**LED illuminated display  LWA-90 super bright**
**LED illuminated display  LWA-90UH ultra bright**



Examples of LED illuminated display in black;  any specific text or graphic can be achieved by silk screen printing or foil

## LED illuminated display with super bright LEDs or NEW: ultra bright with 2,5 times luminosity

Profile housing made of aluminium with a printed front plate and two end caps. The transparent tinted front plate is printing by silk screen or foil on its back with the specific text. The illumination area is homogenous due to usage of a light stray body, activated by superbright LED-stripes with constant current drivers. The LED illuminated display does not need any maintenance.
Via a first selector switch the indication unit can be set to either constant or flashing lightning. An integrated buzzer (~70dB) can be activated by a second selector switch. Optional, an intermitting relay-contact output (max. 1A/24Vdc) is available to drive an external sounder (24Vdc).
Options: (a) protection roof, made of stainless steel; (b) pre-mounting socket, made of stainless steel;
        (c) sealing set (IP54), weather protection housing (IP65) for outdoor installation,
            made of transparent acrylic.

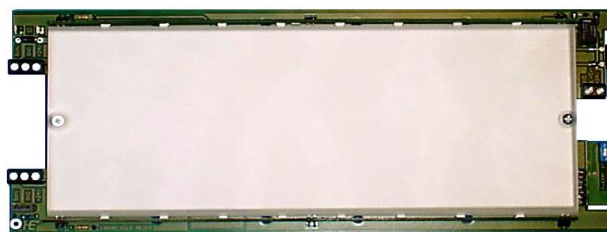| Technical data: | LWA-90 super bright | LWA-90UH ultra bright |
|---|---|---|
| colour of housing: | black, white or white-aluminium | black, white or white-aluminium |
| colour of illumination: | red, yellow, green, (blue on request) | red |
| dimensions (W x H x D) : | 300 x 120 x 35 mm | 300 x 120 x 35 mm |
| illuminated area (W x H) : | 240 x 90 mm | 240 x 90 mm |
| supply voltage: | 21 - 29 Vdc | 21-29 Vdc |
| supply current @24Vdc constant : | 75 mA (red,yellow);  126 mA (green,blue) | 150 mA |
| supply current for buzzer | + 12 mA | + 12 mA |
| supply current for optional relay | + 10 mA | + 10 mA |
| self-resetting fuse: | polyswitch | polyswitch |

protection class:         IP 50; dust proof; -40° .. +85°C
                     option: sealing profiles IP54 (splash proof)
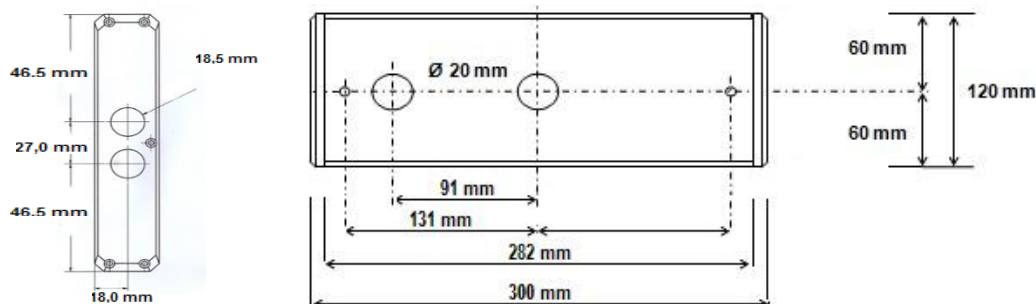                          transparent weather protection housing according to IP65

## Mounting:

solder pins parallel to +24V / GND for end-of-line resistor; ext. decoupling diode is not necessary

connector terminals, doubled for coming and going cables



buzzer

(optional) output 24Vdc for external sounder

DIP-switch 1: constant / flashing

DIP-switch 2: buzzer ON / OFF

Profile housing with two end caps ABS: left 2 holes Ø 18.5 mm with lock plugs, right without holes



- The profile housing is fixed by 2 screws to the wall or to the mounting socket (M5x10). The cable entry can be done through the hole from behind or through one of the end caps.
- The board is inserted **in the 4rd slot from the bottom (right picture)** , the terminals are on the left hand side.
- Supply cable cores (+/-24Vdc) and shieldind wire are connected to the screw terminals.
- Set the DIP-switches on the right hand side. Factory setting is: "flashing" and "buzzer OFF"
- Slide the front plate without the protective folio into the top slot of the housing.
  **(Attention: When using the sealing profiles slide the front plate with its rounded edges forwards carefully into the top slot of the housing, to avoid damaging the sealing profiles;  ensure that the text is readable. For side cable entry PG11 cable glands are supplied to be used).**
- End caps are plugged on the profile and secured with the screws at each end.
- Cleaning is done with a damp cloth only. Avoid any aggressive or abrasive cleaners.

4. Slot

010319.2  LWA-90 03.19 EN