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PI-43s

User Guide

Description

The PI-43s offers all the essential elevator display information in vibrant colour. Designed to be compact fitting it is ideal for tight fixtures and COP's. It also offers high viewing angles, which allow for both landscape or portrait mounting. The perfect solution for landing installs or the essential lift car display, this screen is full of features, allowing for complete programmable functions with the facility to drive a chime and hall lantern outputs. It also comes fitted with direct connectivity to either Pixel's serial DataBus or KONE SPI serial protocol.

Features:

- 4.3" 16 bit colour display
- Wide viewing angle
- Low power consumption
- Landscape and portrait orientation
- Direction, floor and lift status message indication
- Background image or solid color
- Auto sleep mode
- Chime & Lantern output drive
- Direct KONE SPI with built in messages for Plug n Play
- Pixel Technologies serial DataBus protocol
- Supports up to 127 floor levels
- Programmable via Windows software

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Programming

To configure and program the display you can download and install the windows based software, please scan the QR code on the back page to access and download the Lift Display Software.

In addition to the software please download the image library, all images are in bitmap format for both portrait and landscape designs.

Custom images can also be created, an easy way to achieve this is to copy any of the provided images and modify these in a simple image editing tool keeping the image file format attributes unchanged.

When uploading your design to a display, a Pixel RS-232 cable is required, PN: CB-PGMKIT

⚠ Prior to uploading ensure the device ID in the Lift Display upload dialog box matches that of the display.

NOTE: The device ID will be displayed upon power up.

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Specifications

Operating Voltage	12 - 30V DC
Operating Current	60mA @ 24V DC (No Ext. Chime/Lanterns)
Chime & Lantern Output	+24V DC, 350mA (maximum)
Input Protocols	Pixel & Design-Com - Mode 2, 3
	KONE SPI (Landing & Car Display Interface)
Pixel DataBus	RS-485
Pixel DataBus Length	Up to 64 nodes & 400m (max)
Display	4.3", 16-bit Colour LCD, 480 x 272 (16:9)
Viewing Area	55mm (H) x 97mm (W)
Programming Interface	RS-232, RS-485
Operating Temperature	0 - 50°C
Operating Humidity	90% max relative humidity, noncondensing
Dimnesions (mm)	127(W) x 68.5(H) x 19.5(D)

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LD
Lift Display Software

PC Connectivity (Serial Port)

Display image programming

Interface cable supplied separately
Ordering PN: **CB-PGMKIT**

Chime & Lantern Interface
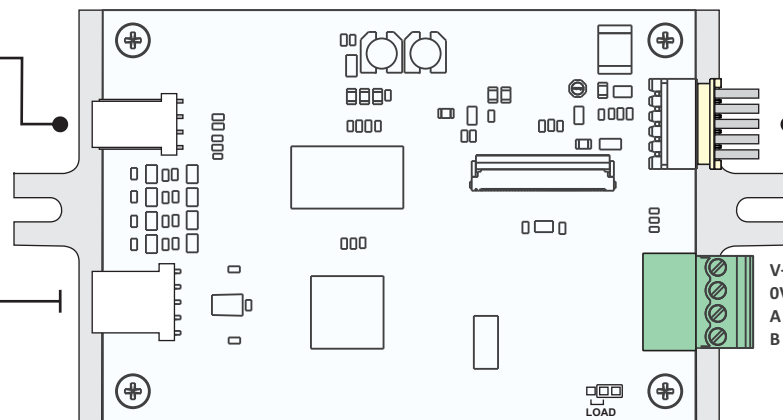
+24V DC Outputs, 0V (Common)

Interface Pinout

0V	Common
LD	Lantern Down
LU	Lantern Up
CD	Chime Down
CU	Chime Up

Interface cable supplied separately
Ordering PN: **CB-LD/GH**

Electrostatic Sensitive Device

When handling an exposed circuit board, avoid touching its connector pins and handle the board by its edges only.

Direct KONE SPI Serial Link

Connect to Landing or Car Display Port interface (Plug n Play)

⚠️ **NOTE:** If floor levels do not display please refer to LCECPU floor level programming.

Power & DataBus

Serial interface via Pixel Lift Encoder modules

V+
0V
A
B

Recommended A & B data Cabling:
Shielded Twisted Pair Belden 8723 or equivalent

⚠️ **NOTE**: Ensure sufficient **cable size** is specified for the power (V+ & 0V) wires when multiple devices are connected across a long bus length to minimize voltage drop and ensure sufficient voltage supply at each display.

Multiple 24V DC power supplies can be installed to ensure sufficient supply at the displays connected on the bus, although you must ensure the common 0V is connected between devices.

DataBus Load Termination

Network "Data Load" termination must remain OFF in a star network, where the lift encoder is located in the machine room and it is driving a lift display (car) via the trailer flex and also driving a daisy chain of landing displays.

Where the lift encoder is ONLY driving a daisy chain of landing displays or is installed in the Lift Car and also driving a daisy chain of landing displayed connected via the trailer flex then the load termination should be re-positioned to the ON (LOAD) position at the very last display on the bus.

LOAD

SCAN ME
To access product page on your tablet or smart phone

Please refer to
www.pixeltechnolgies.com.au
for warranty disclaimer, mechanical drawings and serviceable parts.

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PI-43s	Date:	10-05-23
Installation Diagram		
Designed By: D.H	Revision: 1.0.2319.0	Sheet: 1/1