RAK4-R Instruction Manual

For programming information: <u>Wireless RAK Programming</u> <u>guide</u> or <u>Wired system Programming Guide</u>



For general system information: <u>Wireless RAK Application</u> <u>Sheet or Wired RAK Application Sheet</u>

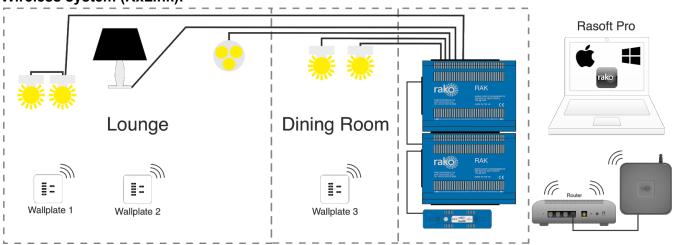
<u>Overview</u>

The Rako RAK4-R is a four channel controller which can be used to operate most types of Curtain, Blinds and Screen motors.

Each of the four outputs comprise two uncommitted volt-free relays. The relays can be wired or switched to suit the specific motor connected to them. The RAK4-R provides aux Live outputs that can be used to drive AC motors.

RAK4s, combined with a Link device (Rx-LINK or RAK-LINK) can either be used as a single 4 channel unit or formed into a "stack". RAK4s can be also be used in combined stacks with RAK8-MB units on the same Link device.

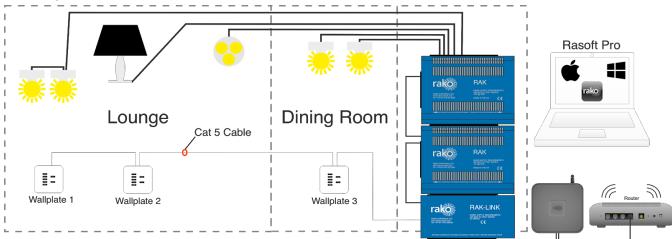
Before commencing installation of a Rako product first read this instruction manual carefully. Rako Controls Ltd. accepts no responsibility for any damage or injury caused by incorrect installation of a Rako product. Installation should only be carried out by a qualified electrician. Always install RAK units in a well ventilated room, with a minimum clearance of 50mm at the sides in the correct orientation i.e. vents top and bottom. Each RAK unit must be earthed.



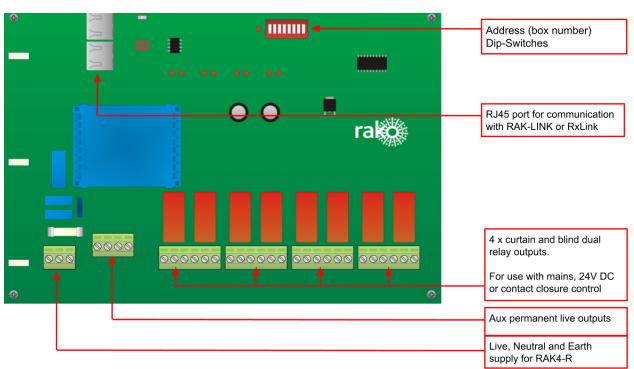
Wireless system (RxLink):

The RxLINK is used to integrate the RAK(s) into the wireless system and can support a total of 16 circuits. For example two RAK8s or one RAK8 and two RAK4s.





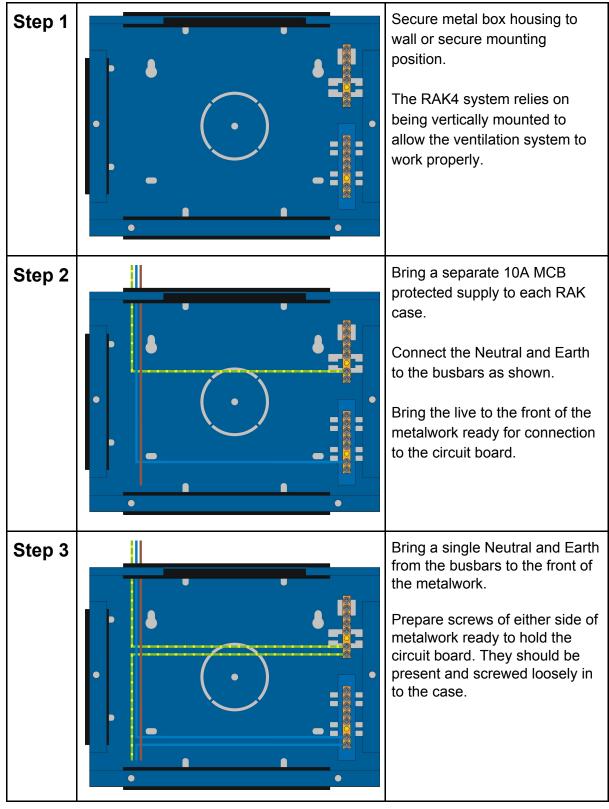
The RAK-LINK is used to integrate the RAK(s) into the Rako Wired Network and can support a total of 32 circuits. For example 4 RAK8s or 3 RAK8s and 2 RAK4s.

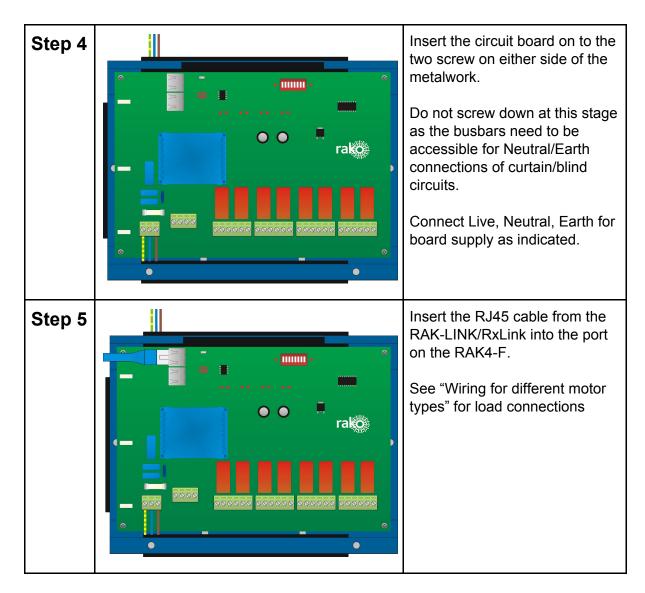


Circuit Board

Installation

POWER SHOULD BE ISOLATED THROUGHOUT THE INSTALLATION PROCESS





Wiring for different motor types:

Mains switching

The RAK4-R is most commonly used with "mains switching blinds". The six way terminal block is fed with permanent mains and has two switched outputs. A three core and earth cable should be run from the RAK4-R to the blind.

24V Polarity switching

The RAK4-R can also be used to control 24V polarity switching blinds. In this case a separate 24V power supply is required and a two core cable should be run from the RAK4-R to the blind.

Contact Closure

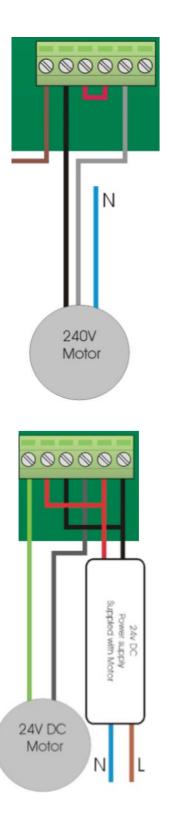
The RAK4-R can be used to provide a control signal to the blinds. In this case a 3 core cable is run from the RAK4-R to the blind control box.

RAK4-R



Mains Blinds wiring:

Terminal	Mains
1	Permanent Mains
2	Relay A Output (Open)
3	Linked to 4
4	Linked to 3
5	Relay B Output (Close)
6	Not used

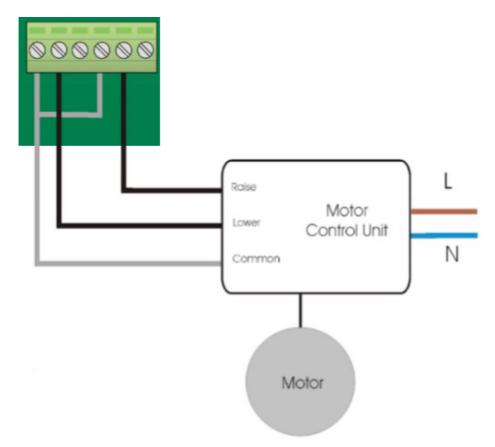


24V Blind wiring:

Terminal	24V
1	Relay A Output (Open)
2	+24V from PSU
3	0V from PSU
4	Relay B Output (Close)
5	+24V from PSU
6	0V from PSU

Contact closure blind wiring diagram:

Terminal	Contact Closure
1	Common
2	Relay A Output (Open)
3	Not used
4	Common
5	Relay B Output (Close)
6	Not used



Rako thanks you for having purchased a Rako product and hopes that you are pleased with your system. Should for any reason you need to contact us please contact us via our website <u>www.rakocontrols.com</u> or by phoning our customer help line on 01634 226666.

