



Universal
Controller
Part No
C2850-000



INSTALLATION SHEET

SHEET NO. C2850 855

ISSUE 1

The Panachrome 2D Controller C2850-000 is designed to operate with Panachrome 2D detectors, e.g. C2540, C2510. Check you have the correct items.

Controller Installation

Position the controller in a suitable place on the roof of the lift car, fix using 4 No.8 screws.

Signals from lift required:

Power supply - AC supply voltage between 85 to 240V AC.

Alternatively, 18-25V DC.

Relay 1 output - a changeover relay provides the signal to the lift controller to re-open the doors.

VISUAL INDICATION

There are 2 options available to initiate the visual indication of door movement:

a) Automatic (Factory-set default position)

As the doors move, the system detects the motion causing the LEDs to flash red on closure, or illuminate green on opening. No additional wiring to the lift controller is then required. Switching delays vary according to door movement speeds and if the visual delay is not practical, then the installer should consider the external signalling method [see b) below].

Nudging

When the Panachrome is used in Automatic mode and the elevator controller provides a nudging facility, then the nudging control signal can be connected to the Panachrome CLOSING input. This will ensure that when the doors close under nudging control that the Panachrome display remains RED, even if the detectors are triggered. The polarity of the nudging control signal can be changed by setting switch 6 number 3 (SW6/3).

b) External Signal:

Signals are required from the door operator/lift controller to switch the LEDs to red or green. Voltages of between 12V to 230V AC/DC from the door open and door close contactors are connected to the input of the Panachrome controller. Refer to Table below for details.

Note: The voltage on the inputs must never exceed 250V. Beware of voltage transients which may exceed this (e.g. from relay coils). If necessary, fit appropriate suppression or snubber device.

For external signal activation, SW6/3&4 must be set according to whether the voltage will rise or fall when the signal from the controller is applied. If the voltage rises when the doors move, then SW6/4 on (Opening) or SW6/3 (Closing). If the voltage is normally present, and falls when the doors move, then set these switches OFF.

External signal activation provides the quickest response to indicate door movement.

Switch Settings C2850-000

SW5	2nd Relay	Functions
	OFF	ON
1	Function disabled	Canadian Timeout mode enabled
2	Function disabled	No Function
3	Function disabled	2nd relay operates with main relay (RL1)
4	Function disabled	2nd relay operates on system fault
5	Function disabled	2nd relay operates on 2D trigger longer than timeout period
6	Function disabled	2nd relay operates as SW5/5 above plus timed out 2D beam
SW6	Visible Display	Functions
	OFF	ON
1	Visual display OFF	Visual display ON
2	Wired, external signal, LED activation	Automatic visual LED activation
3	Closing, external signal FALLS	Closing, external signal RISES
4	Opening, external signal FALLS	Opening, external signal RISES
5	NORMAL display mode	TEST/DEMO display mode
6	Unused	
7	Unused	
8	Unused	

Table 1

The label inside the lid has further details on positions and settings of the switches.

Jumper Settings

Jumper	Jumper Fitted	Jumper Removed
J10	Enable Visual LED indication in TX	Disable Visual LED indication in TX
J11	Enable Visual LED indication in RX	Disable Visual LED indication in RX

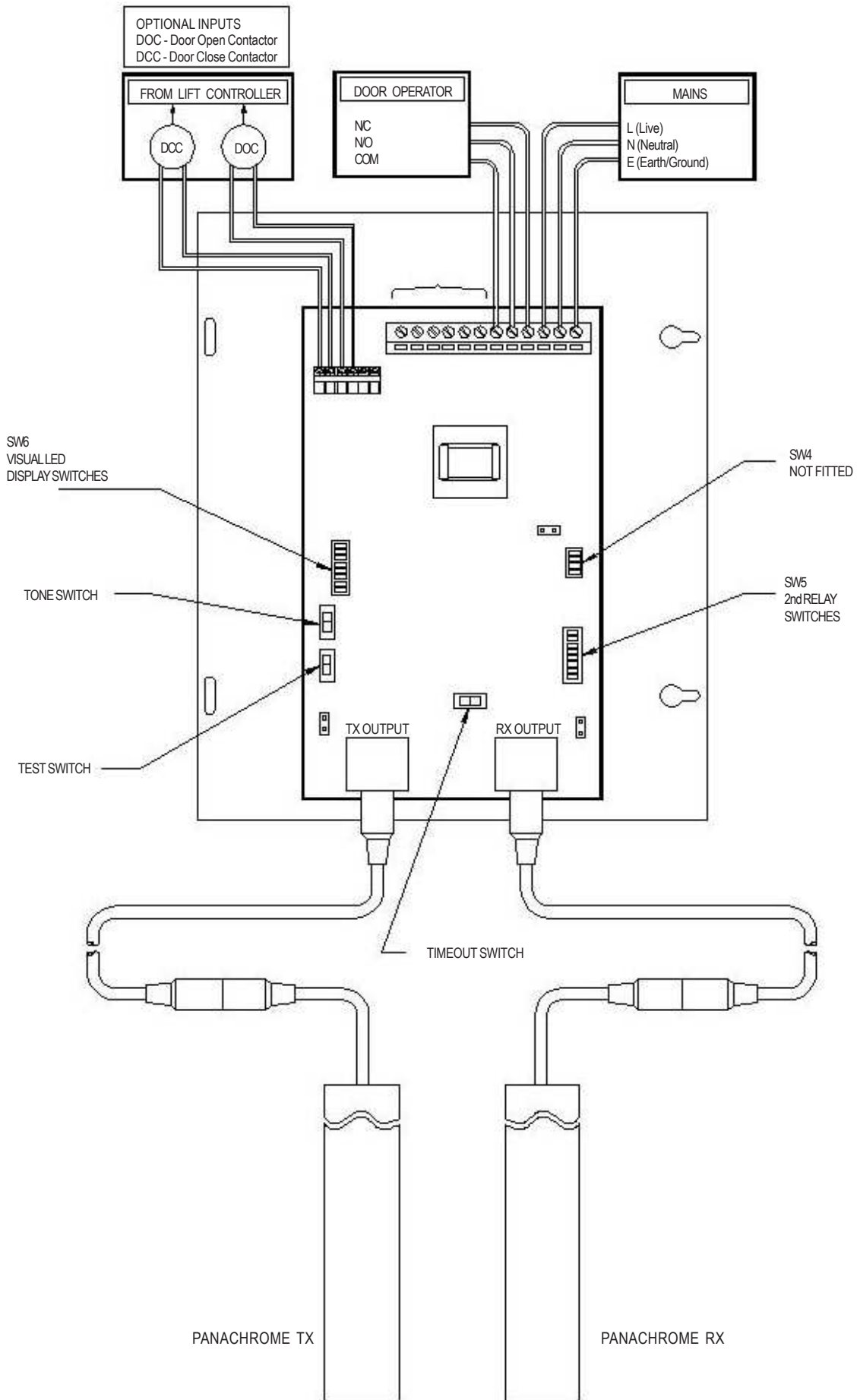


Fig 1: C2850-000 Installation