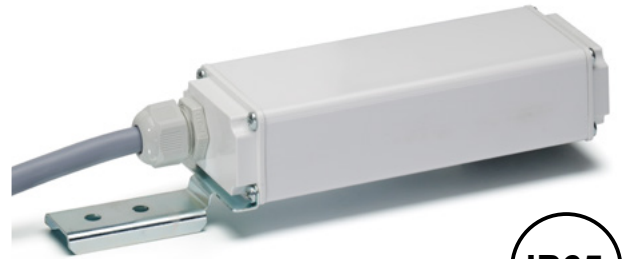


iPC

intelligent Pole Luminaire Controller

For efficient control of urban and street lighting

- OLC LonMark® profile
- Can address max. up to 4 operating devices
- Integrated 1 or 2 relays
- Stand-alone or remotely controlled
- Individually programmable and updateable



The interoperable iPC luminaire controller is designed for use in urban and street lighting. It controls magnetic and electronic operating devices fitted with a 1-10 V or DALI luminaire control interface via standardised powerline communication.

iPC is designed for installation into the pole without need of any junction box thanks to IP65 protection.

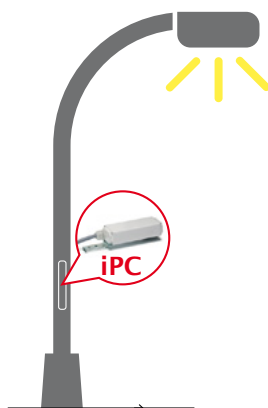
With the iPC, environmental factors such as reduction of energy consumption and thus lower CO₂ emissions are taken into account as well as the opportunity to adapt the light level according to the needs.

iPC detects failures and follows consumption in remote-controlled version. Up to 10 dimming levels with individual dimming sequences in stand-alone mode are possible.

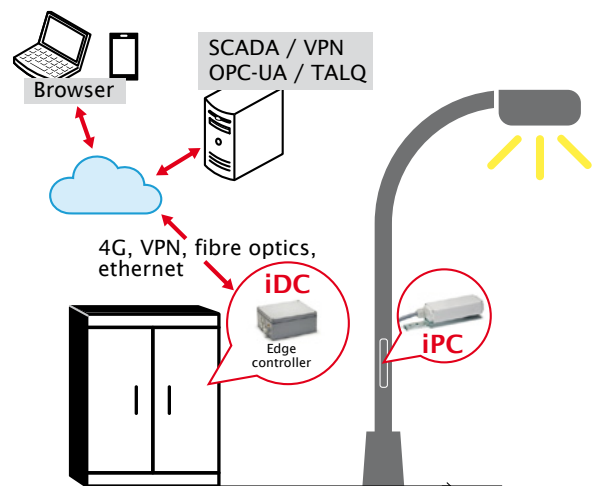
Any external sensor can be added thanks to dry-contact input.



For stand-alone operation
without central management

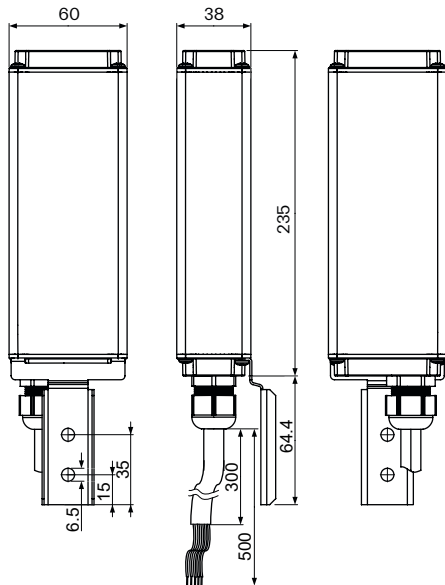


For remote control
with central management

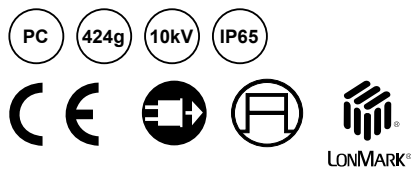


Dimensions (mm)

L 300 mm / W 60 mm / H 38 mm



Preassembled oilflex-sheathed cable (classic 100):
8 (for 1 relay) or 9 (for 2 relays) x 1 mm²
with ferrule on bare end of core on connection side.



	iPC-100-1R (1 relay)	iPC-100-2R (2 relays)
Ref. No.	200049	200051
Mains voltage/frequency	110-230 V AC (± 10%), 50/60 Hz	
Power consumption	1-3 W	
Communication	via powerline in acc. with CENELEC 50065-1, class 2 acc. to 2000/299/EC	
Band	primary band (C) 125-140 kHz, secondary band (B) 95-125 kHz	
Standard compliance	EN 14908-1, ANSI/CTA 709.1 and EN 14908-3 , ANSI/CTA 709.2	
LonMark® OLC profile	Interoperable, use of mandatory network variables and configuration parameters, repeatable	
Galvanic isolation	No electrical isolation from input to output (as soon as the electronic device is connected to the iPC, the control input ceases to be electrically isolated)	
Optional plug-in	Audio frequency ripple control receiver	
Filter frequencies	100 Hz ... 1.7 kHz	
Switching current	4 A (at λ = 0.8)	
Control output	short-circuit proof, switchable 1-10 V, PWM or DALI interface (1200 Bit/s, serial asynchronous, 8 mA voltage level 16 V); addressing range of the DALI interface: max. 4 ballasts	
Power reduction relay	----	1 x to address an electronic power reduction relay (control current ≤ 10 mA, not protected against short-circuiting)
Firmware update	via powerline	
Control parameters	Switch on and off, dimming	
Operating temperature range	-25 to +80 °C	
Storage temperature range	-25 to +85 °C	
Humidity	90% non-condensing	
Connection cable	1 mm ² , usable lead length: 500 mm	

Typical application fields



Functions

- Dimming ON/OFF
- Delayed switching off or early switching on of the lighting in the closer area of pedestrian crossing zones for safety reasons.
- 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.
- Intelligent switching time dimming for stand-alone operation (up to 10 dimming levels and sequences).

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.iciti.de/en/ipc-luminairecontroller/

