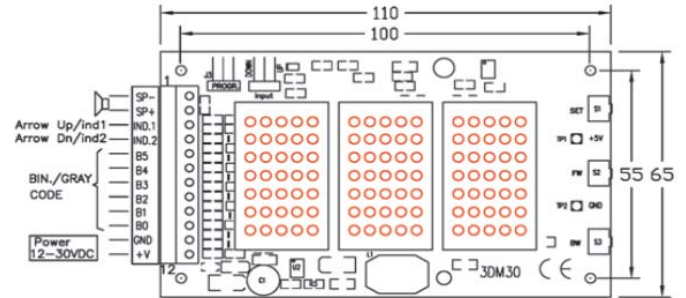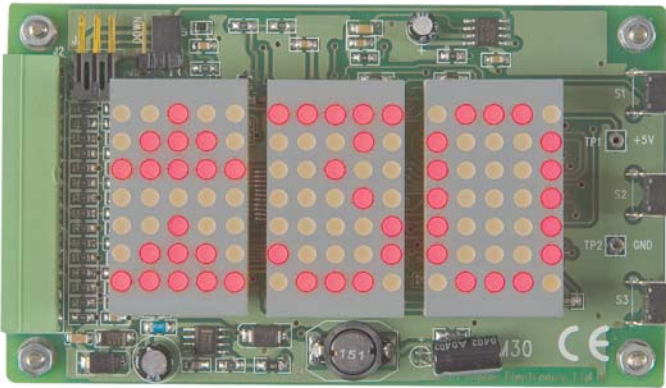# 3DM30 / 3DMS30

Dot Matrix Display Device for Lifts

VUOLAS

3DM30 is a microcontroller based dot matrix display device for lifts. It can be assembled either to the car or to the level. It can present floor markings, direction arrows and indicators. It accepts wide range of nominal supply voltages, because it is equipped with high efficiency switched mode power supply. 3-tone gong sound generator produces different sound depending on direction. Advanced digital filtering enhances robustness in poor signal quality environments.

Functional specifications
- Applicable for assembly either to the car or to a level.
- Maximum number of floors is 32
- Presents floor markings, direction arrows and indicators
- Floor mark consists of 2 characters: 0...9, A...Z, space _ - ( ) * + , . / : ;
- Scrolling of arrows can be made automatically. Scrolling time is customer configurable. External activation of arrow scrolling is also possible (in parallel interface version 3DM30 this makes indicators unavailable)
- Audible signaling by a standard gong with different sound depending on direction (upwards 1120Hz, downwards 980Hz and 871Hz)
- Gong volume 30dB adjustment range in 4 steps
- Optionally available with loudspeaker
- VEBUS serial interface (in 3DMS30 version) enhances control possibilities (makes available external control of audible signaling, external activation of arrow scrolling concurrently with indicators, etc)

Visual specifications
- Display resolution: 3 pieces of 5 x 7 led matrixes
- Active area is 30 mm x 68 mm
- Viewing angle: min. 60°
- Color: Red on stock, please inquire for special colors

Electrical connections
- Operating voltage range, 12…30 VDC (max. 5% ripple voltage)
- Current consumption, 150…75 mA @ 12…24 VDC (without gong)
- Setup copy function interface
- Loudspeaker impedance: 8...32 ohm
- Parallel interface in 3DM30 has:
  - Internal 10 kohm pull-down or pull-up resistors depending on jumper settings
  - Input voltage range: 0…30 VDC
    - Logic 0: 0...1VDC
    - Logic 1: 10...30 VDC
  - Parallel mode position input coding is selectable: Binary/Gray
  - 2 indicator control inputs (alternatively configurable to control arrow scrolling)
- 3DMS30 has VEBUS serial interface

Configuration
- Device configuration is made by means of displayed menu and 3 push buttons covering configuration of:
  - Gong volume (1…4)
  - Installation position selection (Car/Landing)
  - Input coding (Binary/Gray)
  - Level where gong sounds if in landing-mode (0…31)
  - Scrolling time (1…5)
  - Select IND1 and IND2 control: arrow scrolling / indicators
  - IND1 indicator symbol
  - IND2 indicator symbol
  - Floor marks

Size and environment
- Physical dimensions are 110 mm x 65 mm x 20 mm (+ additional space for connectors)
- Operation environment: 0…60 °C, RH: <85% (no condensation)
- Not to be used in wet, moist or dusty environment