



C Prox Ltd (Inc Quantek)

11 Callywhite Business Park, Callywhite Lane, Dronfield S18 2XP
 +44(0)1246 417113 sales@cproxltd.com www.quantek.co.uk

RC2000 Manual

Introduction

The RC2000 is designed to control a 230Vac tubular motor with built in limit switches, control is by means of a radio transmitter or manual push buttons.

Installation should be undertaken by a competent person who should configure the RC2000 and additional safety devices to provide maximum safety to people and property. Please read this manual carefully before proceeding.

Installation

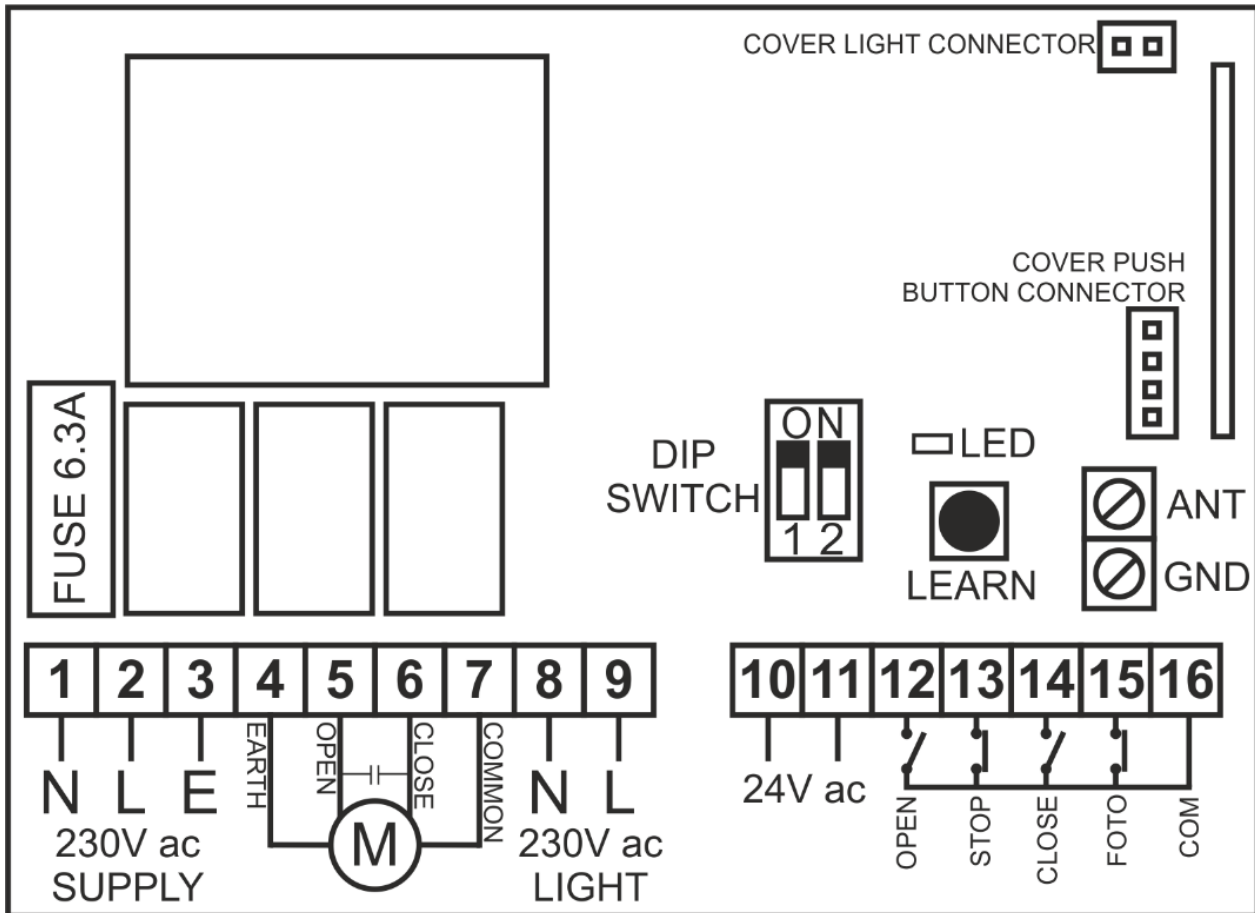
- Fix the mounting plate to the wall using the wall plugs and screws supplied.
- Hook the unit onto the mounting plate and secure at the bottom with the two small black screws supplied.
- Fit the cable glands and white seal to the cover. Fit the cover hinges (if required).

Wiring



Ensure that the 230V power supply is switched off before making any connections!

Thread the cables through the cable glands and wire to the terminals as below.



230Vac supply		Motor		Courtesy light		24V supply		Accessories	
1	Neutral Blue	4	Earth Yellow/green	8	Neutral	10	24Vac non-polarity	12	Open button (NO)
2	Live Brown	5	Open Brown	9	Live	11		13	Stop button (NC)
3	Earth Yellow/green	6	Close Black					14	Close button (NO)
		7	Common Blue					15	Photocell (NC)
								16	Common

POWER SUPPLY – The 230V ac supply should be taken from a fused spur and connected to the 230V ac power supply terminals 1, 2 & 3.

MOTOR – Connect the cable from the motor to terminals 4, 5, 6 and 7. The brown motor cable is open, black is close, common is blue. If it is a left-hand mounted motor, swap brown and black wires. 500 Watt max.

COURTESY LIGHT – A 230V ac courtesy light (100 Watts max.) can be connected to terminals 8 & 9, it will light for 60 seconds when the door is operated.



The following connection terminals should under no circumstances have any external voltages connected to them

24V SUPPLY – Terminals 10 & 11, a 24V ac power supply to power photocells etc, maximum load 100mA

SAFETY – Terminals 15 & 16, for the connection of a photoelectric safety beam, active only during the closing cycle. This is a normally closed input, and the terminals must be linked if not used.

OPEN – Terminals 12 & 16, for connection of a normally open (push to make) momentary push button or key switch
A control signal from a fire alarm may be connected to the OPEN terminals, this should be a volt free normally open relay contact, when the fire alarm is activated the door opens.

CLOSE – Terminals 14 & 16, for connection of a normally open (push to make) momentary push button or key switch

STOP – Terminals 13 & 16, for connection of a normally closed (push to break) emergency stop button. The terminals must be linked if no button is connected.

Dip switch settings

Important! The deadman close function must be selected when the safeguarding of the closing edge of the door cannot be guaranteed.

1 - Closing options	ON – Push to run, closes automatically with one press of the transmitter or connected close button
	OFF – Hold to run (deadman), closes only whilst the transmitter close or connected close button is kept pressed
2 - Safety photocell closing options	ON – When activated door will stop and reverse
	OFF – When activated door will stop, when the safety circuit is closed again the door continues closing

Transmitter programming

The 2 transmitters supplied have been programmed, if you do not have additional transmitters you can skip this step, if you do have additional transmitters program them as follows:

Push and **release** the LEARN button, the LED indicator lights, **within 10 seconds** (whilst the LED is still lit) push any of the transmitter buttons, the LED indicator flashes confirming it has memorised the transmitter, repeat for additional transmitters, the transmitters are now programmed and ready to use.

Deleting transmitter codes

Push the LEARN button, keep pressed for 10 seconds, the LED flashes and then switches off, all codes are now deleted.

Troubleshooting

- Door will not close when photocells are connected - Disconnect them and link the safety terminals 15 & 16. If the door now closes check for correct alignment & operation of the photocells.
- Door closes when the photocells are activated whilst the door is opening - Motor open and close connections are reversed.

Technical data	
Power supply	230Vac
Motor power	500 Watts
Radio frequency	868.35MHz
Motor run time	60 seconds
Memory	32 transmitters
Motor fuse	6.3A delayed
Dimensions	210 x 141 x 85mm (with glands)
Protection	IP56

EC DECLARATION OF CONFORMITY
<p>C Prox Ltd (inc Quantek) Unit 11 Callywhite Business Park Dronfield Derbyshire S18 1RS</p> <p>Declares herewith that the products designated below complies with the relevant fundamental requirements of Article 3 of the R&TTE Directive 1999/5/EG, 98/37/CE Directive on Machines, 89/336/EEC Directive on electromagnetic compatibility and 73/23/EEC on low voltage and its subsequent amendment 93/68/EEC, insofar as the product is used correctly.</p> <p>Product: RC2000, T1-M Environment of use: Residential, commercial and light industry Standards: Telecommunications EN300 220-3 V1.3.1 2000. Electromagnetic Compatibility EN 301 489-3 V1.4.1 2002. Low Voltage EN607030 1:2000</p>
