Display for mobility applications

Pedestrian Guidance System

The digital pedestrian guidance system combines the classic approach of a signpost with the latest technology from the field of dynamic wayfinding systems. Because of its discreet and filigree design it blends harmoniously into its surroundings but offers the viewer a clear added value. The column is equipped with three arrows that can move through almost 360° and a corresponding control software. Dynamic information can be displayed on large LED displays in the arrows, which are easy to read even from a distance.

ROBUST, DURABLE & FUTURE-PROOF

The digital column is an autonomous 360° information and guidance system. The three movable digital arrows are equipped with a servomotor and can change their position dynamically. On the LED screens events and automatic suggestions of „how to get there" are shown. They can also create a "full screen" mode if they are all arranged below each other.

The pedestrian guidance system is equipped with two info-signs. All information on the events displayed can be called up via a QR code. It is also possible to buy tickets directly.

HIGHLIGHTS

- 3 geo-controlled 360° auto-movable arrows
- double-sided, high-resolution LED displays
- up to 10 years usage (LED: 100.000 h)
- outdoor and indoor use
- sensors included: brightness, temperature, unit-failure, vandalism
- corresponding control software for dynamic information
- subsequent implementation of further applications possible
- 2 info-signs (QR / braille)

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TECHNICAL DATA

GENERAL DESCRIPTION

Exact designation	Pedestrian Guidance System (three double-sided LED displays and information boards)
Area of application	Outdoor and indoor, also with direct sunlight

ARROW WITH LED-PANEL

Display area (LED display)	Screen size (H x W):	1.000 x 250 mm
	Display Resolution:	384 x 96 pixel
	Pixel Pitch:	2,6 mm (vertical and horizontal)
Dimensions Arrow (W x H x D)	1.100 x 255 x 150 mm	
Housing	Self-supporting body	
	Sheet metal plate with all-round welded sheet metal bending construction	
Front	Without front glass, IP65 protected	
Viewing angle	Typical 160° in horizontal and vertical direction	
Initial contrast	Typical 5000:1	
Display colour	RGB 16 bit Full Color	
Initial brightness value	Max. 4.000 cd/m²	
Brightness control	Brightness control according to ambient light	

HOUSING / LIGHTING

Housing / mast material	Coated steel / aluminium
Surface colour	DB703
Mounting	Round base plate with 4 holes – recommended bolt size M24
Electrical connecting terminal	2,5 mm² (L/N/PE) 230 V / 50 Hz
Lighting	Four LED bulbs offset by 90° from each other in the mast wreath, max. 108 lm per bulb, 2.700 K warm white, dimmable

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DIMENSIONS / WEIGHT

Total hight	4.050 mm
Diameter Mast / rotation head	200 mm / 280 mm
Weight incl. arrows	ca. 560 kg

POWER SUPPLY & CONSUMPTION

Power supply	230 V / 50 Hz P=2,0 kW
Typical Power consumption Operation	ca. 300 W, max. 1,8 kW, excl. heating element

CLIMATIC & ENVIRONMENTAL CONDITIONS

Temperature range operation	-25°C to +40°C
Temperature range storage	-20°C to +60°C
Air conditioning	Air circulation for cooling. 200 W heating element
Service life of LED module	ca. 100.000 h
Service life of the entire device	ca. 10 years
Protection class / electrical protection class	Monitor Part IP65 / Protection Class 1
Approvals	CE (EMC and electrical safety)

MONITORING

Sensors	Brightness, temperature, shock/vibration, failure detection
Fallback display	Display of a definable fallback page in case of interruption of the data connection

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CONTROL UNIT & INTERFACES

Computer board	NVIDIA Jetson Nano, ARM-A57-processor with 4 x 1,43 GHz, internal 128-core GPU with Maxwell architecture
Memory	4 GB LPDDR4-RAM, 16 GB eMMC
Standard Interfaces computer board	HDMI 2.0, USB 3.0, USB-C, Gigabit Ethernet/LAN RJ45, UART, I2C, SPI, etc.
Data interfaces	LTE modem or Ethernet/LAN (optional) Funkwerk Mobility Platform serves as a central data hub and broker, seamlessly integrating third-party platforms and diverse data sources that provide public transport, intermodal transport, or tourist information

ACCESSORIES

Static information sign	Information plates with QR code/Braille
Pigeon deterrence	Spike tapes (optional)

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