

# 1. LUD12-IQ

**Universal 230 VAC light driver**



|               |                          |
|---------------|--------------------------|
| Model number: | <b>LUD12-IQ</b>          |
| Connects to:  | <a href="#">LD-P4-IQ</a> |
| Mounting:     | DIN rail, 1M, 18 mm      |
| Dimensions:   | 18 × 63 × 87 mm          |

## 1.1. Applications

- Dimming all 230 VAC dimmable lights

## 1.2. Features

- Automatic load detection
- Electronic overload protection
- Over-temperature shutdown

## 1.3. General description

Activation takes place from the [LD-P4-IQ](#). The output voltage is adjusted from 0-100% depending on

the [LD-P4-IQ](#) command. The activation terminals X1/X2 in the LUD12 are isolated from the mains voltage by an optocoupler. Automatic load detection, electronic overload protection and over-temperature shutdown are active and independent from activation.

## 1.4. Technical specifications

|                                  |                                                    |
|----------------------------------|----------------------------------------------------|
| Supply voltage                   | 230 VAC                                            |
| Output power:                    |                                                    |
| Incandescent lamps 230V (R)      | 400 W                                              |
| Halogen lamps 230V (R)           | 400 W                                              |
| Inductive transformers (L)       | 400 W                                              |
| Capacitive transformers (C)      | 400 W                                              |
| Dimmable energy saving lamps ESL | 400 W                                              |
| Dimmable 230V LED lamps          | 400 W                                              |
| Parameters for PWM activation:   |                                                    |
| Frequency:                       | 100Hz                                              |
| Duty cycle:                      | 0 (= OFF) linear up to 90% (= full output voltage) |
| Level:                           | 10-24 volts (e.g. PLC output)                      |
| Activation current:              | 1mA (10V) to 3mA (24V)                             |
| Connection polarity:             | X1 = +, X2 = - (GND), polarity reversal protection |
| Isolation:                       | by optocoupler                                     |

## 1.5. Terminals

|                 |           |           |                            |                                                                                       |                               |
|-----------------|-----------|-----------|----------------------------|---------------------------------------------------------------------------------------|-------------------------------|
| LD-P4-IQ common | <b>X1</b> | PWM input | Light output               |  | Lamp live                     |
| LD-P4-IQ output | <b>X2</b> |           | Light power supply live    | <b>L</b>                                                                              | Lights power supply           |
|                 |           |           | Light power supply neutral | <b>N</b>                                                                              | Neutral power supply and lamp |