Clear View TFT Full Colour LCD Data Sheet

Introduction

The Clear View range of TFT (Thin Film Transistor) LCD indicators utilises the latest surface mount technology to give a reliable and user friendly set of TFT LCD indicators. These are full colour chip on glass TFT's providing up to 16.7million colours and has a resolution of 480x272 pixels in a 4.3" display giving outstanding resolution and clarity. The indicators can also display logos and be programmed with various backgrounds and formats. The indicator is designed to be a cost effective TFT replacement of dot matrix indicators and can also be used in conjunction with the SF750 range of dot matrix indicators. The indicators communicate with the encoder board or the MEC32 control system via Controller Area Network (C.A.N) protocol. This allows for reliable and industry standard communication which is a well proven technology in the lift industry .The indicators are manufactured in our U.K. based factory. The indicators position outputs are reprogrammable on site without the need for a laptop computer.

Typical Screen Layout

Unit 2 Faraday Close, Drayton Fields Industrial Estate, Daventry, NN11 8RD
TEL: +44(0)1327 879334 FAX: +44(0)1327 877087
Email: enquiries@digital-advanced-control.co.uk

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Description

The Clear View indicators are mainly controlled from the control system or the encoder board. The positions and messages can be reprogrammed from the MEC32 control system or encoder card (refer to relevant manual for instructions). This means the number of floor designations and messages is only limited by the controller or encoder.

For the correct operation of the hall lanterns and gongs the indicator needs to know the level it is positioned, this is achieved via a set of DIP switches on the indicator which can be set to indicate the level of the indicator. This starts from the lowest level on the encoder or the microprocessor and is normally level 1, each switch is set as the chart below for each floor level. The coding is Binary.

Level	Sw 1	Sw 2	Sw 3	Sw 4	Sw 5	Sw 6
1	on	Off	off	off	off	Off
2	off	On	off	off	off	Off
3	on	On	off	off	off	Off
4	off	Off	on	off	off	Off
5	on	Off	on	off	off	Off
6	off	On	on	off	off	Off
7	on	On	on	off	off	Off
8	off	Off	off	on	off	Off
9	on	Off	off	on	off	Off
10	off	On	off	on	off	Off
11	on	On	off	on	off	Off
12	off	Off	on	on	off	Off
13	on	Off	on	on	off	Off
14	off	On	on	on	off	Off
15	on	On	on	on	off	Off
16	off	Off	off	off	on	Off

Recommended wiring and precautions for use.

a. As with all electronic devices observe static precautions, as this unit contains static sensitive devices use ESD protection equipment.
b. Use a cable correctly rated and fused to the maximum current of the indicators used, and with a minimum of 0.5 mm CSA.
c. For C.A.N Communications it is recommended to use a screened twisted pair.
d. Do not contact or scratch the front surface of the LCD.
e. The liquid in LCD's is a hazardous substance in case of contact with liquid crystal be sure to immediately wash such material away by soap and water.
f. Keep LCD away from direct sunlight also avoid them in high-temperature, high humidity environments for long periods of time.

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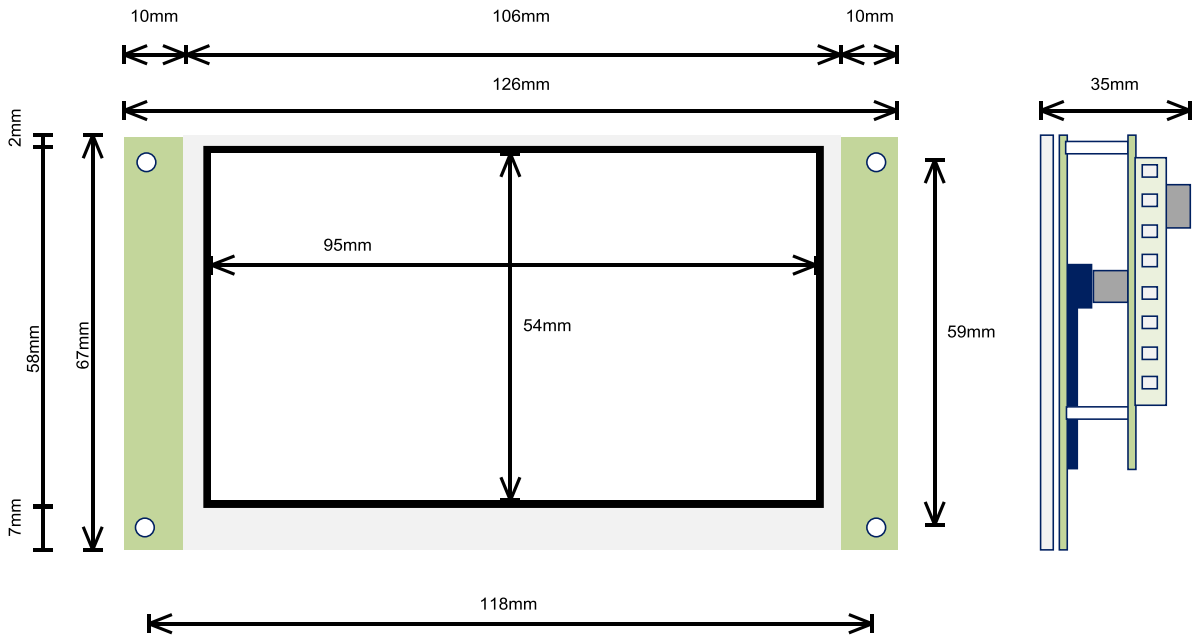
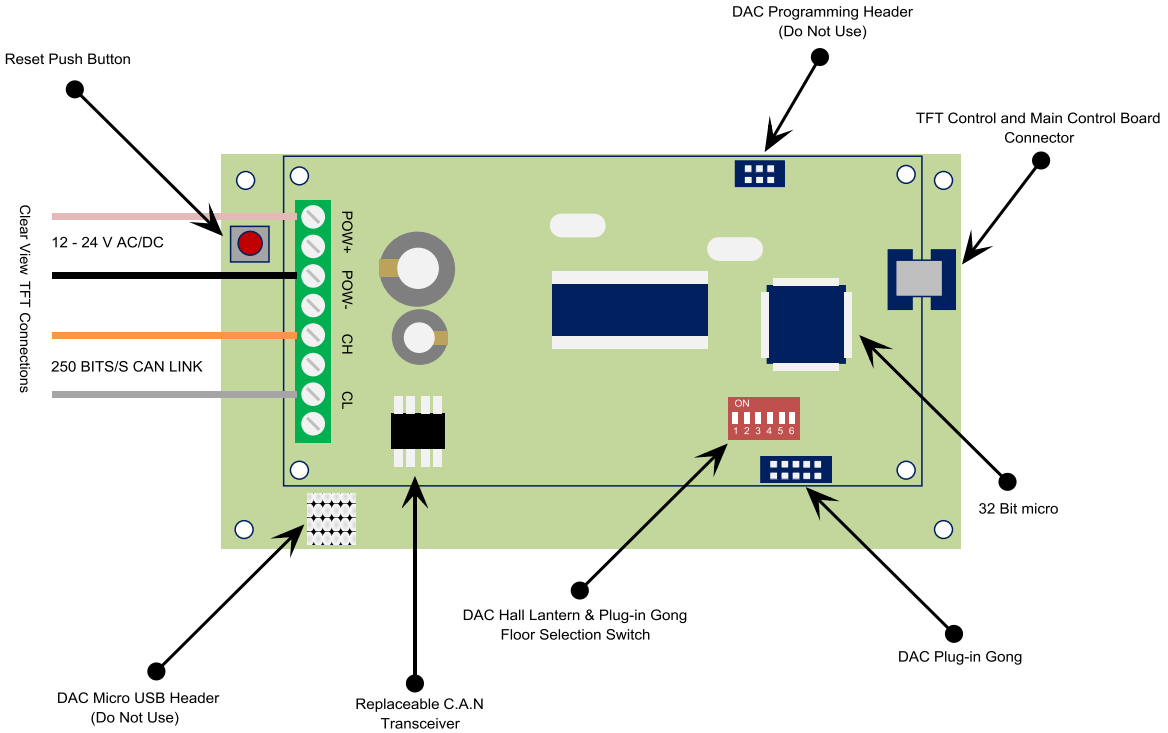
Clear View Dimensions and Connections



Note: The top and bottom board may be split to facilitate very low profile surface mount landing stations. Please contact sales and order a separate loom.



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Features

- A feature rich Low-cost unit without compromising quality and reliability
- 32 bit MIPS4 microprocessor technology
- Reprogrammable positions on site.
- TFT LCD technology
- Wide viewing angle greater than 160° (no need for separate side arrows)
- On-screen real time and date derived from the control super accurate real-time clock
- Large 4.3 inch screen
- Full colour graphics with up to 16.7 million colours
- High resolution for greater clarity
- Accepts JPG and GIF formats for backgrounds and logos
- Plug-in gongs available
- Works in conjunction with the SF750 dot matrix indicators (mix-and-match)
- Graphical symbolic messages as well as clear English messages
- Opto-isolated C.A.N communication for reduced wiring
- Works in conjunction with the Digital Advanced Control MEC32 control system without the requirements of additional encoder board.
- With an additional encoder board can work with other control manufacturers.

Designed, manufactured and supported in the UK

Technical Data

Overall Dimensions	126mm x 67 mm x 35 mm	Unit Weight	143 g
Normalised Supply Voltage	12 – 24V AC/DC +/- 10 %	Maximum Supply Voltage	35VDC
Normalised Supply Current	0.25A	Maximum Supply Current	0.5A
Minimum Temperature	0°C	Maximum Temperature	40°C
Active Screen Size	4.3”	Pixel Number	480 x 272
Pixel Size	0.2 x 0.2mm	Pixel Colours	16.7million
Viewing Angle	> 160°	Life Time@25°C < 70% R.H	50,000 Hours
Back Light Type	LED	Backlight Colour	White
LCD Type	a-Si TFT	No of Floors	32
Voltages on Board	1.25V/3.3V/5V DC	Communication Protocol	250kb/sec C.A.N.

Made in Britain

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