

Application

- dynamic display of current information, warnings and commands to ground personnel and all persons walking on the service roads and areas of the airport

In accordance with

- ČSN EN 12 966 (road „variable message signs“)

Description/Properties

- information display using a grid of 16×96 (total of 1 536) simultaneously lighting RGB powered LEDs with special silicone optics resistant to UV and dirt
- colour display of short texts and pictograms
- the basic seven colours fully meet the requirements for standard variable message signs
- front panel in matte black for maximum contrast and legibility
- automatic brightness control according to ambient brightness ensures reliable reading, eliminates observer glare and reduces power consumption
- operation and content of displayed information is handled by a master control system

Design

- durable aluminium cabinet for outdoor use
- control electronics modules are mounted together with the LED-bearing DPS on the front panel and ARE interconnected by cables
- power supplies, fuses and surge protectors are located in the back of the cabinet
- at the bottom part of the cabinet, there is a pair of drainage bushings that protect the interior from dirt and allow any condensed moisture to drain out
- the cabinet is on the right side fitted with a pressure equalizing bushing to limit the penetration of moisture into the cabinet

Conditions of use

- IP Code IP 55
- operating temperature $-30 \div +55 \text{ }^{\circ}\text{C}$



chapter:

5.9.5

PDZ01



Assembly/Connecting/Power supply

- profiles in the back of the cabinet allow assembly of the holders to various structures (fixing elements are not included and are individually designed according to specific requirements)
- communication with the master RS-485
- maximum length of communication line is 1 200 m
- Ethernet diagnostic interface 100-BaseT/M12
- power supply from standard mains (230 V AC)

Electrical parameters

- input supply voltage: 180–260 V AC
- supply voltage frequency: 47–63 Hz
- maximum power: 410 W
- typical power (according to the displayed information): 170 W
- recommended power cable protection: 6 A/B

Mechanical parameters

- dimensions: 2 115×565×250 mm (w×h×d)
- active panel area: 300×900 mm
- weight: 55 kg

Optical structure

- power RGB LEDs with optics in a 16×96 grid
- LED spacing 20 mm
- optics are housed in the front panel coated with special anti-reflective black colour
- color depth: 24 bit (16 million colours) including all seven basic colours according to EN 12 966
- optical specifications (CSN EN 12 966)
 - colour C2
 - brightness L3
 - brightness ratio R3
 - emission angle B3
- lifespan of optical elements (decrease in luminosity by 15 %):
 - 20000 hod at 100 % brightness
 - 50000 hod at 50 % brightness
- front and rear ambient light intensity sensor for LED brightness control

SKU

PDZ 01.A00.XXYYZZ

number of LED display modules

horizontally _____

06 6×16 = 96 optical elements horizontally

vertically _____

02 2×8 = 16 optical elements vertically

display element spacing

20 20 mm

