

iCONTROL 400, 401

iControl 400 (401) is a multipurpose device to enable use of compatible luminaires, luminaire groups and sensors in iLUMNET intelligent lighting system. Device supports most common interfaces for vast array of commercial luminaires and sensors. Connected devices communicate wirelessly with other iLUMNET smart devices and iMASTER unit in the location.

One iCONTROL can control group of multiple luminaires being very efficient solution especially when upgrading existing installations. iCONTROL supports 1-10V and DALI control interfaces. Device can drive external relay typically used to switch off power with 1-10V controlled luminaires or to control relays in control cabinet to switch lights on/off.

iCONTROL can utilize output from common commercial sensors, like twilight and motion detectors. Device reads the sensor output and controls the smart lighting system behavior as defined in iLUMNET server.

iCONTROL 401 has additional energy measurement functionality. It measures and reports energy consumption of the connected luminaires to monitor consumption and detect failures. Reporting functionalities will be expanding with upcoming iLUMNET SW updates.

Key features

- SRD radio communication within iLUMNET lighting system
- 1-10V and DALI control interface
- Control of external relay
- User of commercial sensors or switches

Additionally in iCONTROL 401

- Energy consumption measurement and reporting



Technical Properties

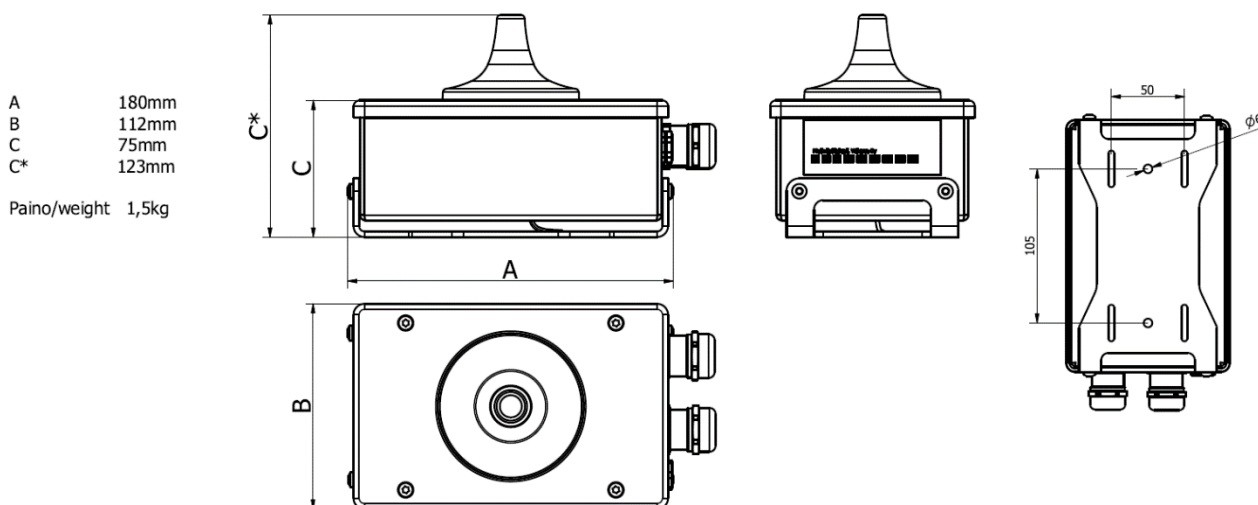
iCONTROL 400, 401	
Connections	Mains Supply voltage for the smart control unit. Supply voltage feed through to luminaires, when energy consumption measurement is used. Sensors Detection voltage (0/230 VAC) from sensor output. DALI / 1-10V / relay control interface DALI or 1-10V + relay control. Interface mode is selected via server settings. Wiring Two pcs of cable feed through, wire connectors inside chassis.
Supply voltage	230 VAC \pm 10 % / 50 Hz
Surge protection	20kA current spike. IEC/EN 61643-11, Type 2/Class II. ANSI C136.2/IEEE C62.41.2 Class C
Operating temperature	-40 ... +60 °C (ambient)
Chassis	Aluminum, painted (RAL9003) and anodized (clear) / IP66
Dimensions (w x l x h mm)	112 x 178 x 121

Subject to change without prior notice.

Mounting	Screw fastening, pole mounting band
Radio	SRD 863 – 870 MHz, std. ETSI EN300 220-1 Fixed external antenna (option for antenna connection)
DALI control	16 VDC signal level 100 mA current limiting Controls up to 20 driver units
1-10V control	Current sourcing max. 20 mA Maximum cable length 400m with 2,5mm ² wire (NOTE1)
Relay control	Control voltage 16 V DC Control signal max. load 1 W
Sensor interface	Detection signal from sensor 0 / 230 VAC
iCONTROL 401	
Energy consumption measurement	Maximum supply current 10 A Measurement support with VP SW updates

NOTE1: Max length extended for applications with total current drain < 20mA.

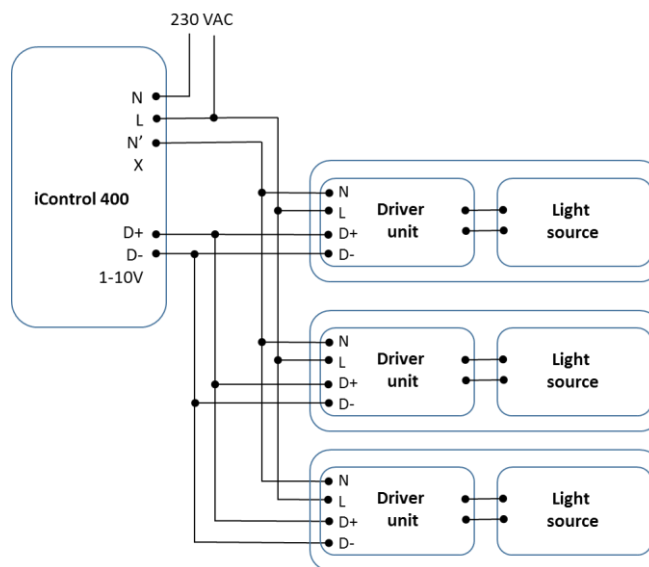
Mechanical dimensions



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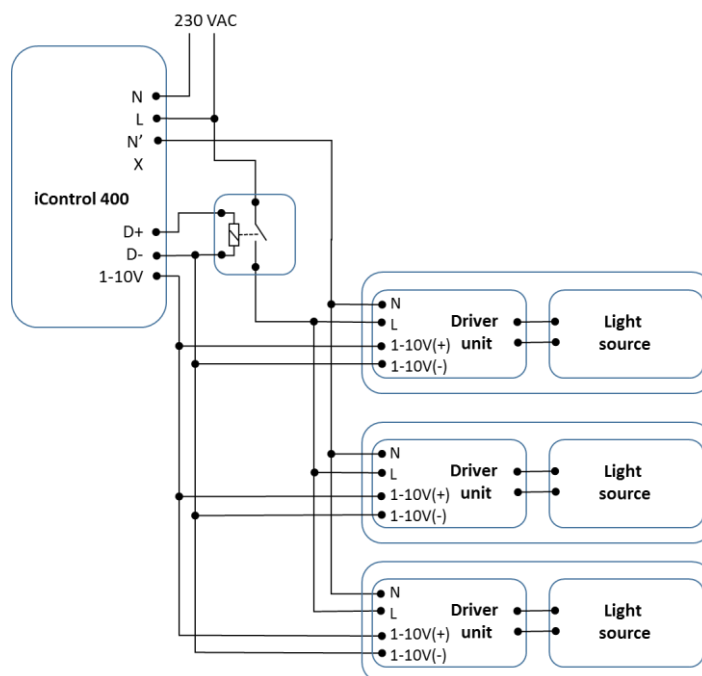
Application examples

Wiring diagram for luminaires with DALI interface



Note: Power supply is not routed through control unit, when energy consumption measurement is not used.

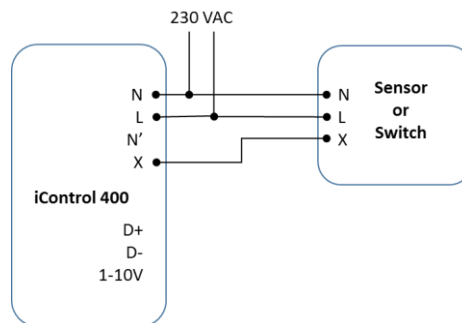
Wiring diagram for luminaires with 1-10V interface



Note: Power supply is not routed through control unit, when energy consumption measurement is not used.

Subject to change without prior notice.

Wiring diagram for commercial sensor



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