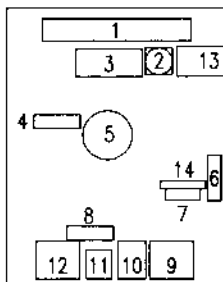


Troubleshooting Guide

The Pana40 Plus controller has been designed for trouble free operation. However, in the unlikely event of a problem, a special 'TEST MODE' is provided to give diagnostic fault code messages. At all other times the controller should be set to operate in 'NORMAL MODE'. Please refer to details on the different modes of operation below.

PCB Layout



1. Terminal Block
2. Fuse 63mA T
3. Door Operator Relay
4. Tone Switch
5. Beeper
6. Test Switch
7. Auxiliary header
8. Time-out Switch
9. Transmitter (TX) socket
10. Single character display
11. Time-out control 10-70s
12. Receiver (RX) socket

FOR 841 ONLY
13. Voltage Switch

FOR 3D ONLY
14. 3D Configuration PCB

Normal Mode Operation

- Step 1. Remove controller lid
- Step 2. Place Test Switch (Item 6) to 'OFF'
- Step 3. Display shows status of unit
- Step 4. Replace controller lid

Code	Description	Possible cause
	No segments illuminated.	<ul style="list-style-type: none"> ■ No power ■ Fuse blown or Controller fault
!	TX unplugged (Display flashing).	<ul style="list-style-type: none"> ■ TX unplugged ■ Damaged TX cable
!	RX unplugged (Display flashing).	<ul style="list-style-type: none"> ■ RX unplugged ■ Damaged RX cable
	Normal scanning state (Horizontal segments illuminate in sequence).	
0	Triggered state.	<ul style="list-style-type: none"> ■ Obstruction between detectors
3	3D Triggered state.	<ul style="list-style-type: none"> ■ Object in front of the landing doors ■ Reflections off the landing doors or architrave
F	3D Self Test Failure. Note: Power to the controller must be removed to reset the controller.	<ul style="list-style-type: none"> ■ 3D detectors not separated less than 20mm when doors are closed ■ Obscured TX or RX 3D diode(s) ■ Damaged TX or RX 3D diode(s)
	Time-out state (Decimal Point flashing and Normal scanning state display). See Note 4 overleaf.	<ul style="list-style-type: none"> ■ Obscured TX or RX diode(s) ■ Damaged TX or RX diode(s)

Test Mode Operation

- Step 1. Remove controller lid
- Step 2. Place Test Switch (Item 6) to 'ON'
- Step 3. Place Time-out Switch (Item 8) to 'OFF'
- Step 4. Place Tone Switch (Item 4) to 'ON'
- Step 5. Separate lift car doors greater than 300mm (12")
- Step 6. Note the codes shown on the display
- Step 7. Use the guide below to troubleshoot
- Step 8. Place the Test Switch to 'OFF'
- Step 9. Place the Time-out Switch to 'ON' if required
- Step 10. Replace the controller lid

- 1) Both RX and TX detectors have 5 pluggable printed circuit boards or Diode blocks. Diode block '1' is located at the cable end of the detector
- 2) Some codes are followed by digits which represent Diode blocks '1' to '5' (except the 'P' code where the digit corresponds to the separation of the lift doors).
- 3) This test is only performed when doors are more than 300mm (12") apart
- 4) 5 Beams maximum may be timed-out and no adjacent timed-out beams are allowed. If either condition occurs a permanent trigger ensues.

Code	Description	Possible cause
	No segments illuminated. No tone.	<ul style="list-style-type: none"> ■ No power ■ Fuse blown ■ Controller fault
	All LED segments illuminated.	<ul style="list-style-type: none"> ■ Controller fault
-	Used to separate different fault code messages.	
P → <input type="text"/>	Position of the lift doors. As a guide, a code between 'P1' and 'P3' should be displayed when the lift doors are approximately 300mm (12") apart; a higher/lower number suggests a fault. See Note 2 above.	<ul style="list-style-type: none"> ■ Detectors are not aligned properly ■ Detector covers are dirty
L → <input type="text"/>	Last triggered block. The last position of a triggered block may be useful for locating intermittent trigger problems. See Note 2 above.	
T → U	Transmitter unplugged. Intermittent tone.	<ul style="list-style-type: none"> ■ TX unplugged ■ Damaged TX cable
R → U	Receiver unplugged. Intermittent tone.	<ul style="list-style-type: none"> ■ RX unplugged ■ Damaged RX cable
H → <input type="text"/>	Triggered beam in block. Continuous tone. See Note 2 above.	<ul style="list-style-type: none"> ■ Obstruction between detectors
E → <input type="text"/>	Erased or Timed-out beam(s) in block. This indicates that one or more beams have been timed-out. See Note 2 & 3 above.	<ul style="list-style-type: none"> ■ Obstructed RX or TX diode ■ Failed RX or TX diode
R → <input type="text"/>	Receiver diode fault in block. Continuous tone. See Notes 2 & 3 above.	<ul style="list-style-type: none"> ■ Obstructed RX diode ■ Failed RX diode
T → <input type="text"/>	Transmitter diode fault in block. Continuous tone. See Notes 2 & 3 above.	<ul style="list-style-type: none"> ■ Obstructed TX diode ■ Failed TX diode