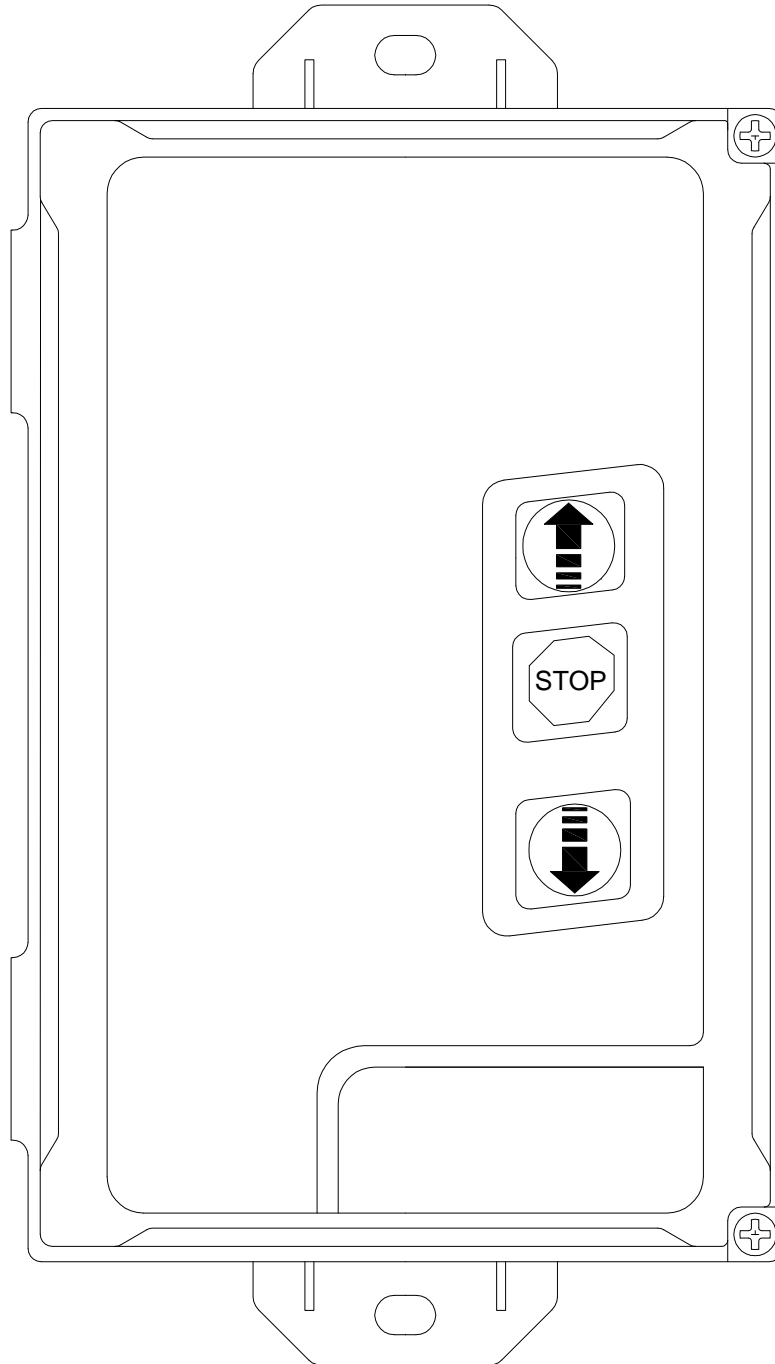


ELLARD

THE HOME OF AUTOMATION

DC2 Controller

(Quick Start Guide)



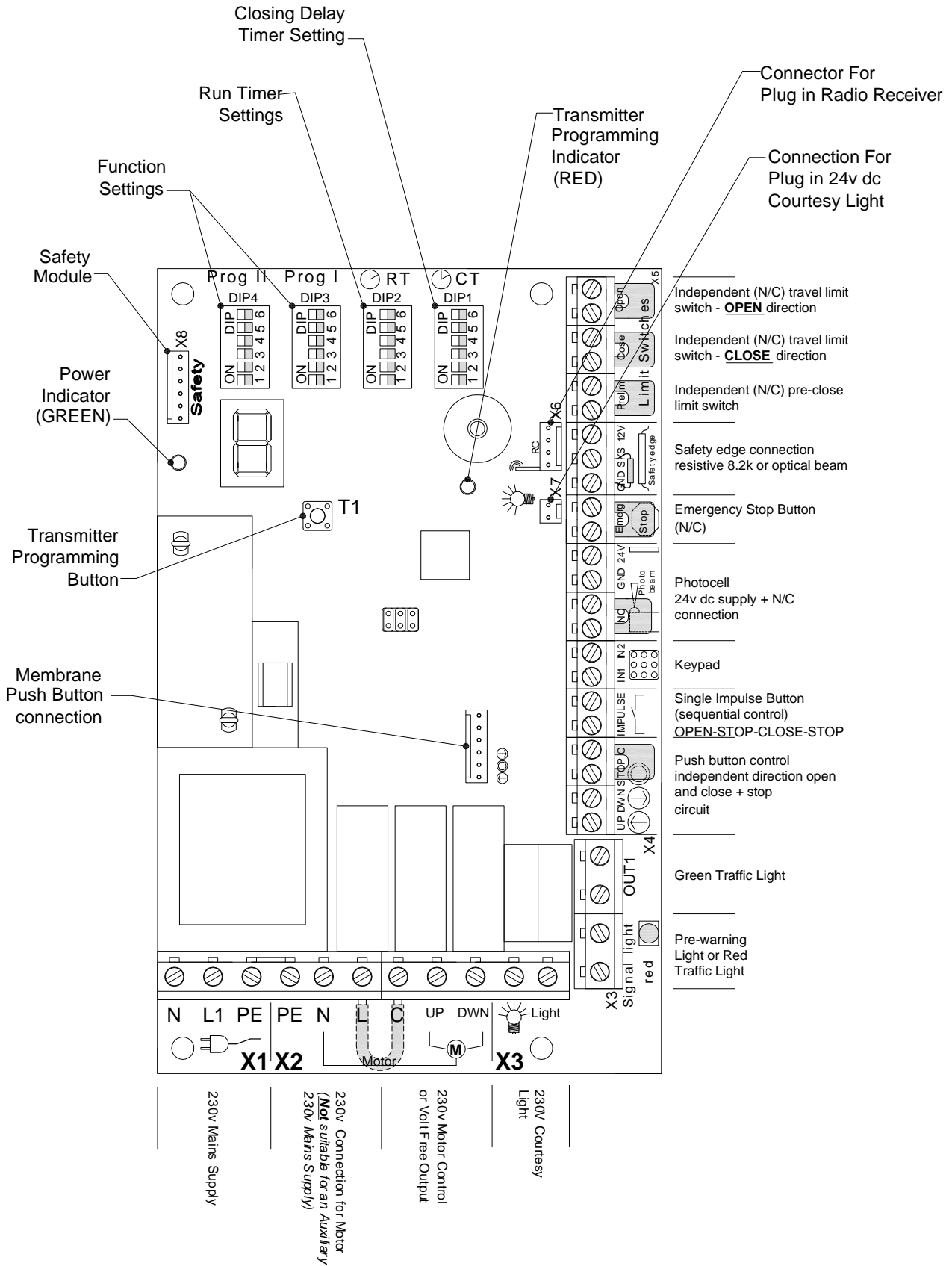
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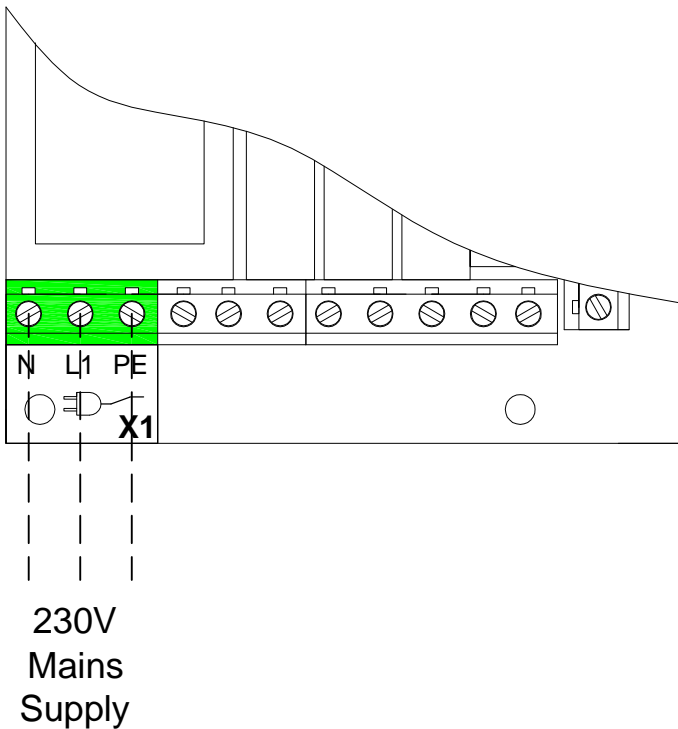
Important Information

This booklet is a quick start guide for 'ellard' products, it is no way intended as a direct replacement of the manufacturers manual
All safety information and regulations are contained within the manufacturers manual should be veiwed before installation.

DC2 general connections



230 volt Mains Power



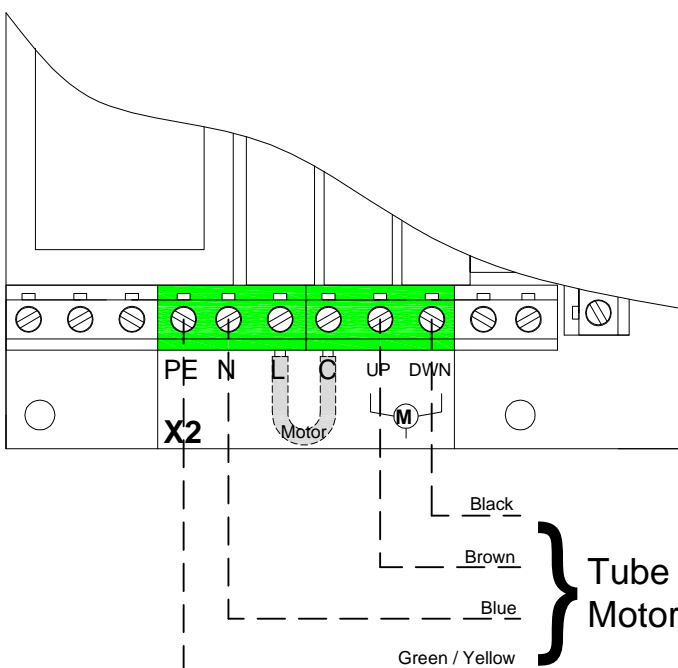
Mains Power Connection

PE = EARTH (Grn/Yel)
L1 = LIVE (Brown)
N = NEUTRAL (Blue)

Use these terminals as a direct connection for 230v (1ph) Mains supply to the DC2 Controller

This connection should be fused at 13A (max)

230v Tube Motor Connection



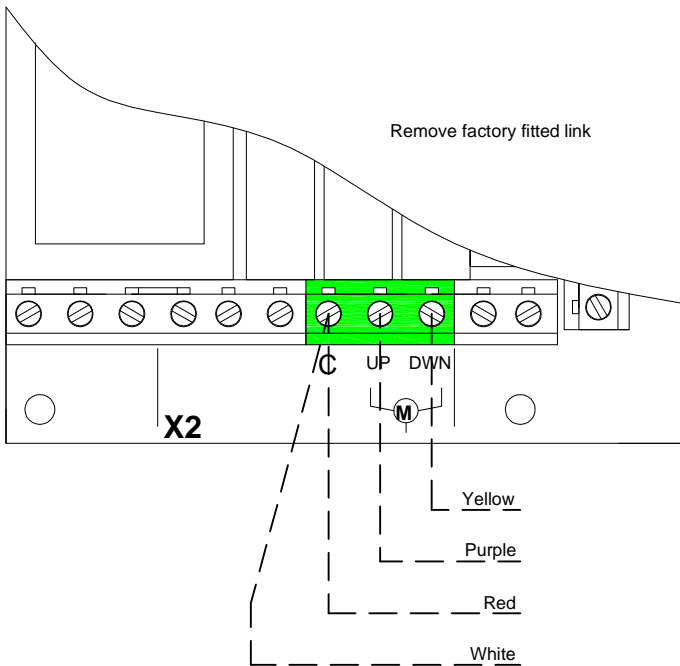
Connection to a typical 230v Tube Motor

PE = EARTH (Grn/Yel)
N = NEUTRAL (Blue)
UP = OPEN DIRECTION (Brown)
DWN = CLOSE DIRECTION (Black)

Use these terminals as a direct connection for a tube motor to the DC2 Controller

This unit still requires 230V mains power to operate

Volt free Connection for 'F' , 'W' and SD series operators



Connection

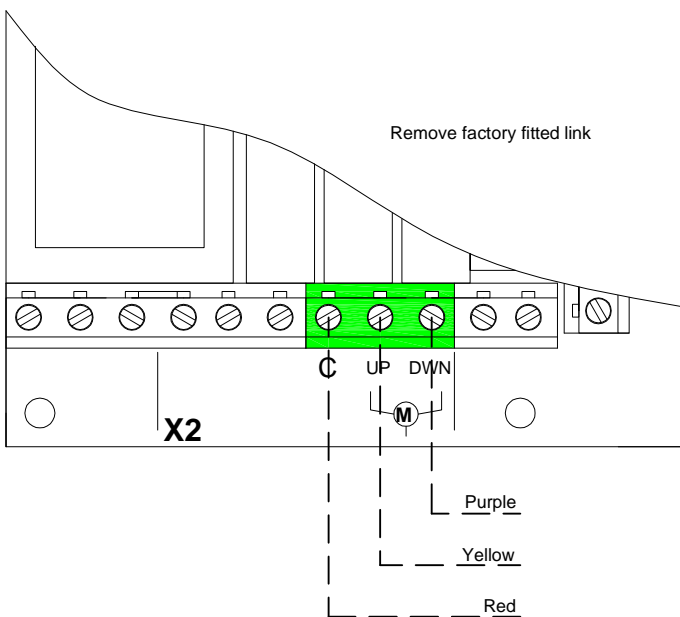
C = COMMON
 UP = OPEN DIRECTION
 DWN = CLOSE DIRECTION

Remove the existing push button station and use these terminals as a direct connection to control 'F', 'W' and 'SD' series operators

Jumper Links 'ODM' and 'CDM' must be removed from the operator PCB

****This unit still requires 230V mains power to operate****

Volt Free Connection for 'JM' series operators and other controls



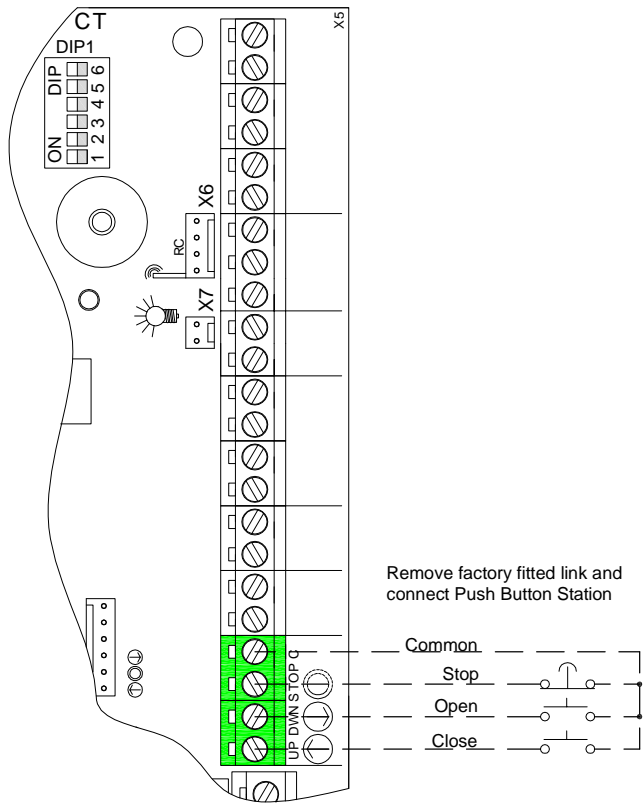
Volt Free Connection

C = COMMON
 UP = OPEN DIRECTION
 DWN = CLOSE DIRECTION

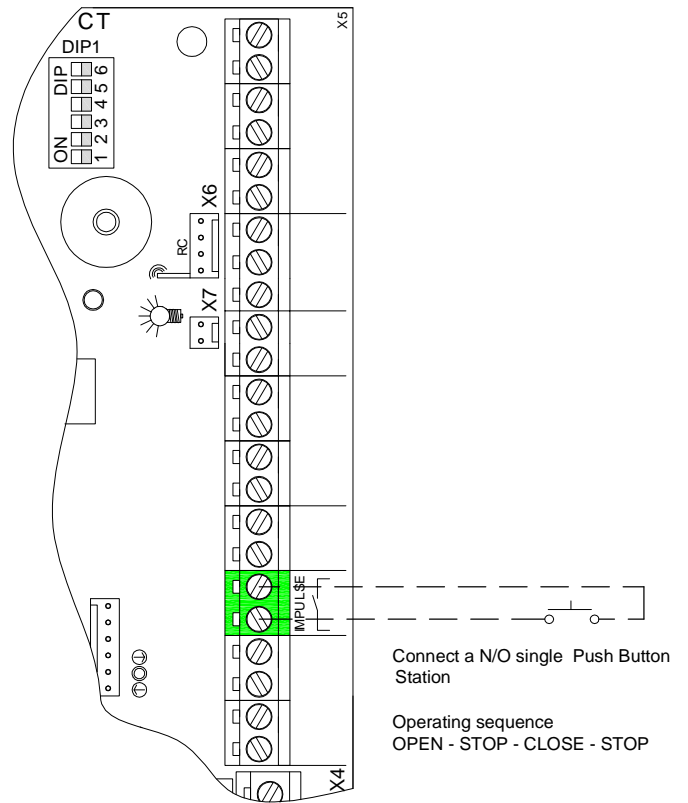
Remove the existing push button station and use these terminals as a direct connection to control 'JM' series operators or other controls

****This unit still requires 230V mains power to operate****

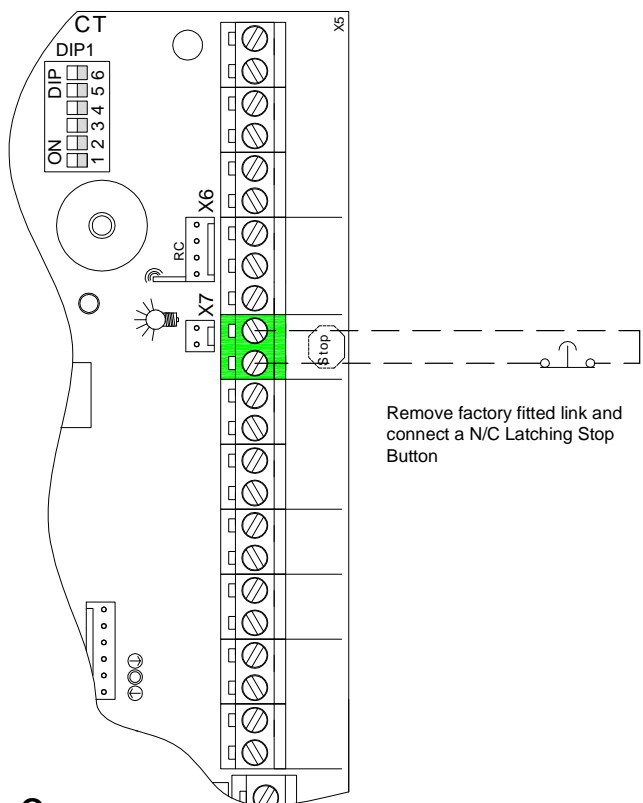
Remote Push Button Control
(If required)



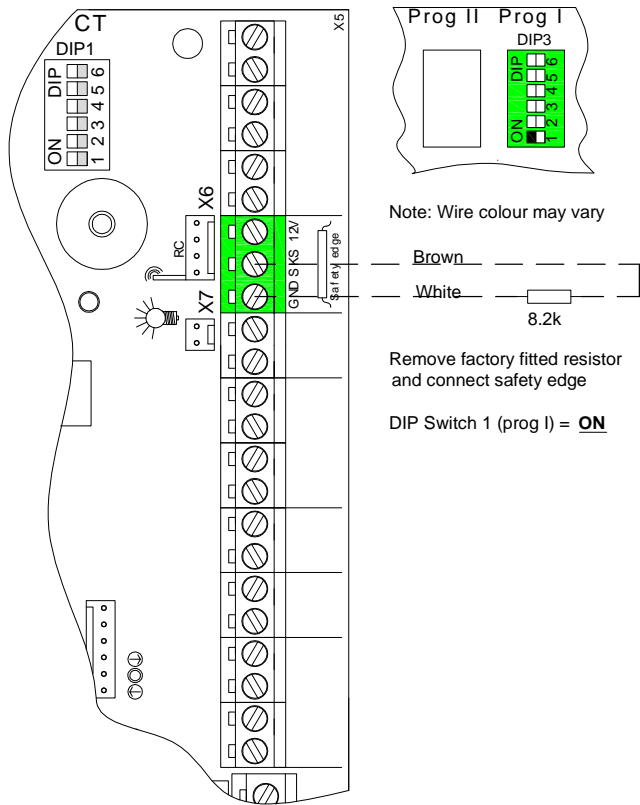
Remote Impulse Button
(If required)



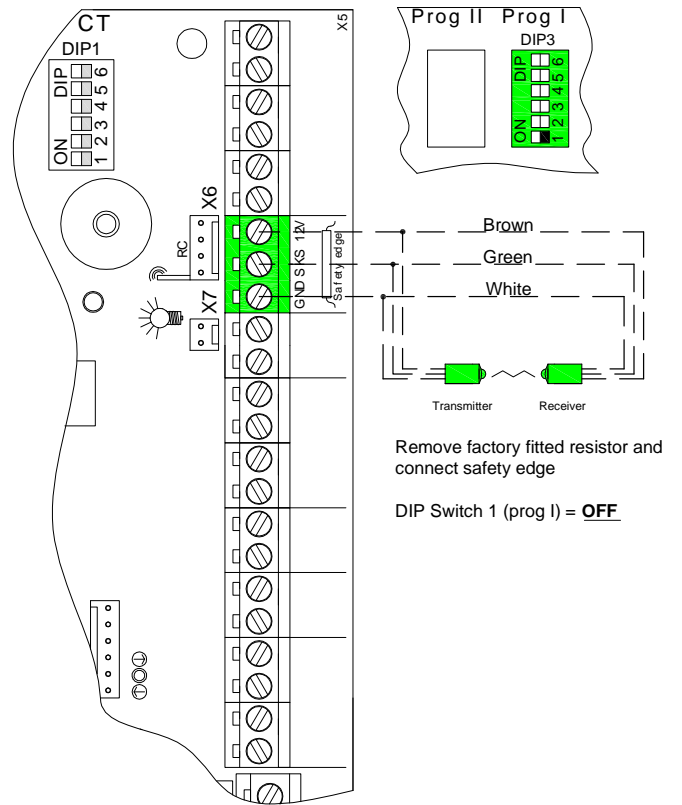
Emergency Stop Button
(If required)



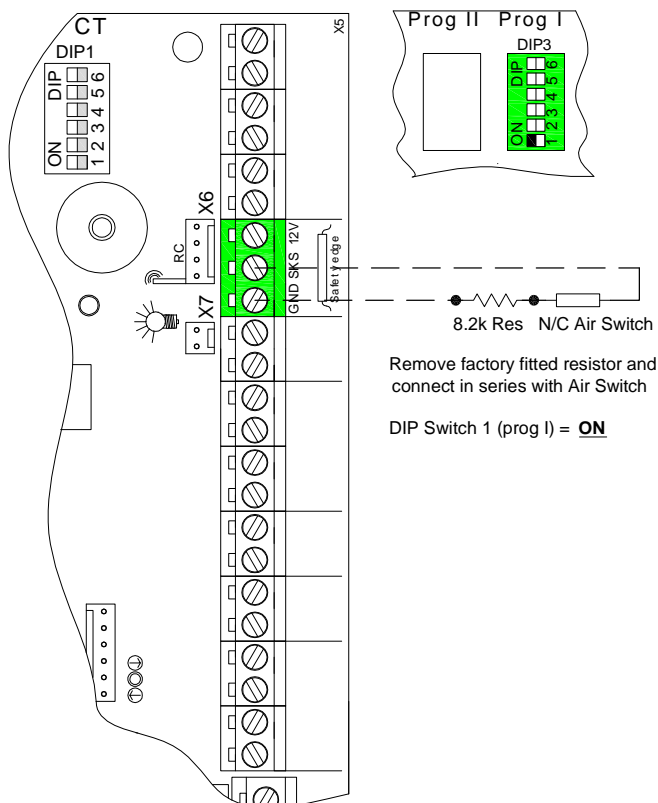
8.2k Resistive Safety Edge



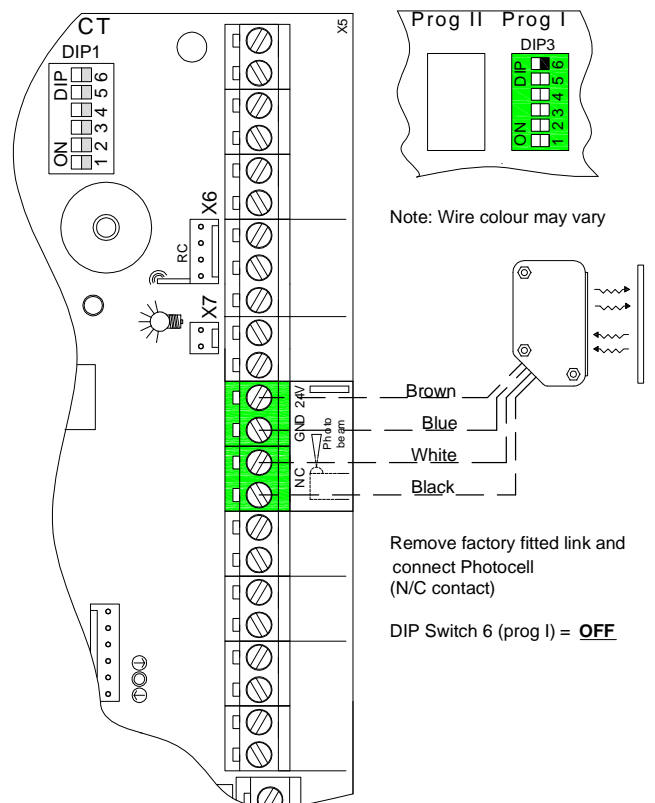
Optical Safety Edge



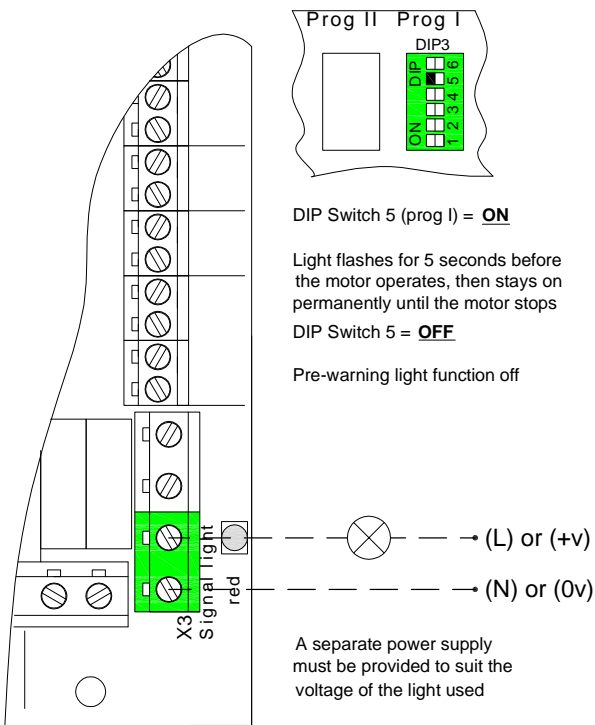
Pneumatic Safety Edge



Photocell (reflective)



Pre-warning Light



DIP Switch 5 (prog I) = **ON**

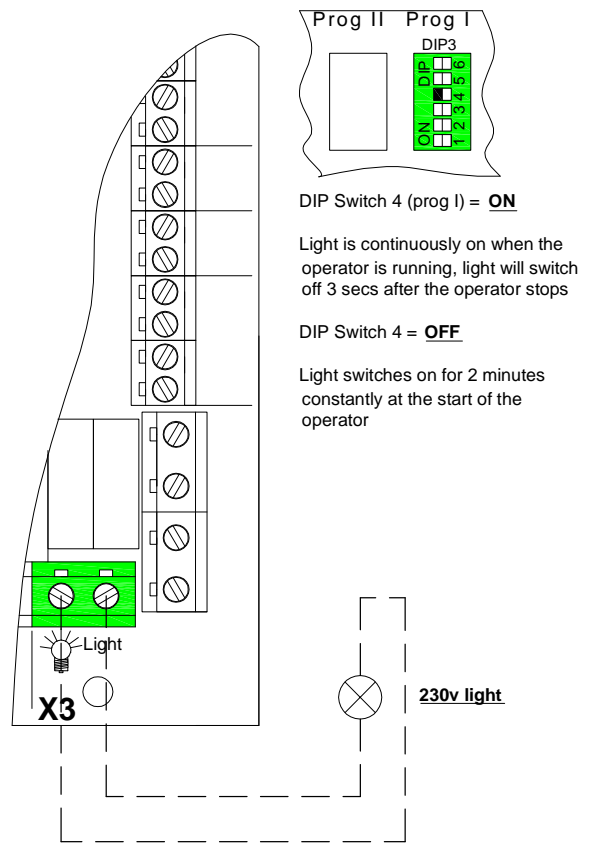
Light flashes for 5 seconds before the motor operates, then stays on permanently until the motor stops

DIP Switch 5 = **OFF**

Pre-warning light function off

A separate power supply must be provided to suit the voltage of the light used

230V Courtesy Light



DIP Switch 4 (prog I) = **ON**

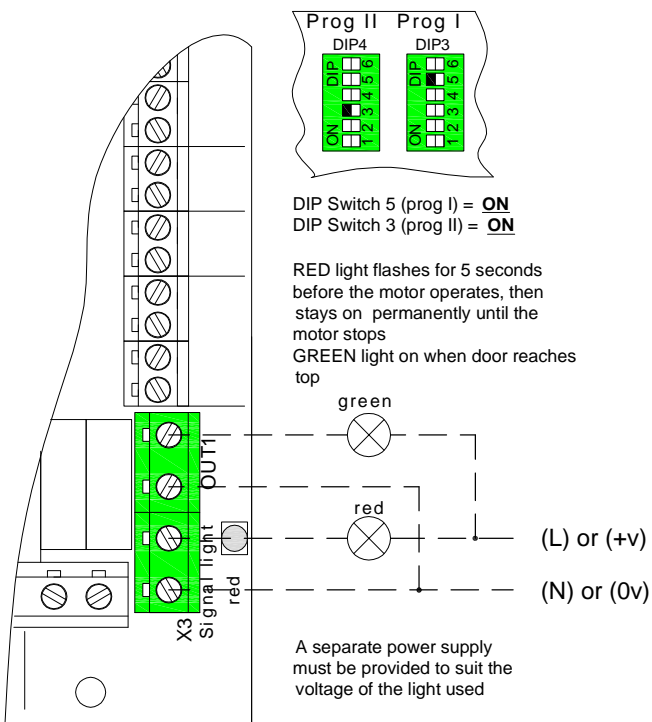
Light is continuously on when the operator is running, light will switch off 3 secs after the operator stops

DIP Switch 4 = **OFF**

Light switches on for 2 minutes constantly at the start of the operator

A separate power supply must be provided to suit the voltage of the light used

Red / Green Traffic Light



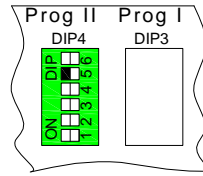
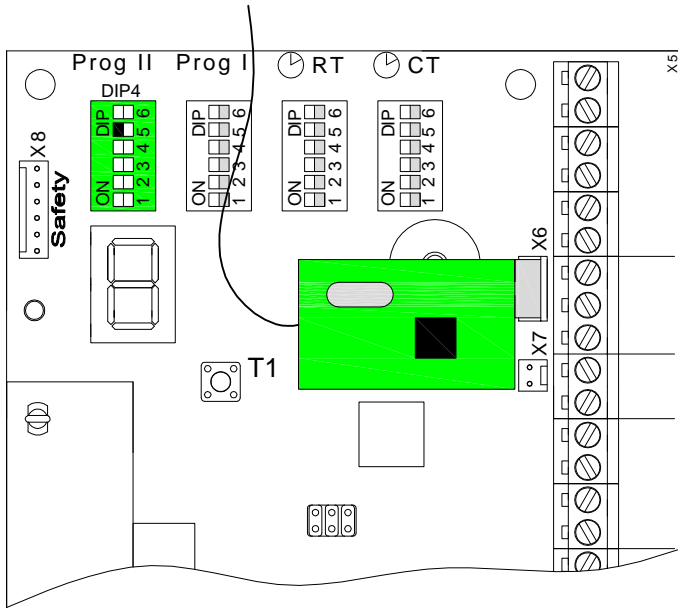
DIP Switch 5 (prog I) = **ON**

DIP Switch 3 (prog II) = **ON**

RED light flashes for 5 seconds before the motor operates, then stays on permanently until the motor stops
GREEN light on when door reaches top

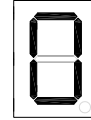
A separate power supply must be provided to suit the voltage of the light used

Radio Control (transmitter programming 20 max)



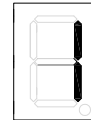
DIP Switch 5 (prog II) = **ON**

Plug in radio Receiver where shown
Turn DIP switch 5 to **ON**
The display now shows

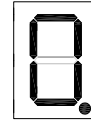


Press and hold the button on the transmitter for 2 second, the DC2 will beep once

The transmitter is stored and the display will advance by one digit this is the next location to be used Repeat for each transmitter to a maximum of 20 handsets

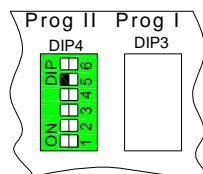
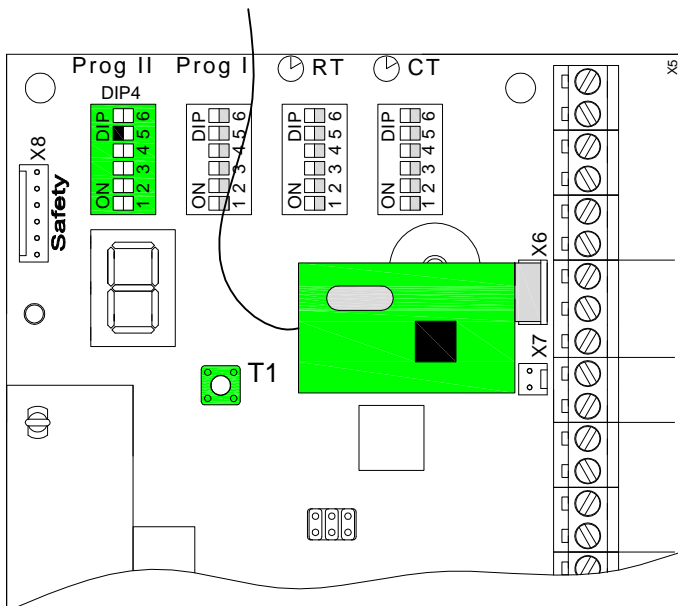


Number 10 transmitter location will be shown as thus



Once all transmitters have been entered DIP switch 5 must be switched off.

Radio Control (transmitter deleting)



DIP Switch 5 (prog II) = **ON**

Turn DIP switch 5 to **ON**
The display now shows the last location to be used e.g.. 7



Using the **programming button T1** on the DC2 controller, scroll through the display to the location to be deleted

Press and hold the **programming button T1** the DC2 will beep twice this location is now empty

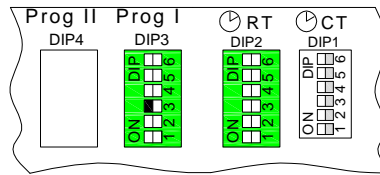
Repeat as necessary

Once transmitters have been deleted DIP switch 5 must be switched off.

Run Timer Settings

DIP switch 3 (prog I) = ON

Use DIP switch (RT) to select time



| | | | | | | | | | |
|-----|-----|---|---|---|---|---|---|--|--|
| OFF | ON | | | | | | | | |
| | OFF | 1 | 2 | 3 | 4 | 5 | 6 | | |
| 7" | ON | 1 | | | | | | | |
| | OFF | | 2 | 3 | 4 | 5 | 6 | | |
| 10" | ON | | 2 | | | | | | |
| | OFF | 1 | | 3 | 4 | 5 | 6 | | |
| 13" | ON | 1 | 2 | | | | | | |
| | OFF | | | 3 | 4 | 5 | 6 | | |
| 16" | ON | | | 3 | | | | | |
| | OFF | 1 | 2 | | 4 | 5 | 6 | | |
| 19" | ON | 1 | | 3 | | | | | |
| | OFF | | 2 | | 4 | 5 | 6 | | |
| 22" | ON | | 2 | 3 | | | | | |
| | OFF | 1 | | | 4 | 5 | 6 | | |
| 25" | ON | 1 | 2 | 3 | | | | | |
| | OFF | | | | 4 | 5 | 6 | | |
| 28" | ON | | | | 4 | | | | |
| | OFF | 1 | 2 | 3 | | 5 | 6 | | |
| 31" | ON | 1 | | | 4 | | | | |
| | OFF | | 2 | 3 | | 5 | 6 | | |
| 34" | ON | | 2 | | 4 | | | | |
| | OFF | 1 | | 3 | | 5 | 6 | | |
| 37" | ON | 1 | 2 | | 4 | | | | |
| | OFF | | | 3 | | 5 | 6 | | |
| 40" | ON | | | 3 | 4 | | | | |
| | OFF | 1 | 2 | | | 5 | 6 | | |
| 43" | ON | 1 | 2 | 3 | 4 | | | | |
| | OFF | | | 2 | | 5 | 6 | | |
| 46" | ON | | 2 | 3 | 4 | | | | |
| | OFF | 1 | | | | 5 | 6 | | |
| 49" | ON | 1 | 2 | 3 | 4 | | | | |
| | OFF | | | | | 5 | 6 | | |

| | | | | | | | | | |
|-----|-----|---|---|---|---|---|---|--|--|
| 52" | ON | | | | | 5 | | | |
| | OFF | 1 | 2 | 3 | 4 | | 6 | | |
| 55" | ON | 1 | | | | 5 | | | |
| | OFF | | 2 | 3 | 4 | | 6 | | |
| 58" | ON | | 2 | | | 5 | | | |
| | OFF | 1 | | 3 | 4 | | 6 | | |
| 61" | ON | 1 | 2 | | | 5 | | | |
| | OFF | | | 3 | 4 | | 6 | | |
| 64" | ON | | | 3 | | 5 | | | |
| | OFF | 1 | 2 | | 4 | | 6 | | |
| 67" | ON | 1 | | 3 | | 5 | | | |
| | OFF | | 2 | | 4 | | 6 | | |
| 70" | ON | | 2 | 3 | | 5 | | | |
| | OFF | 1 | | | 4 | | 6 | | |
| 73" | ON | 1 | 2 | 3 | | 5 | | | |
| | OFF | | | | 4 | | 6 | | |
| 76" | ON | | | | 4 | 5 | | | |
| | OFF | 1 | 2 | 3 | | | 6 | | |
| 79" | ON | 1 | 2 | | | 5 | | | |
| | OFF | | | 3 | 4 | | 6 | | |
| 82" | ON | | 2 | | 4 | 5 | | | |
| | OFF | 1 | | 3 | | | 6 | | |
| 85" | ON | | | | | | | | |
| | OFF | 1 | 2 | 3 | 4 | 5 | 6 | | |
| 88" | ON | 1 | 2 | | 4 | 5 | | | |
| | OFF | | | 3 | | | 6 | | |
| 91" | ON | | | 3 | 4 | 5 | | | |
| | OFF | 1 | 2 | | | | 6 | | |
| 94" | ON | | 2 | 3 | 4 | 5 | | | |
| | OFF | 1 | | | | | 6 | | |
| 97" | ON | 1 | 2 | 3 | 4 | 5 | | | |
| | OFF | | | | | | 6 | | |

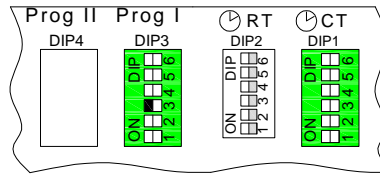
| | | | | | | | | | |
|------|-----|---|---|---|---|---|---|---|--|
| 100" | ON | | | | | | | 6 | |
| | OFF | 1 | 2 | 3 | 4 | 5 | | | |
| 103" | ON | 1 | | | | | | 6 | |
| | OFF | | 2 | 3 | 4 | 5 | | | |
| 106" | ON | | 2 | | | | | 6 | |
| | OFF | 1 | | 3 | 4 | 5 | | | |
| 109" | ON | 1 | 2 | | | | | 6 | |
| | OFF | | | 3 | 4 | 5 | | | |
| 112" | ON | | | 3 | | | | 6 | |
| | OFF | 1 | 2 | | 4 | 5 | 6 | | |
| 115" | ON | 1 | | 3 | | | | 6 | |
| | OFF | | 2 | | 4 | 5 | | | |
| 118" | ON | | 2 | 3 | | | | 6 | |
| | OFF | 1 | | | 4 | 5 | | | |
| 121" | ON | 1 | 2 | 3 | | | | 6 | |
| | OFF | | | | 4 | 5 | 6 | | |
| 124" | ON | | | | 4 | | | 6 | |
| | OFF | 1 | 2 | 3 | | 5 | | | |
| 127" | ON | 1 | | | 4 | | | 6 | |
| | OFF | | 2 | 3 | | 5 | | | |
| 130" | ON | | 2 | | 4 | | | 6 | |
| | OFF | 1 | | 3 | | 5 | | | |
| 133" | ON | 1 | 2 | | 4 | | | 6 | |
| | OFF | | | 3 | | 5 | | | |
| 136" | ON | | | 3 | 4 | | | 6 | |
| | OFF | 1 | 2 | 3 | | 5 | 6 | | |
| 139" | ON | 1 | | 3 | 4 | | | 6 | |
| | OFF | | 2 | | | 5 | | | |
| 142" | ON | | 2 | 3 | 4 | | | 6 | |
| | OFF | 1 | | | | 5 | | | |
| 145" | ON | 1 | 2 | 3 | 4 | | | 6 | |
| | OFF | | | | | 5 | | | |

| | | | | | | | | | |
|------|-----|---|---|---|---|---|---|--|--|
| 148" | ON | | | | | 5 | 6 | | |
| | OFF | 1 | 2 | 3 | 4 | | | | |
| 151" | ON | 1 | | | | 5 | 6 | | |
| | OFF | | 2 | 3 | 4 | | | | |
| 154" | ON | | 2 | | | 5 | 6 | | |
| | OFF | 1 | | 3 | 4 | | | | |
| 157" | ON | 1 | 2 | | | 5 | 6 | | |
| | OFF | | | 3 | 4 | | | | |
| 160" | ON | | | 3 | | 5 | 6 | | |
| | OFF | 1 | 2 | | 4 | | | | |
| 163" | ON | 1 | | 3 | | 5 | 6 | | |
| | OFF | | 2 | | 4 | | | | |
| 166" | ON | | 2 | 3 | | 5 | 6 | | |
| | OFF | 1 | | | 4 | | | | |
| 169" | ON | 1 | 2 | 3 | | 5 | 6 | | |
| | OFF | | | | 4 | | | | |
| 172" | ON | | | | 4 | 5 | 6 | | |
| | OFF | 1 | 2 | 3 | | | | | |
| 175" | ON | 1 | | | 4 | 5 | 6 | | |
| | OFF | | 2 | 3 | | | | | |
| 178" | ON | | 2 | | 4 | 5 | 6 | | |
| | OFF | 1 | | 3 | | | | | |
| 181" | ON | 1 | 2 | | 4 | 5 | 6 | | |
| | OFF | | | 3 | | | | | |
| 184" | ON | | | 3 | 4 | 5 | 6 | | |
| | OFF | 1 | 2 | | | | | | |
| 187" | ON | | 2 | 3 | 4 | 5 | 6 | | |
| | OFF | 1 | | | | | | | |
| 190" | ON | 1 | | 3 | 4 | 5 | 6 | | |
| | OFF | | 2 | | | | | | |
| 193" | ON | 1 | 2 | 3 | 4 | 5 | 6 | | |
| | OFF | | | | | | | | |

Run Timer Settings

DIP switch 3 (prog I) = ON

Use DIP switch (CT) to select time

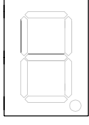
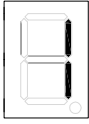





| | | | | | | | | | |
|-----|-----|---|---|---|---|---|---|--|--|
| OFF | ON | | | | | | | | |
| | OFF | 1 | 2 | 3 | 4 | 5 | 6 | | |
| 5" | ON | 1 | | | | | | | |
| | OFF | | 2 | 3 | 4 | 5 | 6 | | |
| 7" | ON | | 2 | | | | | | |
| | OFF | 1 | | 3 | 4 | 5 | 6 | | |
| 9" | ON | 1 | 2 | | | | | | |
| | OFF | | | 3 | 4 | 5 | 6 | | |
| 11" | ON | | | 3 | | | | | |
| | OFF | 1 | 2 | | 4 | 5 | 6 | | |
| 13" | ON | 1 | | 3 | | | | | |
| | OFF | | 2 | | 4 | 5 | 6 | | |
| 15" | ON | | 2 | 3 | | | | | |
| | OFF | 1 | | | 4 | 5 | 6 | | |
| 17" | ON | 1 | 2 | 3 | | | | | |
| | OFF | | | | 4 | 5 | 6 | | |
| 19" | ON | | | | 4 | | | | |
| | OFF | 1 | 2 | 3 | | 5 | 6 | | |
| 21" | ON | 1 | | | 4 | | | | |
| | OFF | | 2 | 3 | | 5 | 6 | | |
| 23" | ON | | 2 | | 4 | | | | |
| | OFF | 1 | | 3 | | 5 | 6 | | |
| 25" | ON | 1 | 2 | | 4 | | | | |
| | OFF | | | 3 | | 5 | 6 | | |
| 27" | ON | | | 3 | 4 | | | | |
| | OFF | 1 | 2 | | | 5 | 6 | | |
| 29" | ON | 1 | | 3 | 4 | | | | |
| | OFF | | 2 | | | 5 | 6 | | |
| 31" | ON | | 2 | 3 | 4 | | | | |
| | OFF | 1 | | | | 5 | 6 | | |
| 33" | ON | 1 | 2 | 3 | 4 | | | | |
| | OFF | | | | | 5 | 6 | | |

| | | | | | | | | | |
|-----|-----|---|---|---|---|---|---|--|--|
| 35" | ON | | | | | 5 | | | |
| | OFF | 1 | 2 | 3 | 4 | | 6 | | |
| 37" | ON | 1 | | | | 5 | | | |
| | OFF | | 2 | 3 | 4 | | 6 | | |
| 39" | ON | | 2 | | | 5 | | | |
| | OFF | 1 | | 3 | 4 | | 6 | | |
| 41" | ON | 1 | 2 | | | 5 | | | |
| | OFF | | | 3 | 4 | | 6 | | |
| 43" | ON | | | 3 | | 5 | | | |
| | OFF | 1 | 2 | | 4 | | 6 | | |
| 45" | ON | 1 | | 3 | | 5 | | | |
| | OFF | | 2 | | 4 | | 6 | | |
| 47" | ON | | 2 | 3 | | 5 | | | |
| | OFF | 1 | | | 4 | | 6 | | |
| 49" | ON | 1 | 2 | 3 | | 5 | | | |
| | OFF | | | 4 | | | 6 | | |
| 51" | ON | | | | 4 | 5 | | | |
| | OFF | 1 | 2 | 3 | | | 6 | | |
| 53" | ON | 1 | 2 | | | 5 | | | |
| | OFF | | | 3 | 4 | | 6 | | |
| 55" | ON | | 2 | | 4 | 5 | | | |
| | OFF | 1 | | 3 | | | 6 | | |
| 57" | ON | 1 | 2 | | 4 | 5 | | | |
| | OFF | | | 3 | | | 6 | | |
| 59" | ON | | | 3 | 4 | 5 | | | |
| | OFF | 1 | 2 | | | | 6 | | |
| 61" | ON | 1 | | 3 | 4 | 5 | | | |
| | OFF | | 2 | | | | 6 | | |
| 63" | ON | | 2 | 3 | 4 | 5 | | | |
| | OFF | 1 | | | | | 6 | | |
| 65" | ON | 1 | 2 | 3 | 4 | 5 | | | |
| | OFF | | | | | | 6 | | |

| | | | | | | | | | |
|-----|-----|---|---|---|---|---|---|---|--|
| 67" | ON | | | | | | | 6 | |
| | OFF | 1 | 2 | 3 | 4 | 5 | | | |
| 69" | ON | 1 | | | | | | 6 | |
| | OFF | | 2 | 3 | 4 | 5 | | | |
| 71" | ON | | 2 | | | | | 6 | |
| | OFF | 1 | | 3 | 4 | 5 | | | |
| 73" | ON | 1 | 2 | | | | | 6 | |
| | OFF | | | 3 | 4 | 5 | | | |
| 75" | ON | | | 3 | | | | 6 | |
| | OFF | 1 | 2 | | 4 | 5 | 6 | | |
| 77" | ON | 1 | | 3 | | | | 6 | |
| | OFF | | 2 | | 4 | 5 | | | |
| 79" | ON | | 2 | 3 | | | | 6 | |
| | OFF | 1 | | | 4 | 5 | | | |
| 81" | ON | 1 | 2 | 3 | | | | 6 | |
| | OFF | | | | 4 | 5 | 6 | | |
| 83" | ON | | | | 4 | | | 6 | |
| | OFF | 1 | 2 | 3 | | 5 | | | |
| 85" | ON | 1 | | | 4 | | | 6 | |
| | OFF | | 2 | 3 | | 5 | | | |

Trouble shooting - Common Faults

| Display | Fault | Check |
|------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------------------------|
|  | Blank -No Power | Mains Fuse |
| | | PCB Fuse |
| | | Mains Power Supply |
|  | Emergency Stop Activated | Factory Fitted Link |
| | | Release E-Stop Button |
| | | |
|  | Safety Edge Activated | DIP Switch Position |
| | | Factory Fitted Resistor |
| | | Wiring or Loose Connections |
| | | Repalce sensors |
|  | Photocell Activated or open circuit | DIP Switch Position |
| | | Photocell alignment |
| | | Wiring or Loose Connections |
| | | Repalce photocell |
|  | Power Supply | Mains supply connected in wrong terminals (<i>and</i>) |
| | | Mains voltage is inconsistant and has risen above 245v |

| | | |
|-------|------------------------------------------------|----------------------------------|
| Other | Radio Control opens door but will not close | DIP Switch Position |
| | | Photocell faulty or miss aligned |
| | | Wiring or Loose Connections |
| | | Faulty Safety Edge |

Technical data

| | |
|-------------------|-----------------------------------------------|
| Model | DC 2 - EURO delux |
| Supply Voltagel | 230VAC |
| Frequency | 50Hz |
| Protection class | IP54 |
| Outputs motor | 3x NO relay contact 230V / 5A |
| | 2x NO relay contact 230V / 2A |
| | 1x unregulated supply voltage 24V DC max 50mA |
| Wiring size (max) | 1.5mm ² max |
| Operature temp | -10°C to +55°C |



THE HOME OF AUTOMATION

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