

iR-HDPLC — Intelligent Router for Outdoor Applications

iR-HDPLC

INTELLIGENT ROUTER



Developed for use in street lighting and lighting in the vicinity of buildings, the iR operates with a standardized High Definition Power Line communication and enables together the IP and LON communication for e.g. CCTV's, Voice Guidance Systems, Emergency products, Advertising panels, or for WiFi access points etc.. Individually parametrizable and updateable, the router provides all functions of a modern communication backbone and ensures a high degree of investment protection. In Smart City applications for the future or enhanced communication in buildings. The reliability of the network will be ensured as the HD technology includes automatic repeating as a standard part of the definition.

Further Advantages

- Consumption: 3,3 W
- Interoperable FTTH / HD-PLC Router acc. the communication channels EN14908.2 and .8
- High Definition Power Line communication using the broadband between 2 MHz and 28 MHz
- High-Speed Communication up to 240 Mbit/s including 2,5Mbit independent LonWorks-channel.
- Up to 10 self-organized Repeaters to overcome large distances for communication.
- 5 years warranty

Typical applications

- Street lighting and lighting in the vicinity of buildings
- Car parks, bus stops and railway stations
- Company premises, warehouses
- Sports facilities
- Buildings where FTTH and high-speed IP communication is needed without any additional cable
- Smart City application they can use the benefit of IP and LON communication

PRELIMINARY

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iR-HDPLC

Technical Details

Electronic Light Controller	186803
Type	iR-HDPLC
Input voltage	85V AC – 305V AC
Mains frequency	50 / 60 Hz (+1 % / -2 %)
Power consumption	3,3W, 6,25VA
Communication	Via the High Definition Power Line in acc. with IEEE 1901
Band	2 MHz – 28 MHz
Coding	OFDM
Data transfer (USA)	ANSI CEA 709.1, ANSI CEA 709.2
Data transfer (Europe)	EN 14908-1, EN 14908-8
Galvanic isolation	isolation of control outputs for DALI/1-10V/PWM driver
Programmable	Yes
Configurable parameters	Yes
Connection	1,5 mm ²
Firmware update / Parameter config.	Via High Definition Power Line
Operating temperature range tc	-25°C ... +70°C
Storage temperature range	-25 to +85 °C
Humidity	90% non-condensing
Surge voltage protection	4 kV / 1.2 / 50 in acc. with DIN EN 61037
Degree of protection	IP20
Casing material	PC
Dimensions (W x H x D)	(160 x 99 x 58) mm
Weight	250g
Country of origin	Made in Germany

Lonmark®

In accordance with the mentioned ANSI and EN specifications, the router is fitted with both interoperable network interfaces, which is essential for setting up heterogeneous networks into existing IP/FTT installations. The definition of the exact data structure for data transfer purposes is fixed in accordance with the Lonmark definition. Controllers that are manufactured based on EN14908.1, -2 and -8 are in line with this standard, even if produced by different manufacturers, they can be integrated into a common network. All communication data are completely routable to other medias, like Wireless or Narrow Band PL.

The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification. Please find further detailed information at www.vossloh-schwabe.com.



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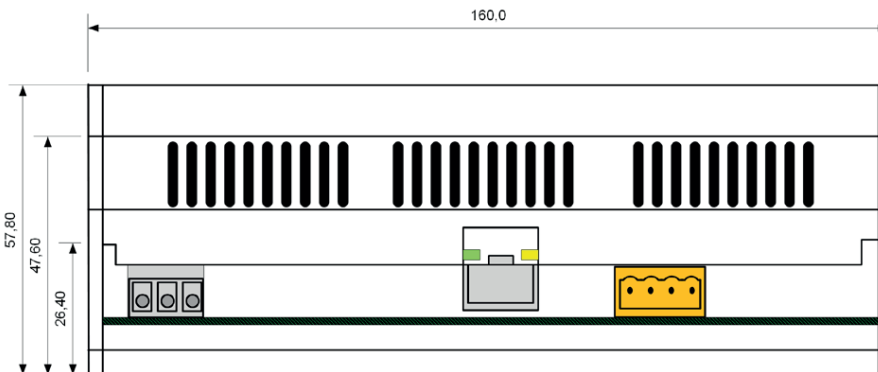
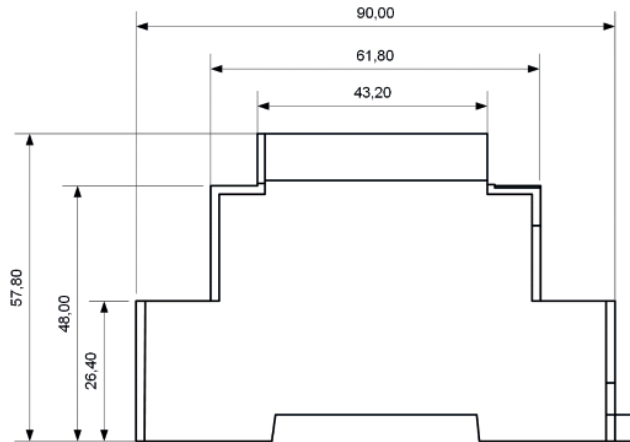
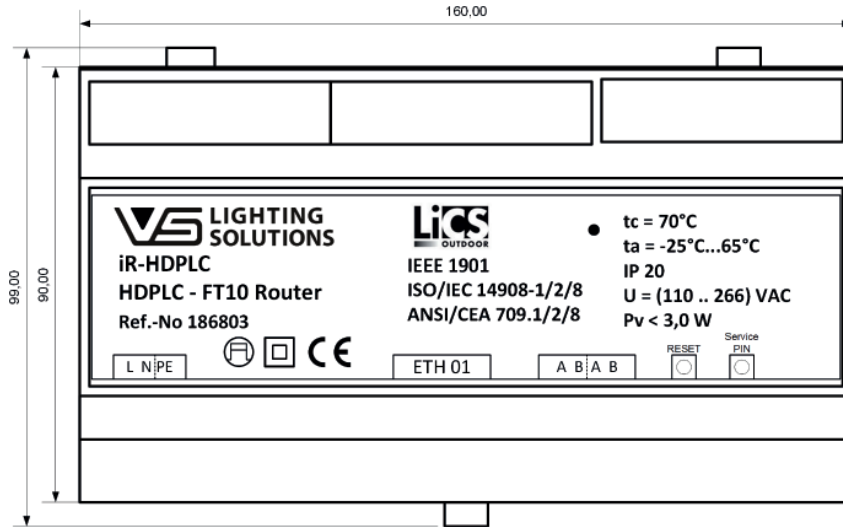


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Dimensions (mm)



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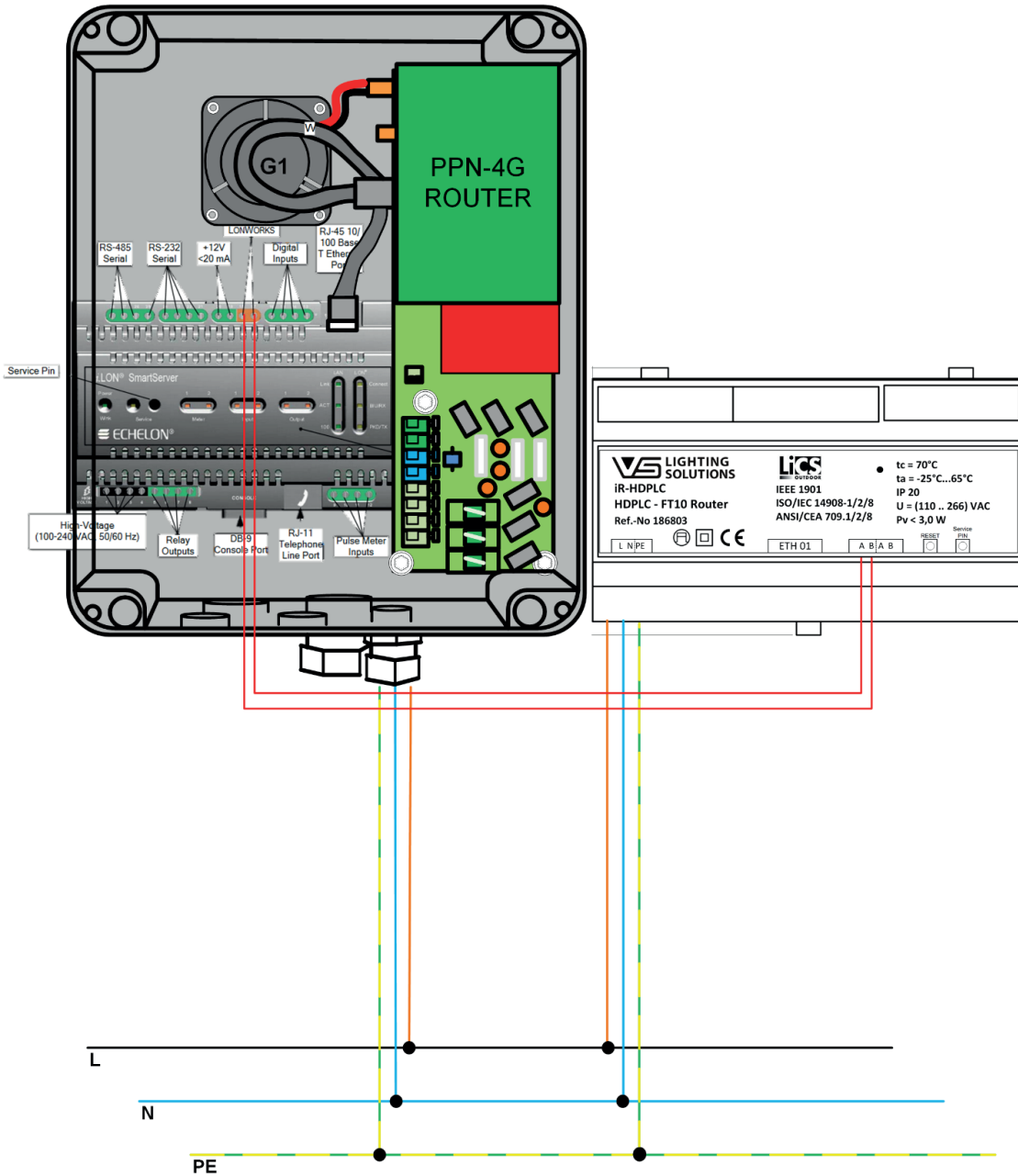


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iR-HDPLC

Product combination for Smart City applications: iDC-4R-FTT and iR-HDPLC Router
Seamless integration into the iLIC intelligent Light Configuration Server.



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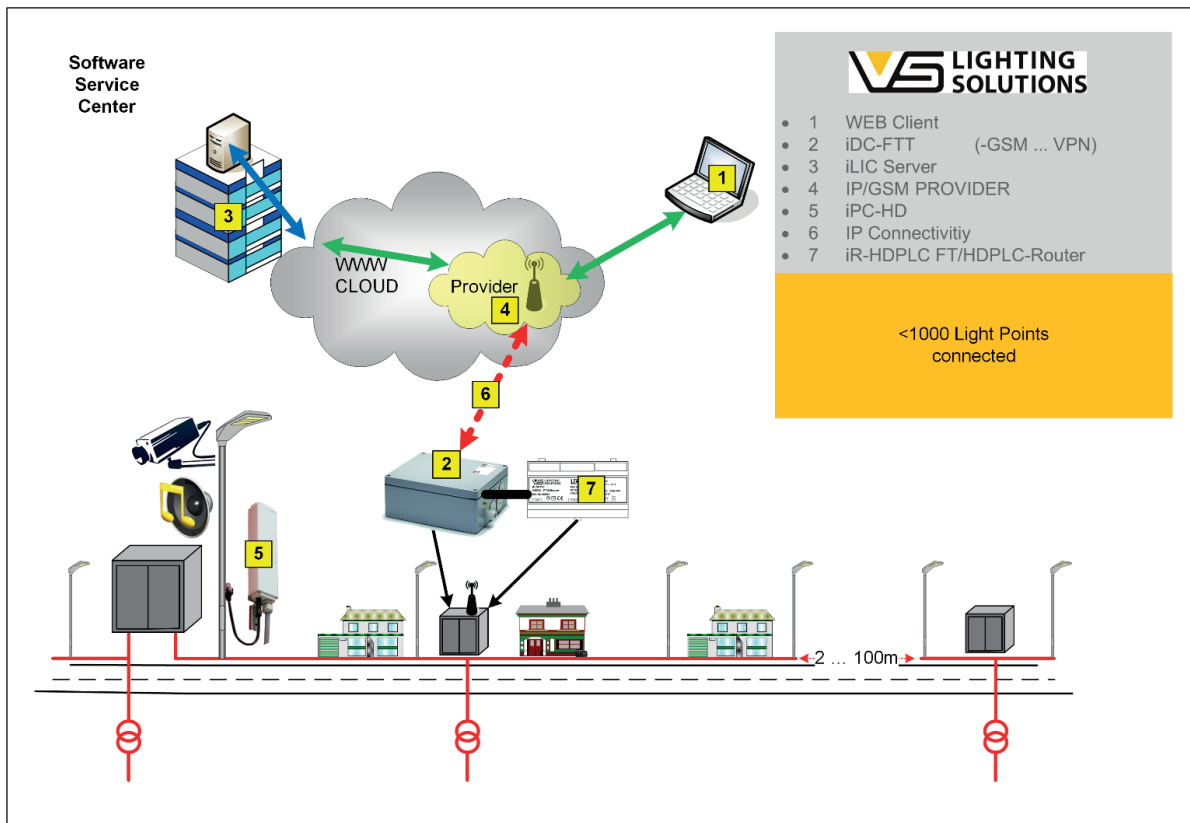
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Overview of a typical application for IP data and LON control communication



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