

Pana40 Plus Controllers 2D & 3D

Product Datasheet



The Model 841 series controller is used to drive any Pana40+ detector to generate a safety curtain of infrared beams between the elevator doors. It can be programmed to operate either a 40 beam parallel light curtain or a premium safety 194 beam criss-cross pattern. The dense 194 beam pattern is capable of picking up smaller obstructions between the doors and so offers extra protection and safety.

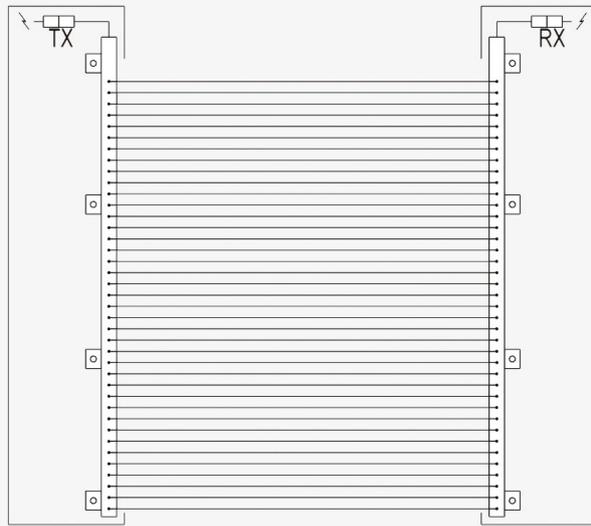
The controller's metal housing has been designed to allow easy access and installation. A pluggable terminal block aids fast installation and also provides a method to remove the supply voltage from the controller as a safety precaution.

The Model 841 controllers use one of the latest RISC micro-controllers with innovative software to control the detectors, perform self-test checks, measure the received infra-red signal, update trigger thresholds and make trigger decisions.

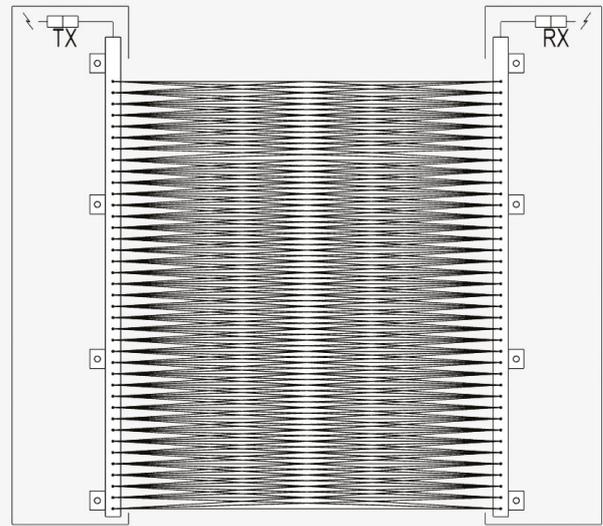
Any interruption to the infra-red beams across the lift door opening activates a relay which, through the door operator, can stop or reverse the closure of the lift doors.

Key Features

- + Patented power reduction software for extended life
- + Available in switchable dual voltage
- + LED display for troubleshooting diagnostics
- + 2D and 3D options available
- + Fail safe operation



40 beam parallel pattern generated by Model 841



194 beam criss-cross pattern generated by Model 841

Operation

The 841 controller is designed to fail-safe in the event of a system fault or the loss of supply voltage, the doors are held open until the fault is cleared.

A Tone switch and beeper are fitted as standard on the Model 841 Controllers. When the Tone switch is enabled, the Controller emits an audible tone whenever the unit is triggered. In the OFF position, no tone is heard when the unit is triggered. If either Detector is unplugged when the Tone switch is switched on, the Detector emits an intermittent tone. This is a useful troubleshooting aid for Service Engineers.

Model 843: Relay 2 is a double pole change-over relay. Firmware gives the option on how the second relay is used eg. 'Canadian Timeout'. This Timeout is designed to close the doors at a reduced speed, if the cables become unplugged or any beams are obscured for longer than 20 seconds.

The controller's software continuously checks the presence of the detectors and measures the power supply voltage. If the controller senses that a Detector has become unplugged or the cables are cut it will cause the lift doors to be held open.

Models available (see Ordering Information for full details)

- + 2D 40 beams
- + 2D 194 beams
- + 3D 40 beams
- + 3D 194 beams
- + Dual voltage
- + Twin relay on 843 Model

Technical Specification

Dimension:	202mm x 186mm x 52mm
Extension Cables 2 x set:	Length 4m; Weight 196g
Voltage Requirement:	95-265V AC or 93-127V AC or 83-115V AC, depending on Model 840 ordered. 195-265V AC or 93-127V AC, selectable by switch for Model 841. 190-265V AC, or 98-125V AC, for Model 843. Models 840 & 841 may be supplied with 11-25V DC voltage
Power consumption:	5VA max with Detectors fitted
Door Operator Relay:	240V AC 10A
Indicators:	A 13mm (1/2") single character 8-segment LED display showing controller status or fault code depending on Mode switch position
Mode:	Switched NORMAL/TEST
Trigger Duration:	250ms typical
Timeout:	Switched ON/OFF 10-70 seconds adjustable by pot (Canadian timeout set to 20secs also available on Model 843)
Pana40 Plus Typical scan time:	45ms (40 beams)
Pana 194 Plus Typical scan time:	200ms (194 beams)
Vibrations:	20-500Hz 1.0g rms 4 hrs 3 axis as per BS2011 Pt.2.1 Fd
EMC Compliance:	Emissions to EN 50081 Part 1. Immunity to EN 50082 Part 2
Number of Beams Per Detector:	40 Beams with Pana40+ Controller 194 Beams with Pana194+ Controller

Ordering Information

Note: one controller is required per set of detectors

Controller 2D	Controller 3D	Voltage
841 000	841 008	110-240V AC dual voltage (40 beams)
841 012	841 009	110-240V AC dual voltage (194 beams)
843 031	843 030	240VAC Twin Relay EN81-20 output (40 beams)

Note: when replacing a product not listed here, please contact your local sales office for support

This product is designed for use in elevators with powered automatic doors where the closing energy is less than 10J in normal operation and less than 4J during de-activation of the light curtains or less as per EN81 requirements. It should be installed by qualified personnel only, therefore any use outside of this application is at the installer's own risk and should be assessed appropriately.

As a result of our policy of continual improvement, the information in this document is subject to change without notice and it is intended only as general guidance on product performance and suitability. This information shall not form part of any contract.

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