

iPC-HD

intelligent Pole Luminaire Controller with High-speed Communication

For efficient control of urban and street lighting and many Smart City applications

- ✓ High-definition powerline communication up to 240 Mbit/s
- ✓ IP and LON communication are provided
- ✓ IP65



The interoperable iPC-HD luminaire controller is designed for use in urban and street lighting.

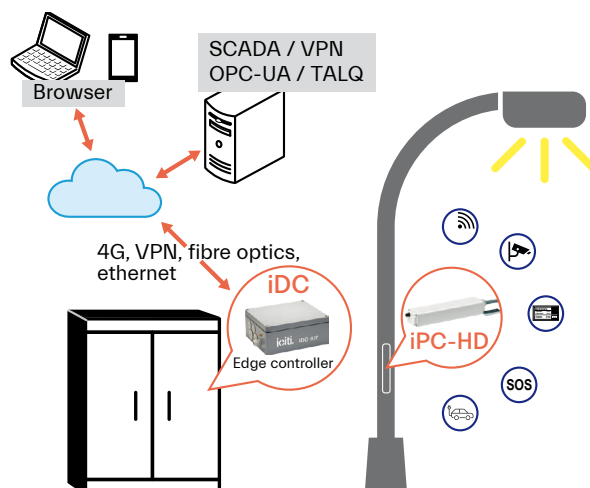
iPC-HD operates with a standardised high-definition powerline for communication purposes and enables control of electronic operating devices fitted with a 1-10 V, PWM or DALI interface. The usage of devices with ethernet-connector via TCP/UDP/IP, like CCTVs, voice guidance systems, emergency products, advertising panels, support for WiFi access points etc. is possible.

The iPC-HD has to be mounted into the luminaire pole without need of junction box thanks to IP65 casing. In addition to the iPC features this controller can be used to forward data for other Smart City applications, by the use of existing infrastructures and therefore facilitate the integration of a wide range of functionalities in a single communication channel.

Any external sensor can be added thanks to dry-contact input.

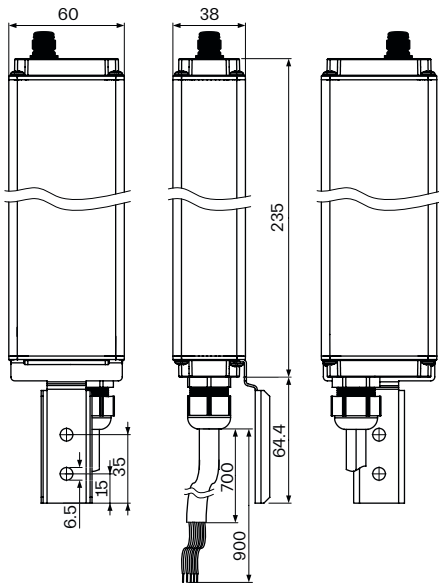


For remote control with central management

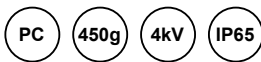


Dimensions (mm)

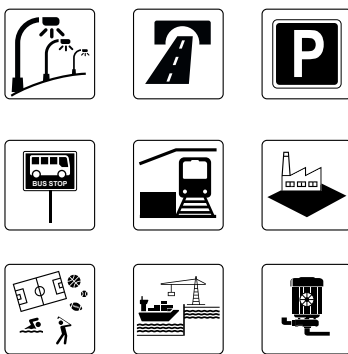
L 300 mm / W 60 mm / H 38 mm



Preassembled oilflex-sheathed cable (classic 100):
8 x 1 mm² with ferrule on bare end of core on connection side.



Typical application fields



IPC-100-HD	
Ref. No.	200011
Mains voltage/frequency	85-305 V AC, 50/60 Hz
Power consumption	~ 3 W
Communication	via high-definition powerline in acc. with CENELEC 50065-1 / IEEE 1901, class 2 acc. to 2000/299/EC
Band / Coding	2-28 MHz / OFDM
Standard compliance	EN 14908-1, ANSI/CTA 709.1 and EN 14908-8, ANSI/CTA 709.8
LonMark® OLC profile	Interoperable, use of mandatory network variables and configuration parameters, repeatable
Galvanic isolation	Isolation of control outputs for 1-10 V / PWM / DALI operating device
Switching current	10 A resistive load → 100,000 switching cycles 6 A PF = 0.7 inductive load → 15,000 switching cycles 2.5 A PF = 1 LED driver → 25,000 switching cycles For any further load please ask for support
Control output	2 x for connecting several luminaires; short-circuit proof, switchable 1-10 V, PWM or DALI interface; addressing range of the DALI interface: max. 4 ballasts
Firmware update	via high-definition powerline
Control parameters	Switch on and off, dimming
Operating temperature range	-25 to +70 °C
Storage temperature range	-25 to +85 °C
Humidity	90% non-condensing
Connection cable	1 mm ² , usable lead length: 900 mm
Accessories	Ethernet connection cables Ref. No. 200029: 2 m length or Ref. No. 200030: 7.5 m length

Functions

- ✓ Dimming ON/OFF
- ✓ Maintenance factor function to ensure a constant luminous flux over the lamp lifetime.
- ✓ Using the control input (e.g. with a push button or motions ensor) the system can be switched to a certain lighting level for a freely configurable period of time.
- ✓ Connection of external IP devices like CCTV, emergency call, loudspeaker, Wifi access points...

Measured data

- ✓ Voltage
- ✓ Current
- ✓ Power factor
- ✓ Power consumption
- ✓ Energy
- ✓ Temperature
- ✓ Operating hours
with an accuracy of better than 1%

For more detailed information please visit our website
www.icitech.com/products/ipc-hd/

