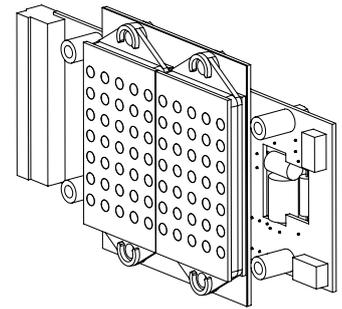


Digital Display

Type VRS52H, VRS52V

Publication Number PB160/0517



Description

VRS52H/V S/P

7 rows x 10 columns, Ø4.0mm dots, 50mm high. Horizontal or Vertical PCB orientation.

Application

The indicator units come in a choice of three colours - red, amber and green.

Parallel indicator units do not require an encoder board in the machine room. There are ten photo-coupled trigger inputs, connector PAR1, with one common return. These inputs are programmable to correspond to the respective floor legend. Signals are from 12V to 24V a.c./d.c. @ 20mA.

Serial indicator units require 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 VRS52H/V's can display up to 2 characters or one character with a directional arrow. 2 character with override arrow is also available. The displays can also be programmed for vertical mounting.

VRS52H/V's have a flashing and/or scrolling facility for the arrows. If required, messages can also be programmed which will scroll in the same orientation as the PCB.

Operation

The displays require 12V to 24V a.c./d.c. power supply. The maximum current consumption is less than 0.46A. Connector SER is for the power supply inputs.

The displays are 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 parallel displays, the trigger signals to display the floor legend and arrows from the lift controller are accepted by the controller board causing the legends to be displayed together with the directional arrow. EEPROMS are programmed into each display unit to customise the unit before installing it into the lift.

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 CX-Basic & CX-Synchro 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.

Construction

The front appearance of the VRS52H/V is designed to match the stainless steel faceplate. The LED display blocks for the VRS52H/V have a 1.5mm stainless steel grade 316 front face. The block body, which is permanently bonded to the stainless steel face, is 5mm in depth and manufactured from polycarbonate. The design is such, that the effective source of light is the face of the block itself, giving an angle of view in excess of 150°.

The impact resistance of the display exceeds 10 joules (EN81-71 Class 2).

The display blocks and associated electronic driver board are mounted behind the faceplate by means of weldstuds. All electronic boards are tropicalised.

The VRS52H is a compact display that can be fitted in landing and car stations.

The unit can be supplied fitted into faceplates of stainless steel grade 316, and is available finished both horizontally (standard) or vertically.

FEATURES AVAILABLE SERIAL DISPLAYS	TERMINAL ALLOCATION (used with Serial displays only)	
	CX-Basic 24 MAX*	CX-Basic+Synchro 40 MAX**
UP & DN Arrows	2	
Scrolling Arrows	1	
Flashing Arrows	1	
Floors: Encoded	1-3	2
	1-7	3
	1-15	4
	1-31	5
One per floor: (discrete) With CX-Basic only	1-14	1 each
With CX-Basi+Synchro	1-30	
Message triggers:	1 each	

* CX-Basic available inputs are reduced by 10 (dedicated inputs) for lantern, arrow, gong and speech control.

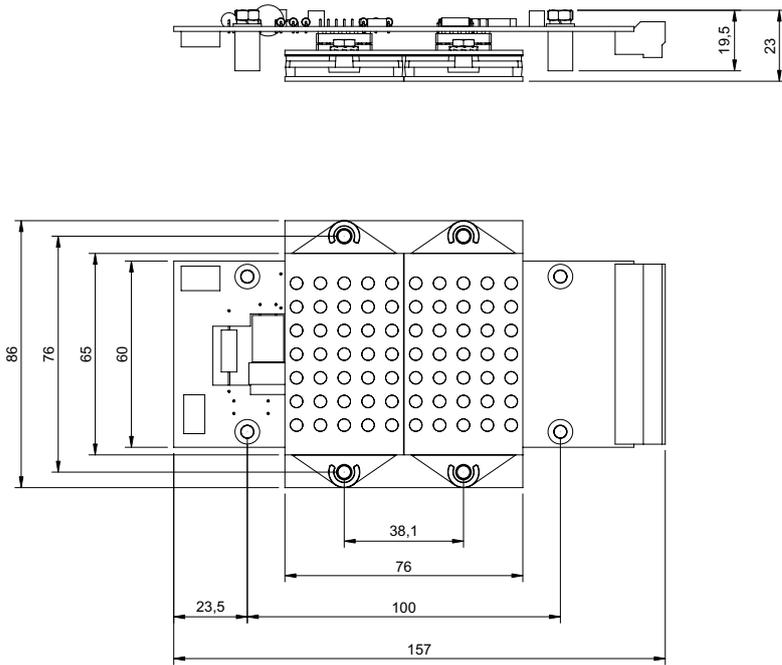
** CX-Basic+Synchro available inputs are reduced by 10 (dedicated inputs) for lantern, arrow, gong and speech control.

FEATURES AVAILABLE PARALLEL DISPLAYS	TERMINAL ALLOCATION (10 AVAILABLE)	
UP & DN Arrows	2	
Scrolling Arrows	1	
Flashing Arrows	1	
Floors: Encoded	1-3	2
	1-7	3
	1-15	4
	1-31	5
One per floor 1-10	1 each	
Message triggers:	1 each	

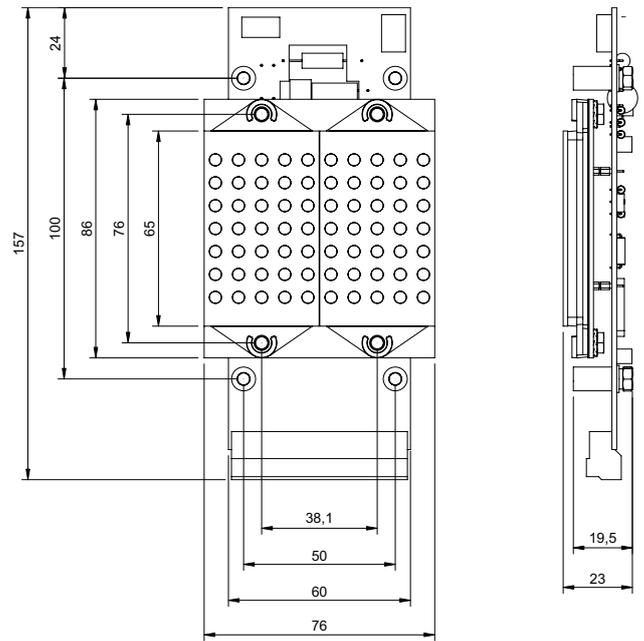
Specification

	VRS52HS VRS52VS	VRS52HP VRS52VP
Input Signal	Four wires serial communication	10 programmable photo-coupled inputs
Display screen size	76mm (W) x 65mm (H)	76mm (W) x 65mm (H)
Physical PCB size	157mm (W) x 86mm (H) x 23mm (D) H 76mm (W) x 157mm (H) x 23mm (D) V	157mm (W) x 86mm (H) x 23mm (D) H 76mm (W) x 157mm (H) x 23mm (D) V
Number of LED dots	7 rows x 10 columns	7 rows x 10 columns
Dot size	4.0mm diameter	4.0mm diameter
Dot pitch	7.62mm	7.62mm
Character height	50mm	50mm
Colour	Single (red, green, blue or amber)	Single (red, green, blue or amber)
Operating temperature	-20°C to +65°C	-20°C to +65°C
Storage temperature	-20°C to +75°C	-20°C to +75°C
Humidity	0% to 95% non-condensing	0% to 95% non-condensing
Power supply, absolute max rating	10Vd.c. to 30Vd.c. or 10Va.c. to 27V a.c.	10Vd.c. to 30Vd.c. or 10Va.c. to 27V a.c.
Peak supply current (d.c.)	0.46A @ 12V, 0.23A @ 24V	0.46A @ 12V, 0.23A @ 24V
	Serial data is transmitted in blocks to the display unit. Each logical block defines a floor number and direction arrow. The floor codes and floor legends are stored in the encoder cards EPROM.	The floor codes and floor legends are stored in the displays EEPROM. Configuration and customisation is carried out by programming and replacing an EEPROM in the display unit.

VRS52H Digital Display

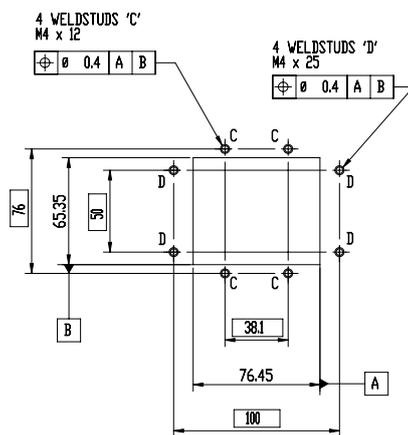


VRS52V Digital Display

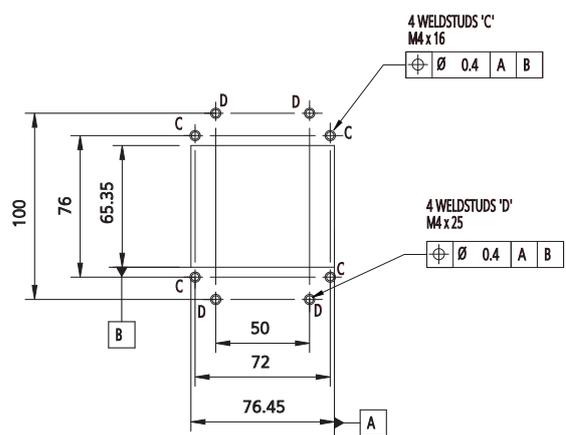


VRS52 CUTOUT DETAILS

VRS52 HORIZONTAL



VRS52 VERTICAL



All dimensions in mm