

ELBTUNNEL HAMBURG

“In successful cooperation with the company CRYZAL the Tunnelbetrieb Hamburg performs a research project in order to use newly developed LED modules for Safety Base Plates as replacement for yellow markings under difficult weather conditions.”

Jörg Trost, Technical specialist
Traffic Telematics Systems

LUMIBOX



LUMIBOX is the ideal LED-Module to **replace temporary paint marking**, which could be difficult to apply on wet roads or specific road surfaces. This LED-Module can be **placed in the base plate of safety beacon systems**, thereby a marking light chain can be reproduce, to better guide drivers through road turnings, road works, etc.

■ APPLICATIONS



Road works



■ DETAILS

- The light intensity of the LEDs can be adapted to the environment thanks to a light sensor.
- 5 LUMIBOX can be connected in a row with a cable, all power supplied by only one external battery.
- Thanks to an external control box it is possible to switch from external to internal battery, in case the external battery is disconnected or empty.
- The LED-module has an internal battery, which allows full operating autonomy of the module.
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■ ADVANTAGES

- Around **70 hours autonomy** in a fully charge state (may vary depending on the light intensity).
- Easy transportation thanks to the practical carrying handle.
- **Excellent visibility by day and night time.**
- The LED-module has a system that **smoothest short brightness fluctuations** and which is able to **adapt itself to the different light conditions.**



■ TECHNICAL INFO

Mechanical

MATERIAL	UL94V0 polyurethane resin body
DIMENSIONS	Length: 16 cm / Width: 13 cm / Height: 16 cm
WEIGHT	8 kg
MOUNTING	In the safety base plate of roadworks beacons

Optical

OPTICAL PRINCIPLE	3 LED
LED-TYPE	1 Watt -Rebel LED
OPTICAL EFFICIENCY	By night: 20 lx from 1 m distance By day: 400 lx from 1 m distance
LIGHT MODE	continuous mode
COLOURS	Amber (other colours upon request)

Elektricity

POWER STORAGE	2 Batteries 12VDC-5Ah - 220VAC-charger - Plug on external Battery possible
CHARGE TIME	ca. 12 hours
OPERATING LIFE	around 70 hours (depending on the used light output)

Quality

MECHANICAL RESISTANCE	IK10
IP	IP68
WARRANTY	1 year under normal conditions of installation and use