

PRODUCT INSTRUCTIONS



FCP - Lite

Floats Road, Wythenshawe
Manchester, M23 9WB
Tel: +44 (0)161 945 4561
Fax: +44 (0)161 945 5666

Stock Code:
015288

Doc No
Iss:

PI - 15288
1.0



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2) Features and Specification

Control System for Roller Shutters and Smoke curtains

Features

- Large visual warning 'FIRE SHUTTER CLOSING' and 90 dB sounder
- Asymmetrical box for top or bottom cable entry
- Operation by either on membrane buttons or External push button / key-switch connection
- Operation by "Impulse Open / Close for use with safety devices or "Impulse" Open / "Dead-man Close if no safety devices are present
- "Dead-man" Open / Close feature to assist motor limit set up
- Low Voltage control circuit
- Easy to program using DIP switches
- Motor Run Timer up to 196 sec's for extra motor protection
- Automatic closing facility with Delay Time up to 196 sec's
- Keypad Input option (09066)
- Status relay for door running
- Radio control option (Receiver 15281) (transmitter: 1ch - 15282, 2ch - 15285, or 4 ch - 15286)
- Door closing under Mains Power in the event of a fire
- Audio/Visual Warning activation for up to 252 sec's
- Panic Button option for emergency escape
- Choice of fire signal activation either by Normally Open (N/O) or Normally Closed (N/C) contact
- Fire Alarm Confirmation Relay
- Internal status and fault code display
- Conforms to EN 12453

Power Supply Requirements

A 230v AC 50Hz Mains power supply must be provided for the unit to operate

This can be supplied by:

- A direct connection to a 13A fused spur (or)
- A suitable sized Battery Back Up Unit sized correctly for the Tube motor to give a emergency supply

A total loss of 230v mains power will prevent any motor operation, even in the event of a fire

Normal Operating Conditions

Opening and closing the shutter on a normal day to day operation will be carried out either by:

- An external Key-Switch or Push Button station if mounted at High Level
- The membrane push buttons fixed to the lid if mounted at low level and local to the shutter
- Shutter control in either Impulse Open/ Close or Impulse Open/Dead-man Close modes

Fire Condition

By activation of a connected "normally open" (N/O) or "normally closed" N/C volt free fire signal, the panel

will begin an audio/visual warning

This warning will continue for a pre-set delay time (up to 252 sec's) during in which time no motor action will take place

Upon expiry of the warning, the shutter will begin to drive down and stop at the bottom position

All safety devices will be disabled

At the closed position the audio/ visual warning will stop

The shutter will remain closed all the time the fire alarm signal is present and cannot be re-opened by any normal controls e.g Key-Switch, Pushbutton station except by the panic button facility (if fitted)

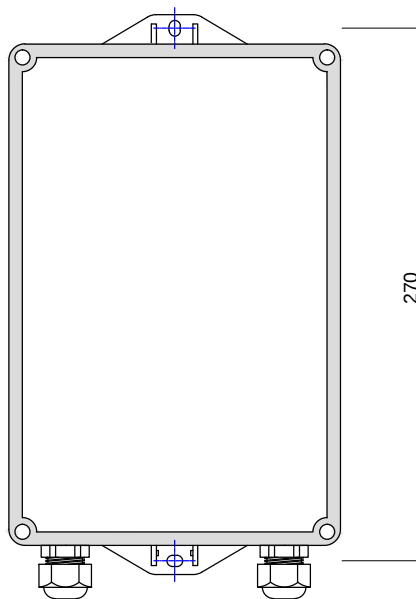
Power Supply	230v - 50Hz	Transmitter Qty	20
Max Motor Load	5A @ 230v, 1150 Watts	Transmitter Frequency	433.92MHz
Max Accessories Load	50mA @ 24v d.c	No of possible Keypad codes (4 or 5 digit)	10
Working Temp	-10 to +55°C	Dimensions (mm)	250 (l) x 164 (w) x 112 (h)
IP	54	Weight (Kg)	1.1 (Approx)

3) Installation

- The enclosure should be mounted vertically and secured using the provided fixing holes (see fig 3.1)
- Consideration must be given to the incoming cables and the panel rotated accordingly to give top or bottom entry (see fig 3.2)
- To protect both motor and personnel, this product must be connected to a suitable EARTH point
- All electrical work should be undertaken by a suitable competent person

Mounting

Mount the unit using the fixing holes provided (Fig 3.1)



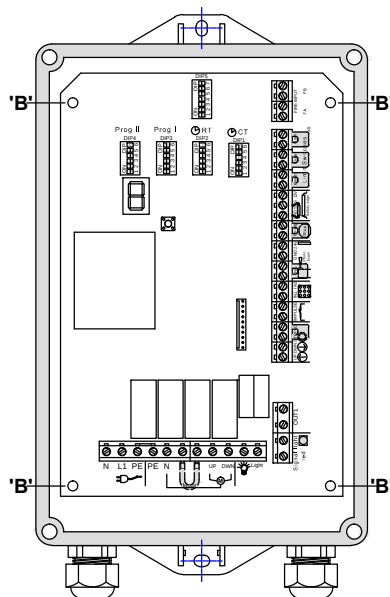
Lid Removal

To Remove Lid remove Fixing screws 'A' (Fig 3.2)

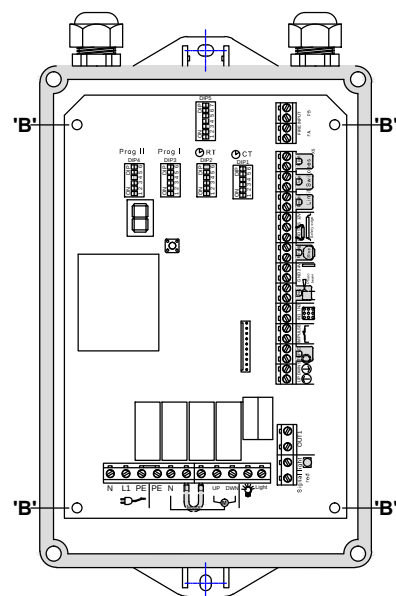


Cable Entry

The "FCP Lite" is designed so the cable entry can be positioned at the top or bottom of the panel by means of removing the PCB fixing screws, then rotating either board or box 180° and refitting (Fig 3.3)

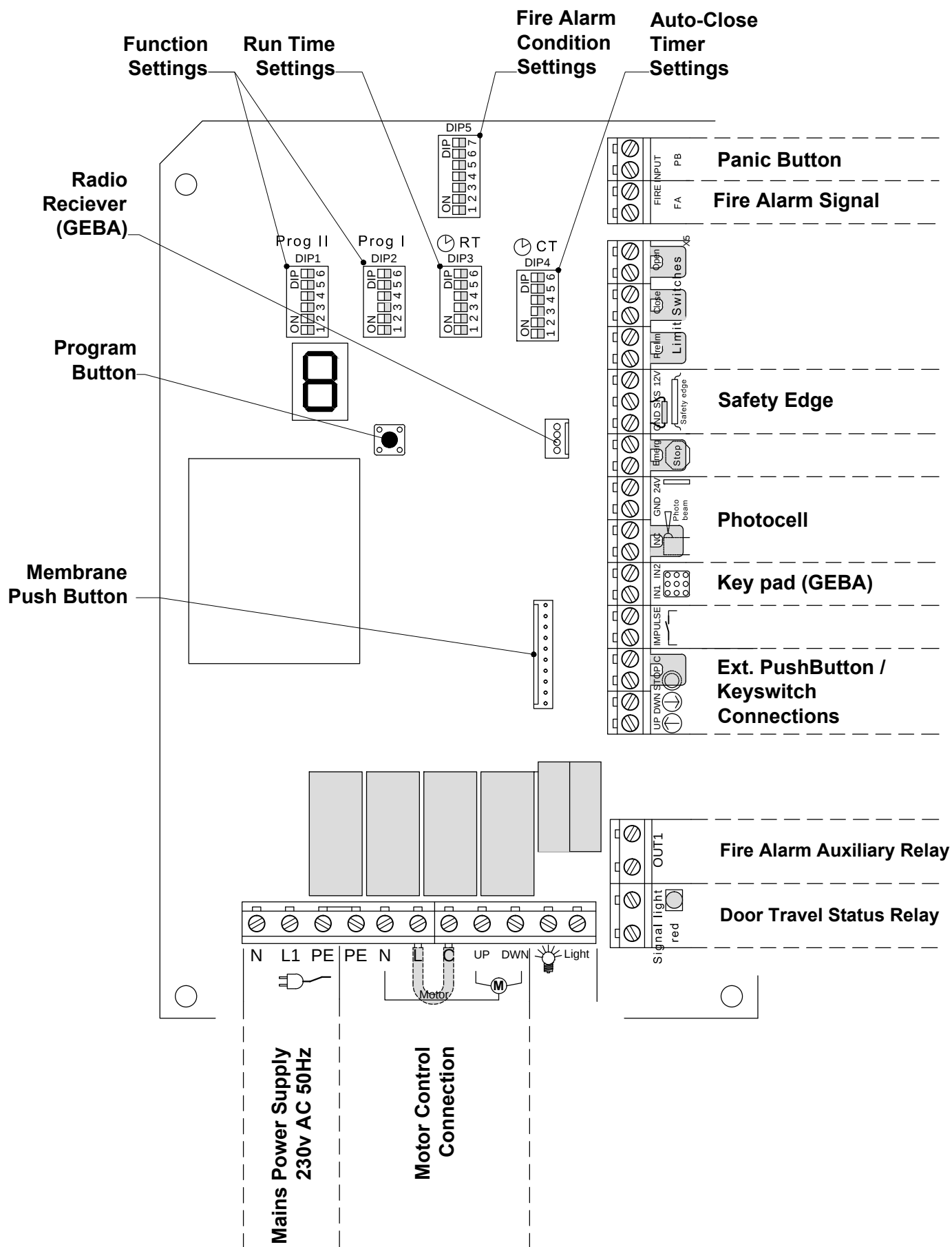


BOTTOM CABLE ENTRY



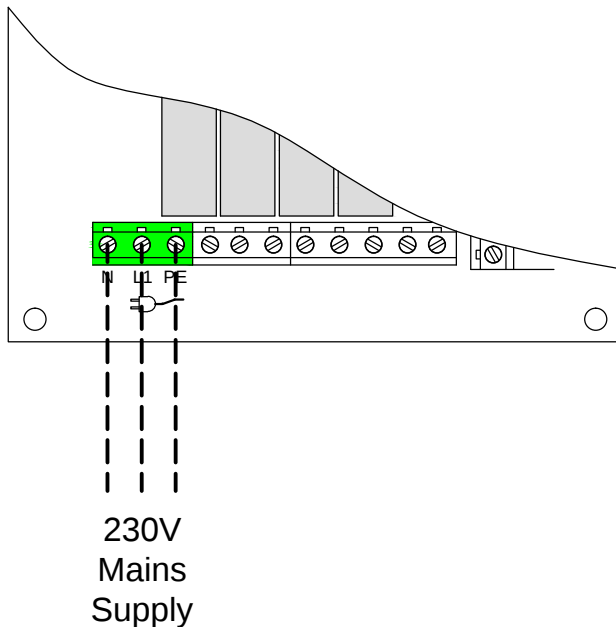
TOP CABLE ENTRY

4) General Board Layout



5) Connections

5.1) 230 Volt Mains Power



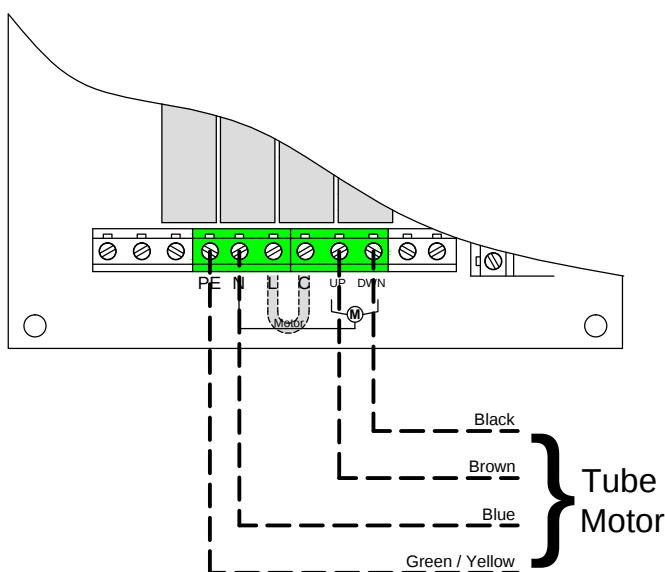
Mains Power Connection

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

Use these terminals as a direct connection for 230v (1ph) Mains power supply to the **'FCP Lite'** Controller

This connection should be connected to a fused spur or outlets rated at 13A (max)

5.2) 230v Tube Motor Connection



Connection to a typical 230v Tube Motor

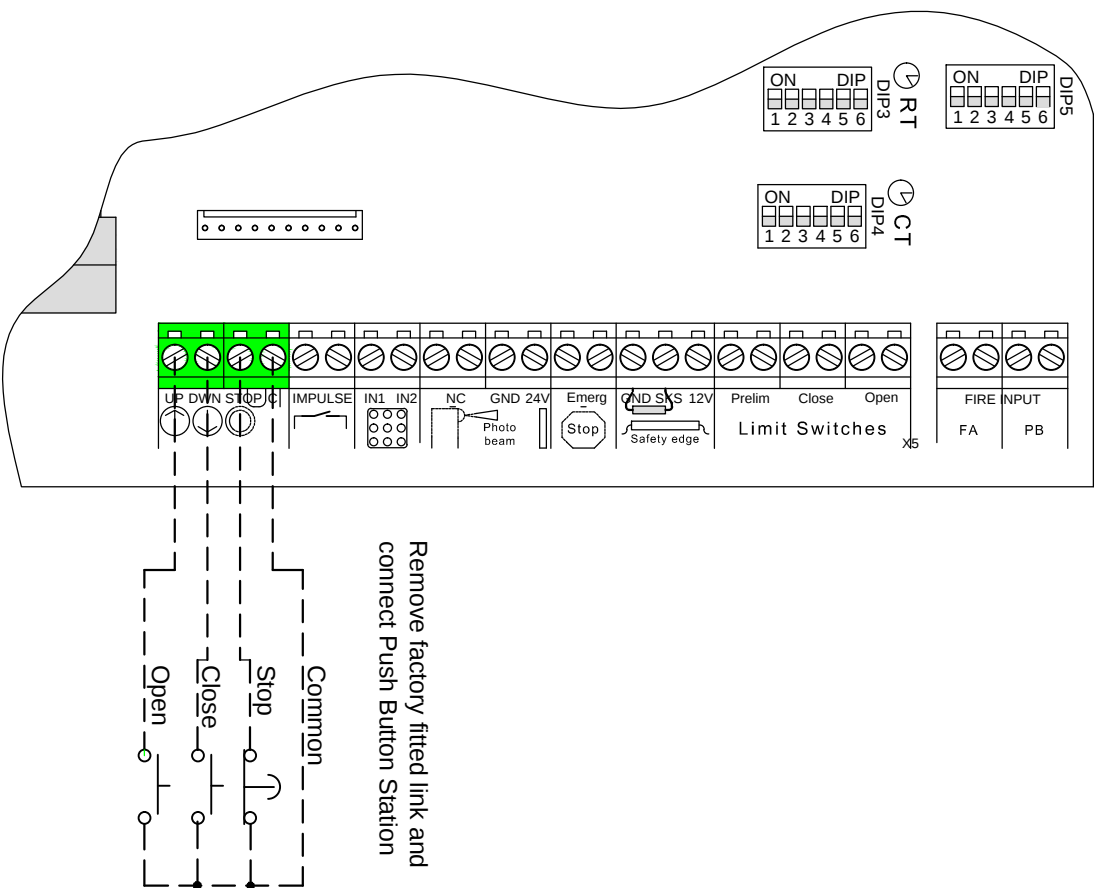
PE = EARTH (Grn/Yel)
N = NEUTRAL (Blue)
UP = OPEN DIRECTION (Brown)
DWN = CLOSE DIRECTION (Black)

Use these terminals as a direct connection for a tube motor to the **'FCP Lite'** Controller

Note:

The voltage feed link between "L" and "C" must remain fitted

5.3) Ext. Push Button Control (Optional)



Push Button Notes

Normal Operation

1. An external connected "Push Button Station" will fully control the operation of the shutter OPEN, STOP, CLOSE
2. It will remain "continually" active during normal operation

Fire Condition Operation

1. On receipt of a fire signal, the "Push Button Station" is "disabled" and the shutter will continue to run to the fully closed position
2. There will be no function from "any button pressed" this includes the STOP button
3. The "Push Button Station" will remain inactive until the Fire Signal is removed or reset

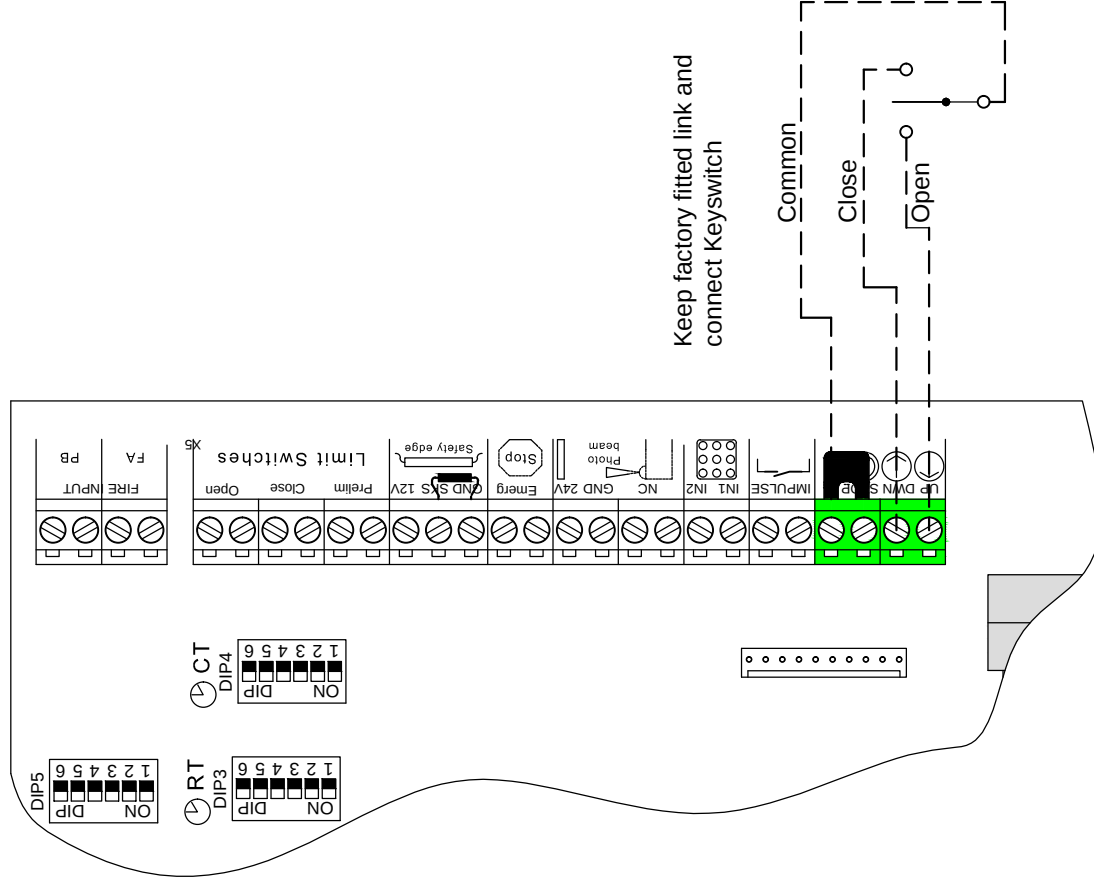
Key-Switch Notes

Normal Operation

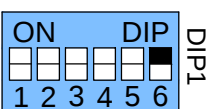
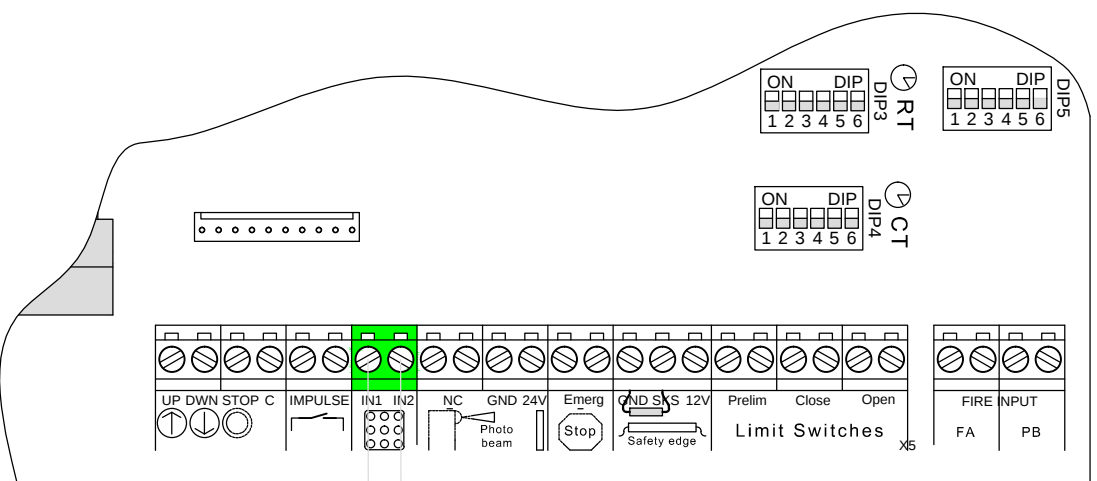
1. **An external connected "Key-Switch" will fully control the operation of the shutter OPEN, and CLOSE**
2. **It will remain "continually" active during normal operation**

Fire Condition Operation

1. *On receipt of a fire signal, the "Key-Switch" is "disabled" and the shutter will continue to run to the fully closed position*
2. *There will be no function in any direction selected by the "Key-Switch"*
3. *The "Key-Switch" will remain inactive until the Fire Signal is removed or reset*



5.5) Keypad (optional)



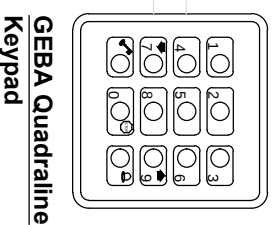
To Program

Turn DIP 1 (switch 6) = ON, display will show available memory location, e.g. 0

Enter chosen code (4 or 5 digit) and press once, unit will emit 2 beeps

The entered code will briefly show in the display then return to the next memory location

Turn DIP 1 (switch 6) = OFF, when complete



Keypad - Notes

Normal Operation

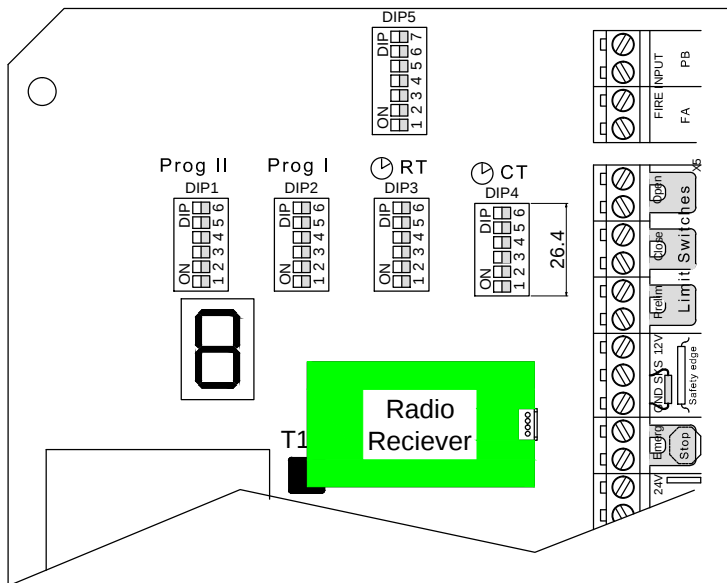
1. Upon entering a chosen code, the "Keypad" will OPEN, STOP or CLOSE a door
2. To operate enter code then press the "key" button (This will keep the "Keypad" active for 20 seconds)
3. Press either to OPEN, to CLOSE, or to STOP

Fire Condition Operation

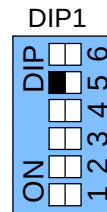
1. On receipt of a fire signal, the "Keypad" is "disabled" and the shutter will continue to run to the fully closed position
2. There will be no function in any direction selected by the keypad
3. The "Keypad" will remain inactive until the Fire Signal is removed or reset

5.6) Radio Control operation (optional)

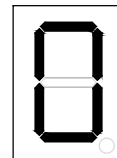
Transmitter programming



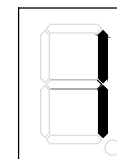
Radio Control is only available if all safety devices are connected



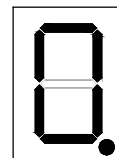
Plug in the "Radio Receiver" where shown
Turn DIP 1 (Switch 5) to **ON**
The display now shows



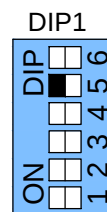
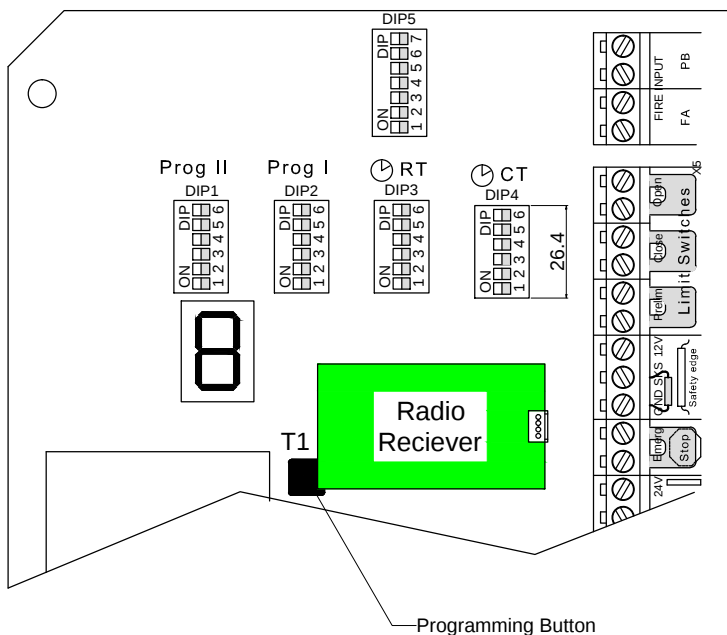
Press and hold the button on the "Transmitter" for 2 second, the DC2 will bleep once
The "Transmitter" is stored and the display will advance by one digit this is the next location to be used
Repeat for each "Transmitter" to a maximum of 20 handsets



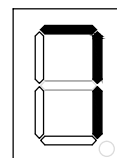
Note:
Number 10 transmitter location will be shown as thus
Once all "Transmitters" have been entered DIP switch 5 must be switched off



Transmitter deleting



Turn DIP1 (switch 5) to **ON**
The display now shows the last location to be used e.g.. 7

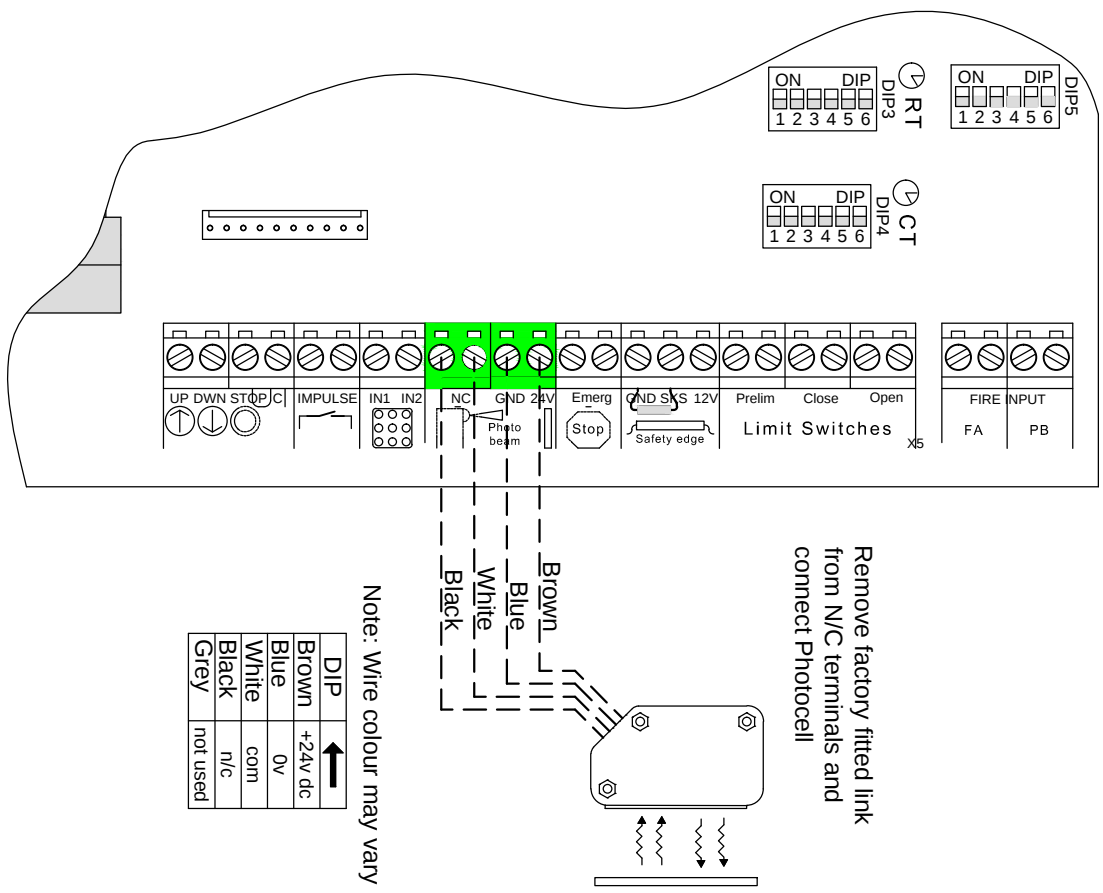


Using the **programming button T1** on the DC2 controller, scroll through the display to the location to be deleted

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

Repeat as necessary

5.7) Photocell Connection (Optional)



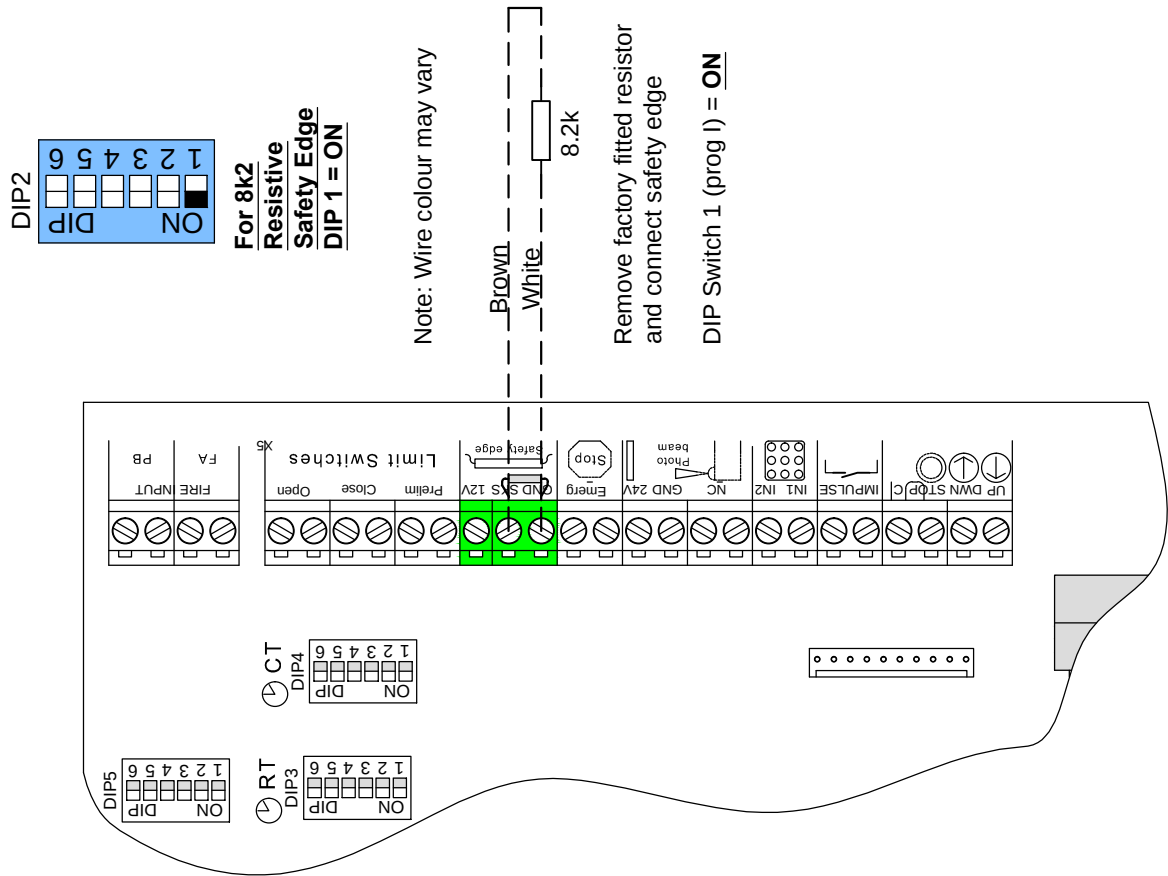
Photocell Notes

Normal Operation

1. The "Photocell" will stop and re-open a closing door
2. It will remain active for the length of the "Run Time" set by (DIP 3), It is recommended the "Run Time" is set 3 sec's longer than the actual Door Travel
3. Fire Condition Operation

1. On receipt of a fire signal, the "Photocell" is "disabled" and the shutter will continue to run to the fully closed position
2. The "Photocell" will remain inactive until the Fire Signal is removed or reset
- 3.

5.8) 8k2 Resistive Safety Edge Connection
(Optional)



8k2 Resistive Safety Edge Notes

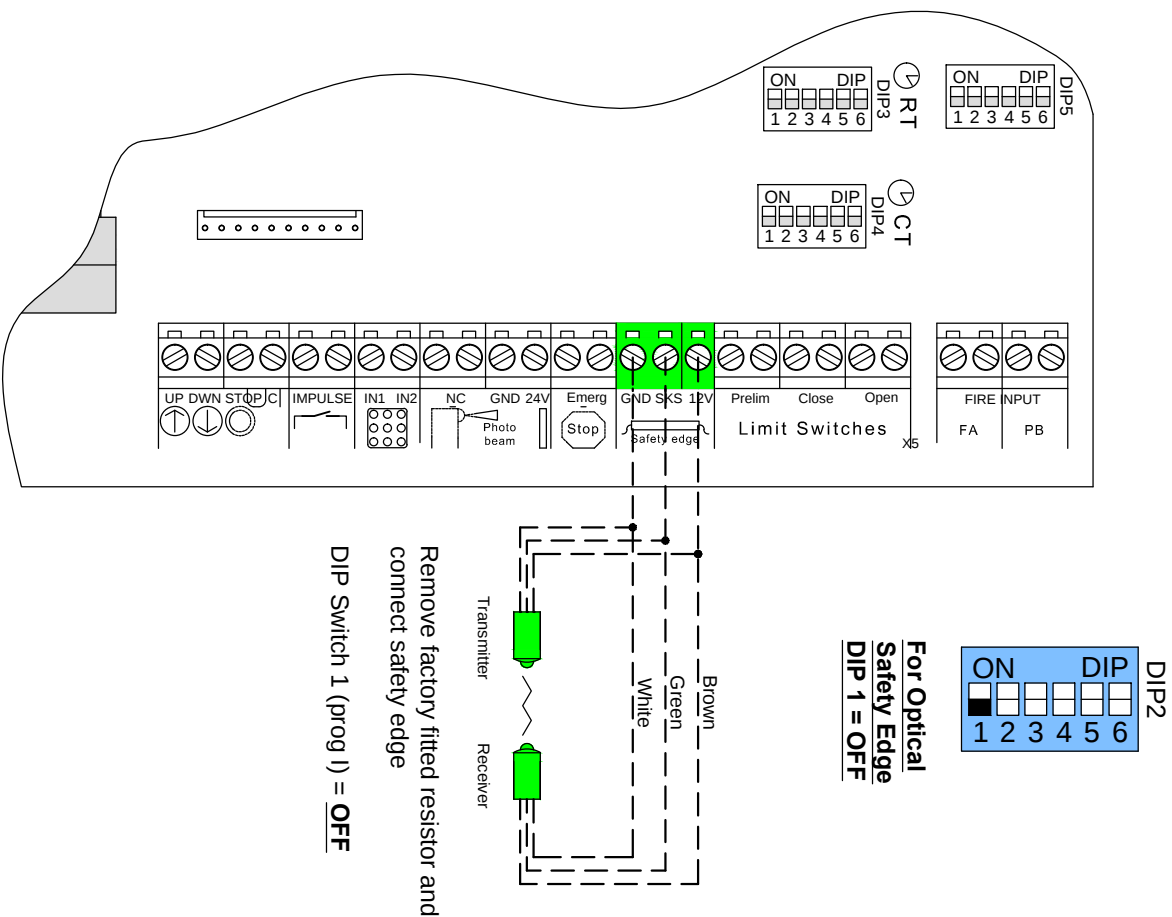
Normal Operation

1. The "8k2 Resistive Safety Edge" will stop and re-open a closing door
2. Should the Auto-close delay timer be set the door will then re-close
3. If the obstruction is detected 3 consecutive times before the close position is reached - then on the next detection the door will re-open a short distance and stop, the obstacle must then be removed before any further operation

Fire Condition Operation

1. On receipt of a fire signal, the "8k2 Resistive Safety Edge" is "disabled" and the shutter will continue to run to the fully closed position
2. The "8k2 Resistive Safety Edge" will remain inactive until the Fire Signal is removed or reset

5.9) Optical Safety Edge Connection (Optional)



Optical Safety Edge Notes

Normal Operation

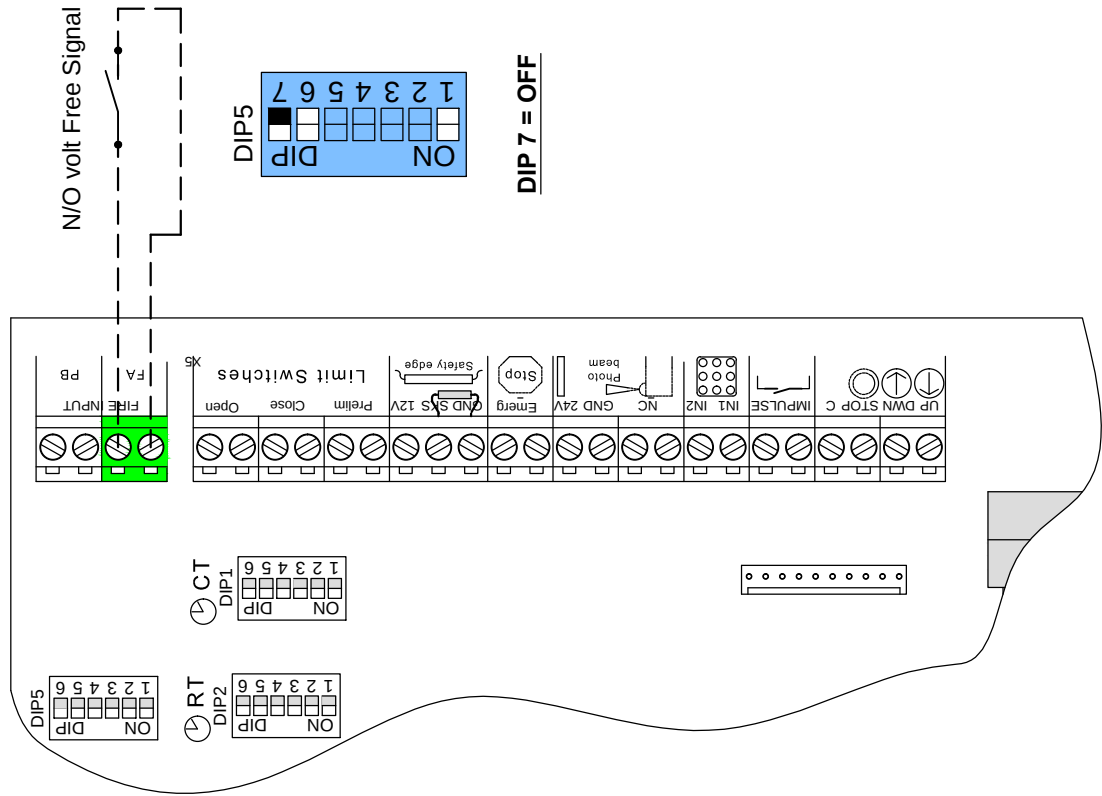
1. The "Optical Safety Edge" will stop and re-open a closing door
2. Should the Auto-close delay timer be set the door will then re-close
3. If the obstruction is detected 3 consecutive times before before the close position is reached - then on the next detection the door will re-open a short distance and stop, the obstacle must then be removed before any further operation

Fire Condition Operation

1. On receipt of a fire signal, the "Optical Safety Edge" is "disabled" and the shutter will continue to run to the fully closed position
2. The "Optical Safety Edge" will remain inactive until the Fire Signal is removed or reset

5.10) Fire Signal connection

Normally Open (N/O) Volt Free signal

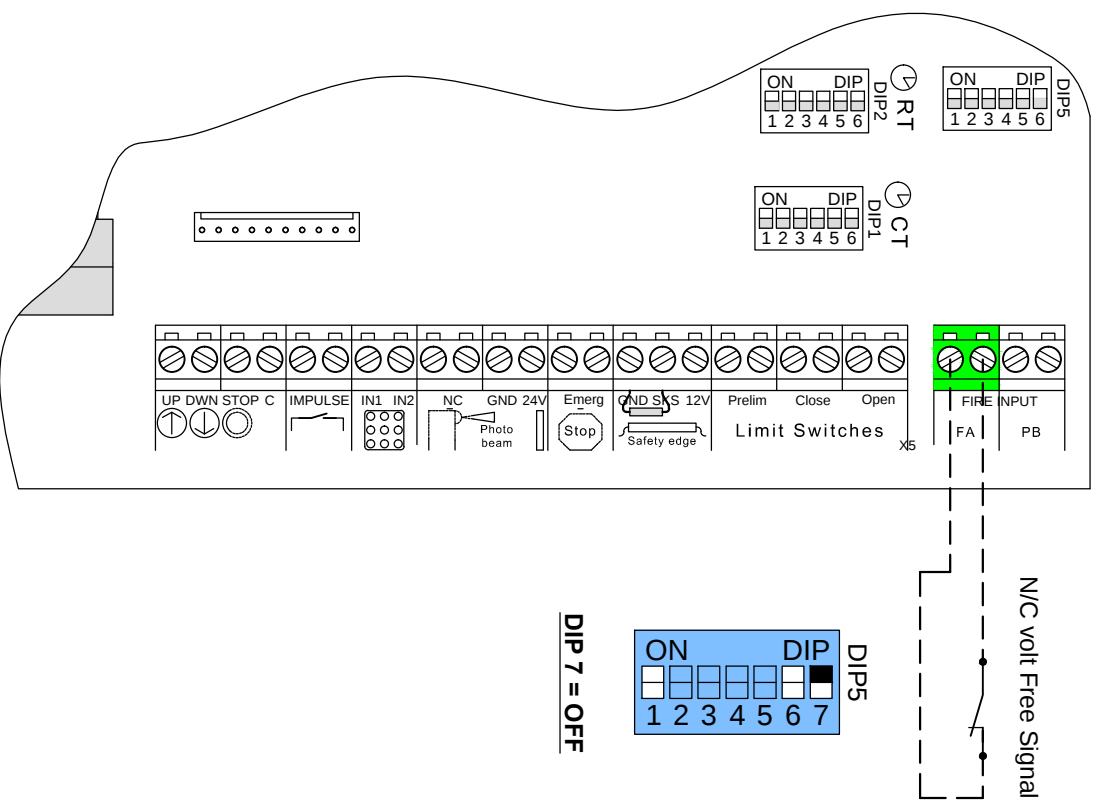


N/O (normally open) Volt Free Fire Signal - Notes

Fire Condition Operation

1. This signal is selected by DIP5 (7 = OFF)
2. On receipt of a fire signal, all directional controls and the photocell is "disabled"
3. The panel will be flashing and emit an audible tone
4. This Audio visual warning will continue for the time set by DIP5 (switches 1 - 6)
5. When this time has elapsed the shutter will begin to close and will continue to drive to the fully close position or as far as practical (should an obstruction be present), there will be no means of interruption providing the mains power supply remains

5.11) Fire Signal connection Normally Closed (N/C) Volt Free signal

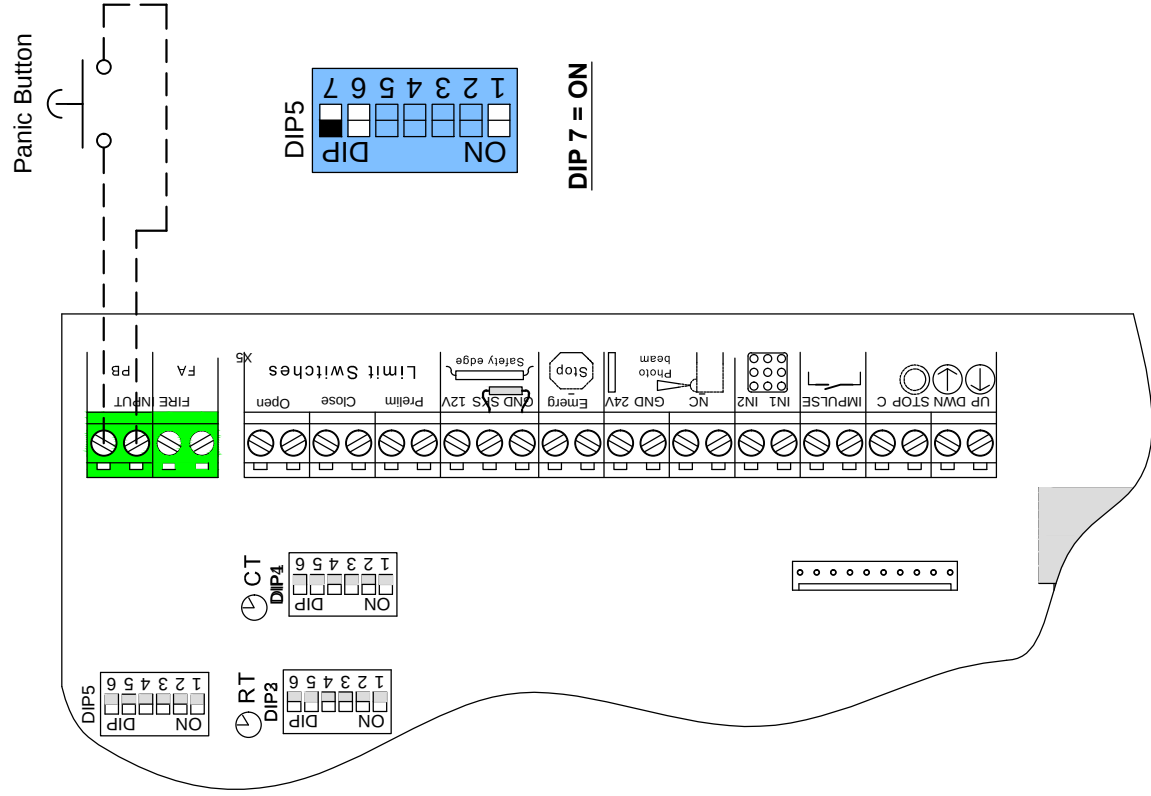


N/C (normally closed) Volt Free Fire Signal - Notes

Fire Condition Operation

1. This signal is selected by DIP5 (7 = OFF)
2. On receipt of a fire signal, all directional controls and the photocell is "disabled"
3. The panel will be flashing and emit an audible tone
4. This Audio visual warning will continue for the time set by DIP5 (switches 1 - 6)
5. When this time has elapsed the shutter will begin to close and will continue to drive to the fully close position or as far as practical (should an obstruction be present), there will be no means of interruption providing the mains power supply remains

5.12) Panic Button Connection (optional)



Panic Button Notes

Normal Operation

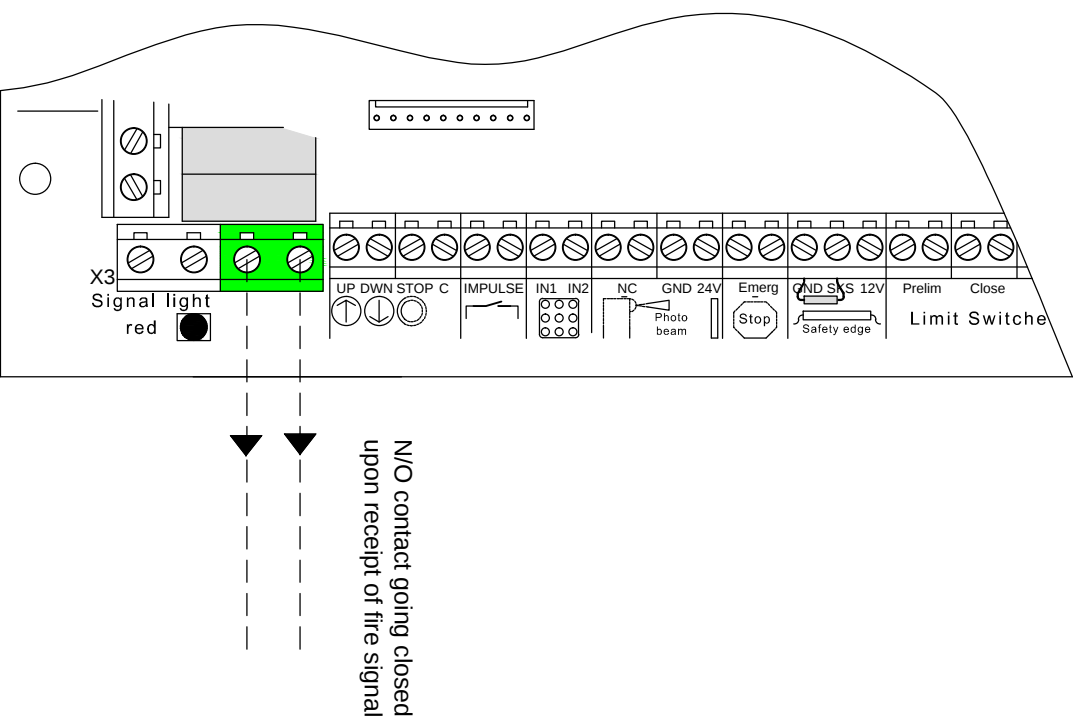
1. The "Panic Button" is "disabled" during Normal Operation and will not function

Fire Condition Operation

1. The "Panic Button" will only become operational in a fire condition
2. On receipt of a fire signal the shutter will drive to the fully closed position and the "Run Time" set by DIP 3 (Switches 1 - 6) must be expired
3. Upon pressing the Panic Button the shutter will re-open to the fully open and the "Run Time" set by DIP 3 (Switches 1 - 6) must be expired
4. The shutter will pause for 5 seconds, then re-close

Once the fire alarm signal is reset the "Panic Button" will no longer function

5.13) Fire Alarm Auxiliary Relay Connection (optional)



Fire Alarm Auxiliary Relay" Notes

Normal Operation

1. The "Fire Alarm Auxiliary Relay" is "disabled" during Normal Operation and will not operate

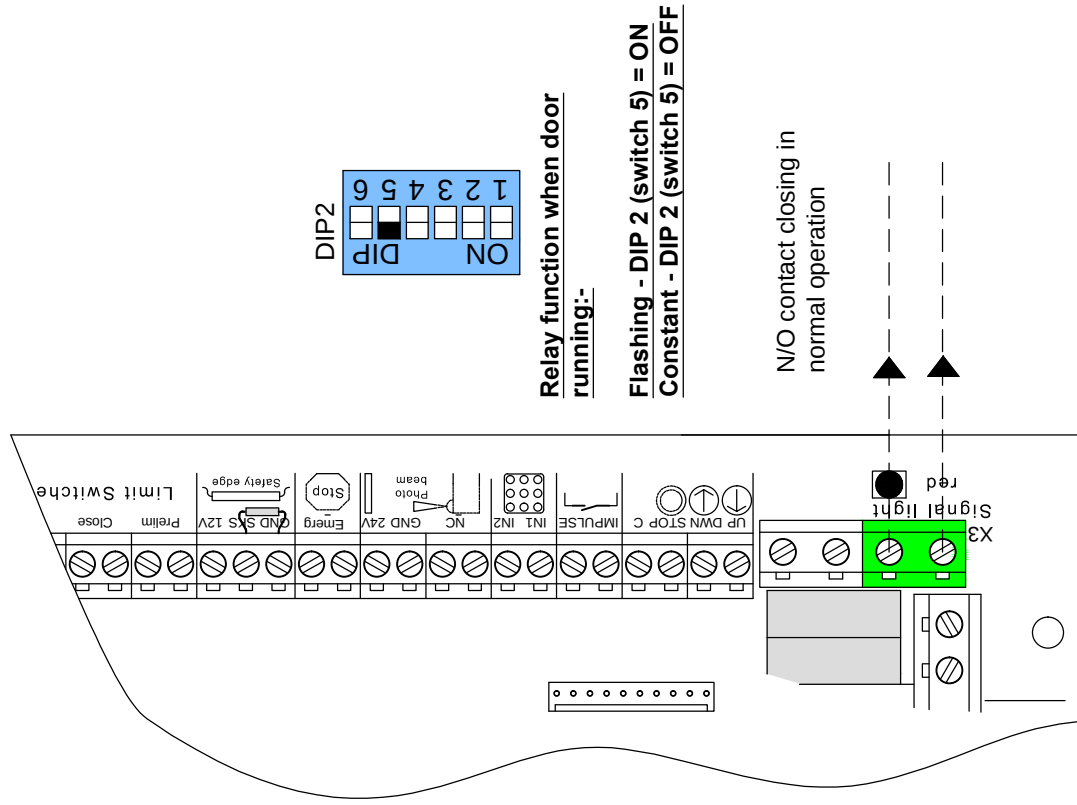
Fire Condition Operation

1. The "Fire Alarm Auxiliary Relay" will only become operational in a fire condition
2. Immediately upon receipt of a fire signal the relay will switch N/C

This signal can be used to:

1. Trigger a second Panel etc
2. Provide an activation status
3. Switch on a device

5.14) Door Travel Status Relay connection (optional)



Door Travel Status Relay Notes

Normal Operation

1. The "Door Travel Status Relay" is "active" during Normal Operation and will only operate when the door is running

Fire Condition Operation

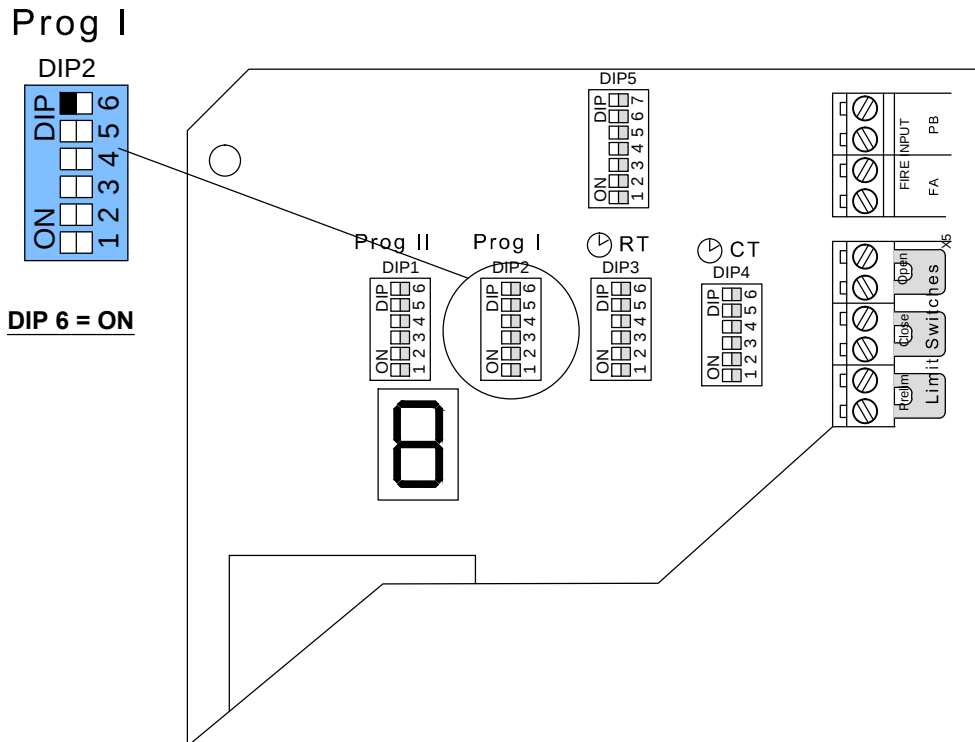
1. The "Door Travel Status Relay" will be disabled in a fire condition

This signal can be used to:

1. Activate a external sounder or Beacon to indicate the door is traveling
2. Trigger a second Panel etc
3. Switch on a device

6) Operation

6.1) Motor Set Up feature



Motor Limit Set Up

By selecting DIP 2 (switch 6 = ON) this sets the panel in Dead-man OPEN / CLOSE operation to give a more accurate control when setting the open and close travel positions for the motor

Please note:

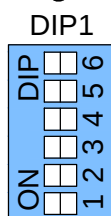
Once the Travel Limits have been correctly set, switch 6 must be turned back off, it must not be left on for normal operation

Set (DIP Switch 3) RT - "RUN TIMER" to correspond with door travel (see table for times)

7) DIP Switch Functions

7.1) General functions

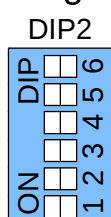
Prog II



DIP	←		→
1	ON	Selects safety edge type	OFF
2	ON	Not used - keep in OFF position	OFF
3	ON	Not used - keep in OFF position	OFF
4	ON	Not used - keep in OFF position	OFF
5	ON	Radio Transmitter Programming	OFF
6	ON	Keypad Programming	OFF

Only use switches highlighted

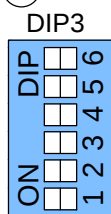
Prog I



DIP	←		→
1	ON	8k2 Safety Edge Optical safety Edge	OFF
2	ON	Not used - keep in OFF position	OFF
3	ON	Extended Run Time Scale (For UK)	OFF
4	ON	Not used - keep in OFF position	OFF
5	ON	Constant Flashing	OFF
6	ON	Deadman operation for Motor Set Up	OFF

Only use switches highlighted

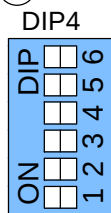
RT



DIP	←		→
1	ON	Door Run Time (see Table "RT")	OFF
2	ON		OFF
3	ON		OFF
4	ON		OFF
5	ON		OFF
6	ON		OFF

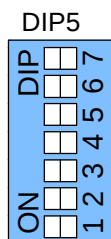
Select as per table

CT



DIP	←		→
1	ON	Door Auto-Close Delay Time (see Table "CT")	OFF
2	ON		OFF
3	ON		OFF
4	ON		OFF
5	ON		OFF
6	ON		OFF

Select as per table
Only to be used
if 2 safety devices
are
fitted

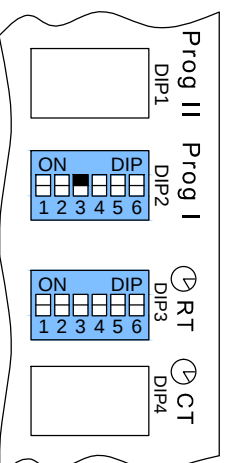


DIP	←		→
1	ON	Fire Alarm Delay Time (see Table)	OFF
2	ON		OFF
3	ON		OFF
4	ON		OFF
5	ON		OFF
6	ON		OFF
7	ON	N/O Fire Signal N/C Fire Signal	OFF

Select as per table

7.2) Motor Run Timer

The run time must be set slightly longer than the door travel



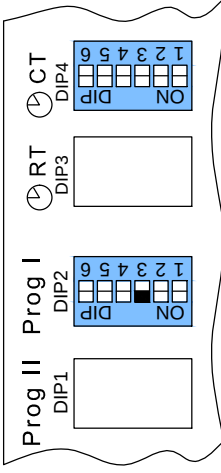
To set:

DIP2 (switch 3 = ON)
Use DIP3 "RT" (switch's 1 - 6) to select time

OFF	ON	OFF	1	2	3	4	5	6
7"	ON	OFF	1	2	3	4	5	6
10"	ON	OFF	1	2	3	4	5	6
13"	ON	OFF	1	2	3	4	5	6
16"	ON	OFF	1	2	3	4	5	6
19"	ON	OFF	1	2	3	4	5	6
22"	ON	OFF	1	2	3	4	5	6
25"	ON	OFF	1	2	3	4	5	6
28"	ON	OFF	1	2	3	4	5	6
31"	ON	OFF	1	2	3	4	5	6
34"	ON	OFF	1	2	3	4	5	6
37"	ON	OFF	1	2	3	4	5	6
40"	ON	OFF	1	2	3	4	5	6
43"	ON	OFF	1	2	3	4	5	6
46"	ON	OFF	1	2	3	4	5	6
49"	ON	OFF	1	2	3	4	5	6
52"	ON	OFF	1	2	3	4	5	6
55"	ON	OFF	1	2	3	4	5	6
58"	ON	OFF	1	2	3	4	5	6
61"	ON	OFF	1	2	3	4	5	6
64"	ON	OFF	1	2	3	4	5	6
67"	ON	OFF	1	2	3	4	5	6
70"	ON	OFF	1	2	3	4	5	6
73"	ON	OFF	1	2	3	4	5	6
76"	ON	OFF	1	2	3	4	5	6
79"	ON	OFF	1	2	3	4	5	6
82"	ON	OFF	1	2	3	4	5	6
85"	ON	OFF	1	2	3	4	5	6
88"	ON	OFF	1	2	3	4	5	6
91"	ON	OFF	1	2	3	4	5	6
94"	ON	OFF	1	2	3	4	5	6
97"	ON	OFF	1	2	3	4	5	6
100"	ON	OFF	1	2	3	4	5	6
103"	ON	OFF	1	2	3	4	5	6
106"	ON	OFF	1	2	3	4	5	6
109"	ON	OFF	1	2	3	4	5	6
112"	ON	OFF	1	2	3	4	5	6
115"	ON	OFF	1	2	3	4	5	6
118"	ON	OFF	1	2	3	4	5	6
121"	ON	OFF	1	2	3	4	5	6
124"	ON	OFF	1	2	3	4	5	6
127"	ON	OFF	1	2	3	4	5	6
130"	ON	OFF	1	2	3	4	5	6
133"	ON	OFF	1	2	3	4	5	6
136"	ON	OFF	1	2	3	4	5	6
139"	ON	OFF	1	2	3	4	5	6
142"	ON	OFF	1	2	3	4	5	6
145"	ON	OFF	1	2	3	4	5	6
148"	ON	OFF	1	2	3	4	5	6
151"	ON	OFF	1	2	3	4	5	6
154"	ON	OFF	1	2	3	4	5	6
157"	ON	OFF	1	2	3	4	5	6
160"	ON	OFF	1	2	3	4	5	6
163"	ON	OFF	1	2	3	4	5	6
166"	ON	OFF	1	2	3	4	5	6
169"	ON	OFF	1	2	3	4	5	6
172"	ON	OFF	1	2	3	4	5	6
175"	ON	OFF	1	2	3	4	5	6
178"	ON	OFF	1	2	3	4	5	6
181"	ON	OFF	1	2	3	4	5	6
184"	ON	OFF	1	2	3	4	5	6
190"	ON	OFF	1	2	3	4	5	6
193"	ON	OFF	1	2	3	4	5	6
196"	ON	OFF	1	2	3	4	5	6

7.3) Auto - Close Delay Timer

This feature must only be used if "2 forms" of safety devices are fitted

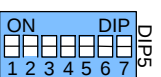


To set:

DIP2 (switch 3 = ON)
Use DIP4 "CT" (switch's 1 - 6) to select time

OFF	ON OFF	1	2	3	4	5	6	52"	ON OFF	1	2	3	4	5	6	100"	ON OFF	1	2	3	4	5	6	148"	ON OFF	1	2	3	4	5	6
7"	ON OFF	1	2	3	4	5	6	55"	ON OFF	1	2	3	4	5	6	103"	ON OFF	1	2	3	4	5	6	151"	ON OFF	1	2	3	4	5	6
10"	ON OFF	1	2	3	4	5	6	58"	ON OFF	1	2	3	4	5	6	106"	ON OFF	1	2	3	4	5	6	154"	ON OFF	1	2	3	4	5	6
13"	ON OFF	1	2	3	4	5	6	61"	ON OFF	1	2	3	4	5	6	109"	ON OFF	1	2	3	4	5	6	157"	ON OFF	1	2	3	4	5	6
16"	ON OFF	1	2	3	4	5	6	64"	ON OFF	1	2	3	4	5	6	112"	ON OFF	1	2	3	4	5	6	160"	ON OFF	1	2	3	4	5	6
19"	ON OFF	1	2	3	4	5	6	67"	ON OFF	1	2	3	4	5	6	115"	ON OFF	1	2	3	4	5	6	163"	ON OFF	1	2	3	4	5	6
22"	ON OFF	1	2	3	4	5	6	70"	ON OFF	1	2	3	4	5	6	118"	ON OFF	1	2	3	4	5	6	166"	ON OFF	1	2	3	4	5	6
25"	ON OFF	1	2	3	4	5	6	73"	ON OFF	1	2	3	4	5	6	121"	ON OFF	1	2	3	4	5	6	169"	ON OFF	1	2	3	4	5	6
28"	ON OFF	1	2	3	4	5	6	76"	ON OFF	1	2	3	4	5	6	124"	ON OFF	1	2	3	4	5	6	172"	ON OFF	1	2	3	4	5	6
31"	ON OFF	1	2	3	4	5	6	79"	ON OFF	1	2	3	4	5	6	127"	ON OFF	1	2	3	4	5	6	175"	ON OFF	1	2	3	4	5	6
34"	ON OFF	1	2	3	4	5	6	82"	ON OFF	1	2	3	4	5	6	130"	ON OFF	1	2	3	4	5	6	178"	ON OFF	1	2	3	4	5	6
37"	ON OFF	1	2	3	4	5	6	85"	ON OFF	1	2	3	4	5	6	133"	ON OFF	1	2	3	4	5	6	181"	ON OFF	1	2	3	4	5	6
40"	ON OFF	1	2	3	4	5	6	88"	ON OFF	1	2	3	4	5	6	136"	ON OFF	1	2	3	4	5	6	184"	ON OFF	1	2	3	4	5	6
43"	ON OFF	1	2	3	4	5	6	91"	ON OFF	1	2	3	4	5	6	139"	ON OFF	1	2	3	4	5	6	190"	ON OFF	1	2	3	4	5	6
46"	ON OFF	1	2	3	4	5	6	94"	ON OFF	1	2	3	4	5	6	142"	ON OFF	1	2	3	4	5	6	193"	ON OFF	1	2	3	4	5	6
49"	ON OFF	1	2	3	4	5	6	97"	ON OFF	1	2	3	4	5	6	145"	ON OFF	1	2	3	4	5	6	196"	ON OFF	1	2	3	4	5	6

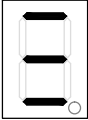
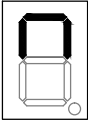
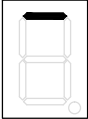
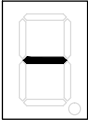
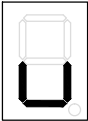
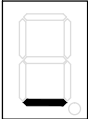
7.4) Audio/Visual Warning Timer Sets the Audio/Visualwarning time

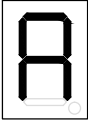


To set:
Use DIP5 (switch's 1 - 6)
to select time

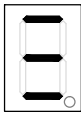
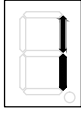
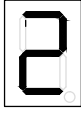
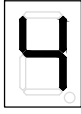
OFF	ON OFF 1 2 3 4 5 6
4"	ON OFF 1 2 3 4 5 6
8"	ON OFF 1 2 3 4 5 6
12"	ON OFF 1 2 3 4 5 6
16"	ON OFF 1 2 3 4 5 6
20"	ON OFF 1 2 3 4 5 6
24"	ON OFF 1 2 3 4 5 6
28"	ON OFF 1 2 3 4 5 6
32"	ON OFF 1 2 3 4 5 6
36"	ON OFF 1 2 3 4 5 6
40"	ON OFF 1 2 3 4 5 6
44"	ON OFF 1 2 3 4 5 6
48"	ON OFF 1 2 3 4 5 6
52"	ON OFF 1 2 3 4 5 6
56"	ON OFF 1 2 3 4 5 6
60"	ON OFF 1 2 3 4 5 6
64"	ON OFF 1 2 3 4 5 6
68"	ON OFF 1 2 3 4 5 6
72"	ON OFF 1 2 3 4 5 6
76"	ON OFF 1 2 3 4 5 6
80"	ON OFF 1 2 3 4 5 6
84"	ON OFF 1 2 3 4 5 6
88"	ON OFF 1 2 3 4 5 6
92"	ON OFF 1 2 3 4 5 6
96"	ON OFF 1 2 3 4 5 6
100"	ON OFF 1 2 3 4 5 6
104"	ON OFF 1 2 3 4 5 6
108"	ON OFF 1 2 3 4 5 6
112"	ON OFF 1 2 3 4 5 6
116"	ON OFF 1 2 3 4 5 6
120"	ON OFF 1 2 3 4 5 6
124"	ON OFF 1 2 3 4 5 6
128"	ON OFF 1 2 3 4 5 6
132"	ON OFF 1 2 3 4 5 6
136"	ON OFF 1 2 3 4 5 6
140"	ON OFF 1 2 3 4 5 6
144"	ON OFF 1 2 3 4 5 6
148"	ON OFF 1 2 3 4 5 6
152"	ON OFF 1 2 3 4 5 6
156"	ON OFF 1 2 3 4 5 6
160"	ON OFF 1 2 3 4 5 6
164"	ON OFF 1 2 3 4 5 6
168"	ON OFF 1 2 3 4 5 6
172"	ON OFF 1 2 3 4 5 6
176"	ON OFF 1 2 3 4 5 6
180"	ON OFF 1 2 3 4 5 6
184"	ON OFF 1 2 3 4 5 6
188"	ON OFF 1 2 3 4 5 6
192"	ON OFF 1 2 3 4 5 6
196"	ON OFF 1 2 3 4 5 6
200"	ON OFF 1 2 3 4 5 6
204"	ON OFF 1 2 3 4 5 6
208"	ON OFF 1 2 3 4 5 6
212"	ON OFF 1 2 3 4 5 6
216"	ON OFF 1 2 3 4 5 6
220"	ON OFF 1 2 3 4 5 6
224"	ON OFF 1 2 3 4 5 6
228"	ON OFF 1 2 3 4 5 6
232"	ON OFF 1 2 3 4 5 6
236"	ON OFF 1 2 3 4 5 6
240"	ON OFF 1 2 3 4 5 6
244"	ON OFF 1 2 3 4 5 6
248"	ON OFF 1 2 3 4 5 6
252"	ON OFF 1 2 3 4 5 6

8) Display Status

Normal Operating Status		
Display	Status	Notes
	Door ready for operation (normally shows after power on)	
	Door travelling in the OPEN direction	
	Door at TOP position with RUN TIMER expired	
	STOPPED	
	Door travelling in the CLOSE direction	Stop Button Pressed while the shutter is moving Open Button released while the shutter was moving in dead-man Down Button released while the shutter was moving in dead-man
	Door at BOTTOM position with RUN TIMER expired	

Fire Condition Status		
Display	Status	Notes
	Fire signal received Panel in Fire Condition	If Shutter is closed - no audio/visual warning is activated
		If Shutter is open - audio/visual warning is activated

9) Troubleshooting

Trouble shooting 1.			
Display	Fault	Cause	Solution
	Door will not operate after power up	External Stop Button Pressed	Release External Stop Button
		Run Timer (RT) DIP Switches not set	Set Run Timer (RT) to correspond with door height
	Door Travels in "Dead-man" OPEN and CLOSE	DIP2 (prog1) switch 6 is ON	Turn DIP2 (prog1) switch 6 = OFF
	Door Travels in "Impulse" OPEN and "Dead-man" CLOSE	Photocell activated or open circuit	Check Alignment
			Check For Obstructions
		Safety Edge activated or defective	Check 8k2 resistor fitted to (GND) & (SIG) Check DIP 2 (prog1) switch 1 = ON
			Check Optical Safety Edge Check DIP 2 (prog1) switch 1 = OFF Photocell or Safety device purposely disconnected to achieve this condition
	Run Time is shorter than shown in the table "RT"	DIP2 (prog1) switch 3 is OFF	Turn DIP2 (prog1) switch 3 = ON (Extended run time for UK)
	Upon receipt of fire signal No Audio/Visual Warning with door in closed position	Fire Alarm Activated	
Display	Fault	Possible Cause	
	Emergency Stop Button	Check and release any emergency stop buttons Check Factory fitted link	
	Safety Edge Activated or Defective	Factory fitted resistor disconnected DIP2 (Switch 1) wrong setting Safety Edge activated or defective	
	Photocell Activated or Defective	Factory fitted link disconnected Photocell activated or defective	
	Relays Damaged	Replace Unit	

