

Position Indicator Unit

Type ULS52-3D-T

Publication Number: PB185/0208

Description

ULS523DT 16 rows x 16 columns, 3.0mm dots, 64mm high. Horizontal or vertical PCB orientation.

Application

The indicator unit is tri-colour, programmed before shipment. A choice of three colours - red, amber and green (position & message) and lantern arrows red (down) green (up). Position and message colour can be programmed independently.

This serial indicator unit requires a separate encoder board which is mounted in the machine room and will interface directly to the lift controllers signal output. The encoder will convert all the required signals to a serial format and transmit these signals to all the indicator display units using 4 wire serial communication. The input connector for the serial interface on the display is SER. A total of 31 display units can be connected to a single encoder board. There is no special cable requirements for the 4 wire serial communication.

The ULS52-3D-T can display up to 2 characters or one character with a directional lantern arrow. 2 character with override arrow is also available.

Flashing and/or scrolling facility for the arrows. If required, messages can also be programmed which can scroll below the position characters or across the entire display (message override)

Note:

This component can be used to meet M2/S2* Building Regulations when a car position indicator, type ULS52-3D-T is required.

Operation

The displays require 24V a.c./d.c. power supply. The maximum current consumption is less than 0.15A for 24V. Connector SER is for the power supply inputs.

The display is made up of two high resolution block matrix LED displays which provide a clear, bright, wide angle view, even in sunlight.

Each unit is programmed to meet your specific requirement, just advise us of the legends you wish to be displayed.

When the lift is operating normally, the left-hand side of the display will show the directional arrow followed by a floor legend.

For serial displays, the trigger signals to display the floor number and arrows from the lift controller are accepted by the encoder board in the lift machine room and transmitted to all the display units through the 4 wire serial interface. For the technical detail of the input signals please refer to the encoder board CH024 or CH034 documentation.

Floor Position Indicator Control - floor inputs are driven by binary code, gray code, any arbitrary code or one per floor inputs.

Directional Arrow and Gong Control - (the gong is supplied as an option and applies to serial units only) - an input each for UP and DOWN arrow together with optional flash and scroll features if required. When these signals are present the directional arrow will flash and/or scroll. In addition, a lift stop signal is required to stop the arrow from scrolling when the car stops at a floor. If the floor number setting on the Switch SW1 matches the floor position code, the stationary arrow will flash to simulate a lantern, the gong outputs will activate gong.

Display Capabilities

The table overleaf details the maximum number of characters that can be programmed and triggered into the display.

EEC Directives

This component has been designed with due consideration to both BSEN81 parts 1 & 2 and the EMC Regulation BSEN12015 and BSEN12016 for incorporation in a lift application.

*M2 - The Building Regulations 1991 Access and Facilities for Disabled People. Access and Use M2 (England and Wales).

S2 - Technical Standards (Building Regulations) Part S : Access and Movement within Buildings, and Protective Barriers. Movement within Buildings S2 (Scotland).

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	D lift material	t 02 9310 4288	f 02 9698 4990	info@liftmaterial.com	www.liftmaterial.com
Canada	D dupar controls	t 519 624 2510	f 519 624 2524	info@dupar.com	www.dupar.com
UK	D LiftStore	t 020 8538 1770	f 020 8538 1771	info@liftstore.com	www.liftstore.com
USA	D the fixture company	t 847 214 3100	f 847 214 2771	info@thefixtureco.com	www.thefixtureco.com

FEATURES AVAILABLE SERIAL DISPLAYS	TERMINAL ALLOCATION (used with Serial displays only)	
	CH024 24 MAX	CH034 34 MAX
UP & DN Arrows	2	
Scrolling Arrows	1	
Flashing Arrows	1	
Floors: Encoded	1-3 1-7 1-15 1-31	2 3 4 5
One per floor	1-16 1-24 1-32	- 1 each -
Message triggers:	1 each	

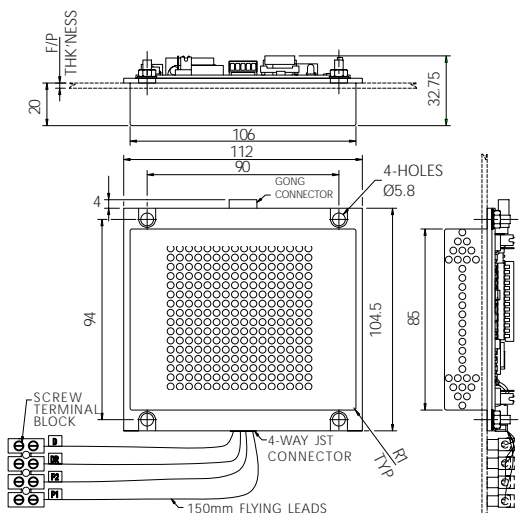
Construction

The ULS52-3D-T is constructed from a single board, as shown in the drawings below. There are four mounting holes for 4mm diameter screws that allow the display unit to be mounted to the faceplate. A window is provided with the display units.

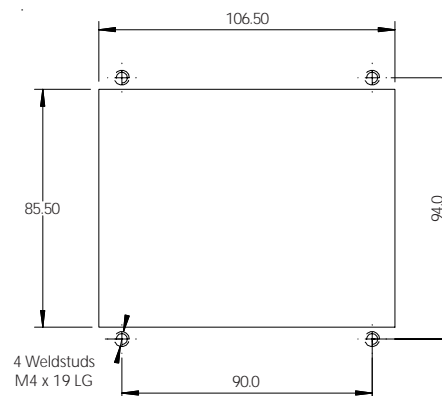
Specification

ULS52-3D-T	
Input Signal	Four wires serial communication
Display screen size	64mm (W) x 64mm (H)
Physical PCB size	112mm (W) x 104.5mm (H) x 32.75mm (D)
Number of LED dots	16 rows x 16 columns
Dot size	3.0mm diameter
Dot pitch	4.0mm
Character height	55mm (Arrow = red down, green up. Position = red, green or amber)
Colour	Tri-colour (red, green or amber)
Operating temperature	-20°C to +65°C
Storage temperature	-20°C to +75°C
Humidity	0% to 95% non-condensing
Power supply, absolute max rating	20Vd.c. to 27Vd.c. or 15Va.c. to 20V a.c.
Peak supply current (d.c.)	0.15A @ 24V
<p>Serial data is transmitted in blocks to the display unit. Each logical block defines a floor number and direction arrow.</p> <p>The floor codes and floor legends are stored in the encoder cards EPROM.</p>	

ULS52-3D-T Serial Display



Cutout & Stud Positions



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