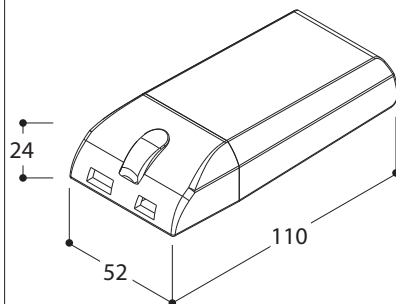


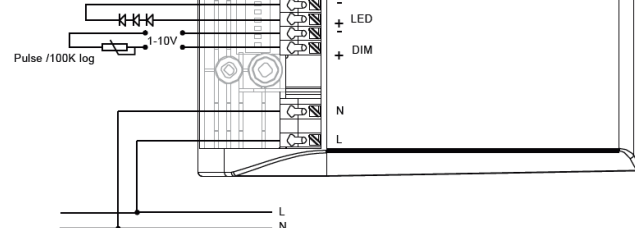
ref 930578

name POWERLED CONVERTOR 1-20W 700mA DIMMABLE 1-10V



Wiring diagram

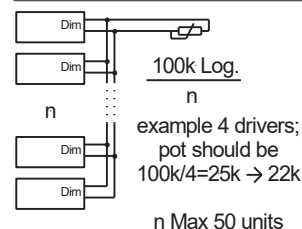
The maximum secondary wire length is 10mtr (at max. power)

Factory preset to 700mA  
output voltage: 6 - 42 Vf

ONLY REMOVE RESISTOR IN CASE OF DIMMING

DIM-input can be controlled with:  
a standard 1-10V controller (range 0-100%),  
a 100K potentiometer (range 0-100%) and  
a pulse switch (range 3-100%). A short pulse switches the LEDs on or off.

When using more drivers on one dimmer (pot.meter only):

**Unexpected behaviour when using 1-10V controller system:**

When controlling the driver with a 1-10V system it can occur that the 1-10V controller delivers (or allows) a spike that is higher than 12V. The spike triggers the driver in to 'pulse switch mode'.

This will result in unexpected and unintended behavior of the LEDs.

In case of symptoms like these, it is sufficient to clamp the output of the control system with a 10 or 12V zener diode. (cathode connected to the positive)

**Always disconnect the mains of the converter before plugging or unplugging the LEDs !**

## Technical data

|                                     |                              |
|-------------------------------------|------------------------------|
| Rated supply voltage                | 220-240 Vac                  |
| Input voltage                       | 180-240 Vac<br>150-275 Vdc * |
| Mains frequency                     | 50/60 Hz                     |
| Output current tolerance            | 5 %                          |
| 100 Hz ripple current at full load  | <1 %                         |
| Power factor at full load           | 0.97C                        |
| Standby power                       | 350 mW                       |
| Nominal line current at 240 Vac     | 110 mA                       |
| Dimming method                      | linear                       |
| Minimum dim level                   | 15 mA - off                  |
| Non-volatile memory                 | Yes                          |
| Startup time                        | < 1s                         |
| Warm up time to 95% of light output | < 2s                         |
| Output isolation                    | SELV                         |
| Surge protection (diff. / comm.)    | 2 kV / 6 kV                  |
| IP classification                   | IP 20                        |
| Circuit lifetime                    | 50,000 hrs at Tc max.        |
| Case dimensions                     | 110 x 52 x 23.5 mm           |

\* External DC fuse is required

## Inrush current

|                                     |  |
|-------------------------------------|--|
| Mains max. peak inrush at full load | 0.200A per driver on phase 60° (average starting angle)*<br>0.327A per driver on phase 90° (worst case starting angle)*<br>0.162A per driver on phase 60° (average starting angle)**<br>0.170A per driver on phase 90° (worst case starting angle)** |
|-------------------------------------|--|

\*\* Tested at 240 Vac 1 driver connected, with TTI HA1600A analyzer.

\* Tested at 240 Vac 10 drivers parallel connected, with TTI HA1600A analyzer.

## Maximum number of drivers on automatic circuit breakers

| Automatic circuit breaker type | C10 | C13 | C16 | C20 | B10 | B13 | B16 | B20 |
|--------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| L05011i2 / L05011i3 / L05011i4 | 85  | 110 | 136 | 170 | 85  | 110 | 136 | 170 |