

## Horizontal Graphic OLED Display Device for Lifts



**PLED is a graphic OLED display with a resolution of 128 by 64 pixels and horizontal orientation. The display is optimized for lift applications. It can be assembled either to the car or to the level. It can present floor markings, direction arrows and the other graphical symbols needed for special indications. Audible signaling can be done by a standard gong. Gong sounds differently according to direction that car moves. Device is capable to take action in power failure situation automatically.**

### 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 graphical symbols needed for special indications
- Floor mark consists of one or two letters or numbers (0...9, A...Z, minus sign)
- Scrolling of arrows can be made automatically. Scrolling time is customer configurable. External activation of arrow scrolling is also possible
- Audible signaling by a standard gong (loudspeaker is an accessory)
- Ability to display emergency information in a power failure situation automatically (requires external back-up power supplied to corresponding connector). Polarity is software selectable
- Adjustable loudspeaker volume (loudspeaker is an accessory)

### Display module specifications

- Display resolution: 128 x 64 pixels (H x V)
- Module Dimension 76.65 x 52.7 mm
- Viewing area: 60 x 32.5 mm
- Dot Size 0.40 x 0.40 mm
- Dot Pitch 0.43 x 0.43 mm
- Bixel Brightness 60 cd/m<sup>2</sup>
- Expected lifetime 20 000 h

### Electrical connections

- Operating voltage range 12...30 VDC (max. 5% ripple)
- Current consumption below 20 mA @ 24 VDC (without gong)
- Backup battery input
- RS-485 serial interface for control
- RS-232 serial interface for LCDtool cable
- Loudspeaker impedance: 8...32 ohm
- Adjustable volume (trimmer potentiometer)

### Configuration

- PLEDtool application (accessory)
  - All graphics (bitmap) are editable with a PC
  - Requires LCDtool software and a cable, also picture editing software is needed
  - Floor marks and twelve floor pictures can be easily modified by editing the text file
- Device configuration is made by means of displayed menu and 3 push buttons covering configuration of:
  - Input coding (BIN or GRAY)
  - Installation position selection (CAR/LANDING)
  - Logo graphics (OFF/ON)
  - Programming (PROG OFF/ON)
  - Power Failure Polarity (PF POLAR 0/1)
  - Arrow input selection (EXT/AUTO)
  - Emergency info picture (EMER INFO 0...2)
  - Time and date settings (RTC SET) (optional)
  - Level for SYM4 (SYM4 FLOOR)
  - Level for gong if in landing-mode (GONG FLOOR)
  - Floor marks (BUS 00...BUS 31)

### Size and environment

- Physical dimensions (+ additional space for connectors)  
Standard PCB: 75 mm x 85 mm x 15 mm
- Weight: 80 g (max.)
- Operation environment: 0...70 °C, RH: <85% (no condensation)
- Not to be used in wet, moist or dusty environment