MAINS it's Trigger Input is not Directly linked to the Switched Output. If you wish the Trigger Input to activate the Switched Output you must program it into the Elite S Panel.*

Programming Trigger Input to Switched Output Link with ESL Control Board

The ESL v908.12c has pre assigned slots for the TRX Mains devices.

If you have an Elite-S or Elite-S-Lite Control board v908.12b or older please use programming on page 8

Follow the list below for the Addresses that relate to the TRX Mains Output number assigned:

**Programming below is done from the Control Panel Keypad in Installer Mode.*



- 1- Learn State 1 (ON) to the first User slot
P 18 E 90 E E (when beeping starts flick the switch connected to the TRX Mains On)
- 2- Learn State 2 (OFF) to the second User slot. *if you have a momentary switch, skip this step*
P 18 E 91 E E (when beeping starts flick the switch connected to the TRX Mains Off)
- 3- Adjusting Output Reset Time, the default reset time is only 2 seconds.
P 40 E 3 E 0 E (lights now will not automatically turn off)



- 1- Learn State 1 (ON) to the first User slot
P 18 E 92 E E (when beeping starts flick the switch connected to the TRX Mains On)
- 2- Learn State 2 (OFF) to the second User slot. *if you have a momentary switch, skip this step*
P 18 E 93 E E (when beeping starts flick the switch connected to the TRX Mains Off)
- 3- Adjusting Output Reset Time, the default reset time is only 2 seconds.
P 40 E 5 E 0 E (lights now will not automatically turn off)



- 1- Learn State 1 (ON) to the first User slot
P 18 E 94 E E (when beeping starts flick the switch connected to the TRX Mains On)
- 2- Learn State 2 (OFF) to the second User slot. *if you have a momentary switch, skip this step*
P 18 E 95 E E (when beeping starts flick the switch connected to the TRX Mains Off)
- 3- Adjusting Output Reset Time, the default reset time is only 2 seconds.
P 40 E 6 E 0 E (lights now will not automatically turn off)



- 1- Learn State 1 (ON) to the first User slot
P 18 E 96 E E (when beeping starts flick the switch connected to the TRX Mains On)
- 2- Learn State 2 (OFF) to the second User slot. *if you have a momentary switch, skip this step*
P 18 E 97 E E (when beeping starts flick the switch connected to the TRX Mains Off)
- 3- Adjusting Output Reset Time, the default reset time is only 2 seconds.
P 40 E 7 E 0 E (lights now will not automatically turn off)



- 1- Learn State 1 (ON) to the first User slot
P 18 E 98 E E (when beeping starts flick the switch connected to the TRX Mains On)
- 2- Learn State 2 (OFF) to the second User slot. *if you have a momentary switch, skip this step*
P 18 E 99 E E (when beeping starts flick the switch connected to the TRX Mains Off)
- 3- Adjusting Output Reset Time, the default reset time is only 2 seconds.
P 40 E 8 E 0 E (lights now will not automatically turn off)

Assigning Input Control with Elite-S & Elite-S-Lite PCB

Choose 2 Spare User Slots from 21 to 100 and put them in where you see these boxes →

Ua=

Ub=

*Programming below is done from the Control Panel Keypad in Installer Mode.

1- Learn State 1 to the first User slot

P 18 E Ua= E (when beeping starts flick the switch connected to the TRX Mains On)

2- Learn State 2 to the second User slot. *if you have a momentary switch, skip this step and 8 to 11*

P 18 E Ub= E (when beeping starts flick the switch connected to the TRX Mains Off)

3- Set the User Assignment State 1 (by default all user slots Arm and Disarm, this needs to be changed)

P 4 E Ua= E turn Off all options E

4- Output Mapping for State 1

P 12 E Ua= E TR= E

5- Output On Command for State 1

P 13 E Ua= E TR= E

6- Output Off Command for State 1

P 14 E Ua= E TR= E

7- Output Permission

P 34 E TR= E turn On option 6 E

8- Output Reset Time

P 40 E TR= E turn On option 6 E

9- Set the User Assignment

P 4 E Ub= E turn Off all options E

10- Output Mapping for State 2

P 12 E Ub= E TR= E

11- Output On Command for State 2

P 13 E Ub= E TR= E

12- Output Off Command for State 2

P 14 E Ub= E TR= E

Range Test

Once you have learnt the Trigger Input into the panel, a range test is recommended

*Programming below is done from the Control Panel Keypad in Installer Mode.

P 200 E 14 E E *now Activate the Trigger Input*

The User Slot it has been loaded into will flash up and a percentage. 100% = full signal strength.

Note. Repeat the process for each TRX MAINS device,

If less than 30% consider relocating the TRX Transceiver to get better signal strength.

Group Mode Programming

If Group Mode has been selected, the TRX MAINS will turn On when Output 7 from the panel turns On and will turn Off when Output 8 from the panel turns On.

This allow multiple TRX MAINS modules all set to Group Mode to turn off and on together from a panel request, such as: Arming/Disarming the alarm, Fire/Burglar alarm activation, Timer control.

In Group Mode the Trigger Input is always directly linked to the Switched Output. A change in state of the Trigger Input will change the Switched Output state, regardless of what position the switch is in.

Selecting Group Mode

To set a TRX MAINS to Group Mode you must use the IR-Remote-10

1- Safely apply power to the TRX MAINS

2- Point the IR remote at the bottom of the TRX MAINS (see diagram c) and press P, 0 then E.

The TRX MAINS will give a triple beep if accepted.

Programming Options

*Programming below is done from the Control Panel Keypad in Installer Mode.

Lights Off when System is Armed

P 47 E 1 E (turn 8 On) E

Lights On when System is Disarmed

P 49 E 1 E (turn 7 On) E

Lights On when Fire Alarm Activates

P 130 E (zone No. of smoke detector 1-16) E (turn 7 On) E (must be done for each 24-hour Fire zone)

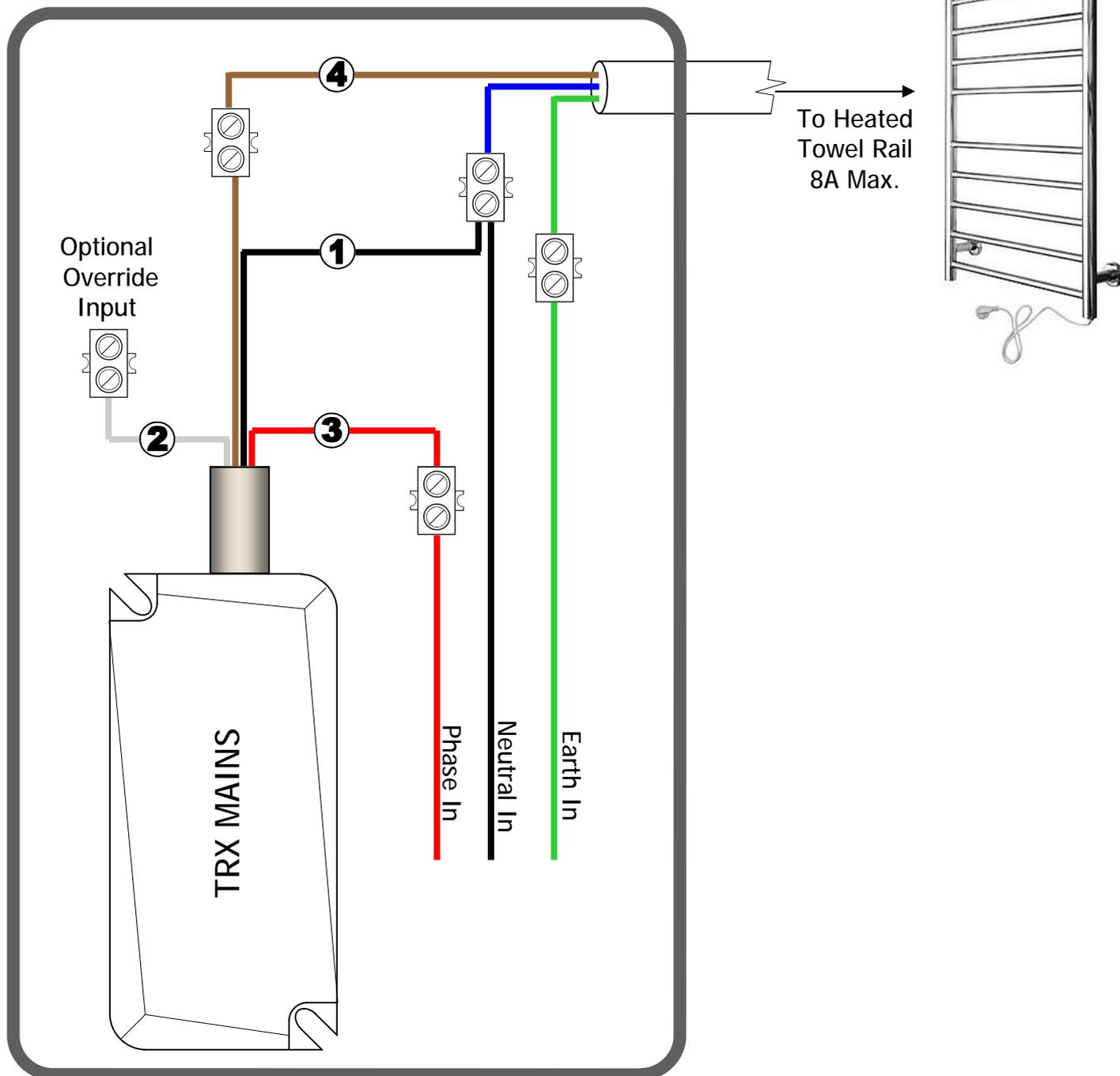
Lights On when Burglar Alarm Activates

P 128 E (zone No. of detector 1-16) E (turn 7 On) E (must be done for each zone/detector)

Lights On when Stay Burglar Alarm Activates

P 129 E (zone No. of detector 1-16) E (turn 7 On) E (must be done for each zone/detector)

Heated Towel Rail Wiring



Mounted inside plastic enclose
TB-AG-1010 (100 x 100mm)

Warning: The TRX Mains relay is not suitable for mounting in accessible locations. It must be installed within an enclosure providing suitable insulation, as shown above.

Smart Features

Automatic On/Off timer (Recommended for Heated Towel Rail)

There are 8 different On/Off timers that can be set in the Elite-S series control panel.

Before starting the Programming steps below make sure the TRX Mains has been paired to the TRX Transceiver (see page 6) and an Output number has been assigned (see page 7).

*Programming below is done from the Control Panel Keypad in Installer Mode.

1- Set On Time 1.

P 172 E 1 E (enter start time is 24hr format 0000-2359) E

2- Set Off Time 1. *note Off time must be after On time.*

P 173 E 1 E (enter finish time is 24hr format 0000-2359) E

3- Set Timer 1 Days of Week.

P 171 E 1 E (put in day active days 1-7, see table) E

4- Assign Timer 1 to an Output.

P 44 E (enter output number)  = E 1 E

5- Changing Reset Timer of Output.

P 40 E  = E 0 E

No. Day

1 = Sunday

2 = Monday

3 = Tuesday

4 = Wednesday

5 = Thursday

6 = Friday

7 = Saturday

Need another On and Off sequence? Follow the steps below.

6- Set On Time 2.

P 172 E 2 E (enter start time is 24hr format 0000-2359) E

7- Set Off Time 2. *note Off time must be after On time.*

P 173 E 2 E (enter finish time is 24hr format 0000-2359) E

8- Set Timer 2 Days of Week.

P 171 E 2 E (put in day active days 1-7, see table) E

9- Assign Timer 2 to an Output.

P 44 E (enter output number)  = E 2 E

Automatic Turn Lights Off when System Arms

Each Output (TRX MAINS) can be Selected to turn Off when the Alarm System is Armed.

*Programming below is done from the Control Panel Keypad in Installer Mode.

P 54 E 1 E  = E (each TRX Mains number can be turned on here)

Note. Don't turn on 1 or 2 this will trigger the sirens

Adjusting Lights On Exit Timer

Once you have turned On the option above, you can choose to extend the Off delay time up to 25 seconds. This will give you an illuminated exit from the property before turning the lights Off.

Each Output (TRX MAINS) can be adjusted individually.

*Programming below is done from the Control Panel Keypad in Installer Mode.

P 39 E  = E time in 10ths/second 1-255 E (250 = 25seconds)

Note. Repeat the process for each TRX MAINS you wish to have this feature

Fallback Feature

If communication is lost to the TRX Transceiver, the TRX Mains will automatically Fallback and operating directly from it's Trigger Input.

Warning! This unit contains no user serviceable parts, it must be returned to the manufacture if it fails to operate or the cable is damaged.
Install only as per manufactures instructions and/or in recommended enclosure.

ARROWHEAD ALARM PRODUCTS Ltd.
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Auckland.
Ph. 09 414 0085
Fax. 09 414 0088
www.aap.co.nz
v1.01

