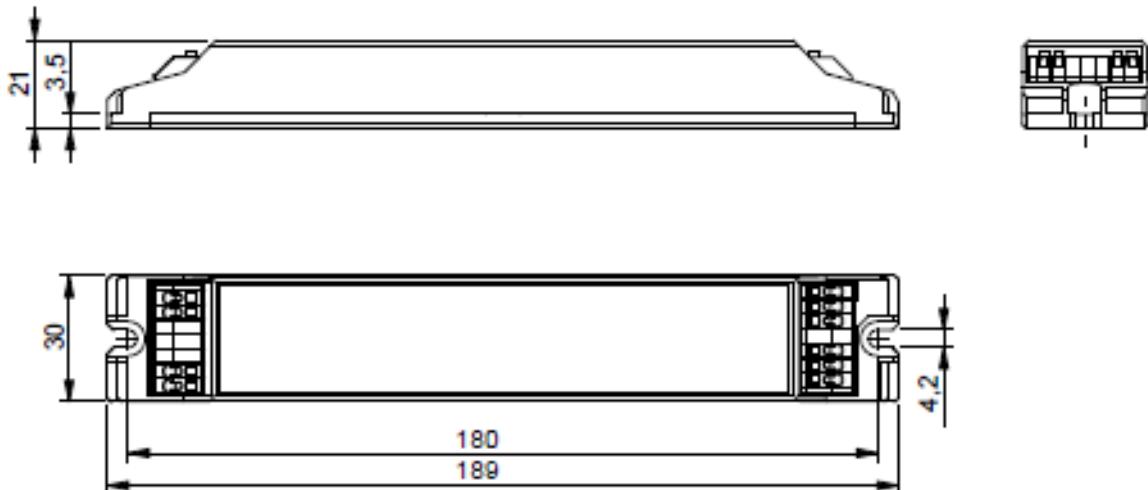


# OPTOTRONIC® OTi DALI DIM LI

## Dimmer for LED-Modules in Combination with Power Supply OPTOTRONIC®

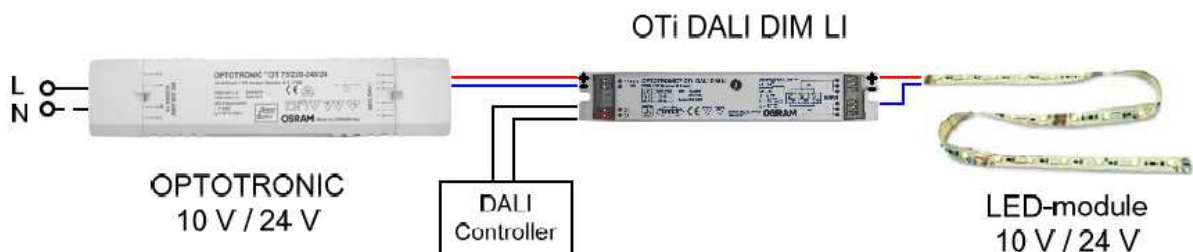
Technical information  
issue: February 2011  
subject to change without notes

### Design and dimensions (All dimensions in mm)



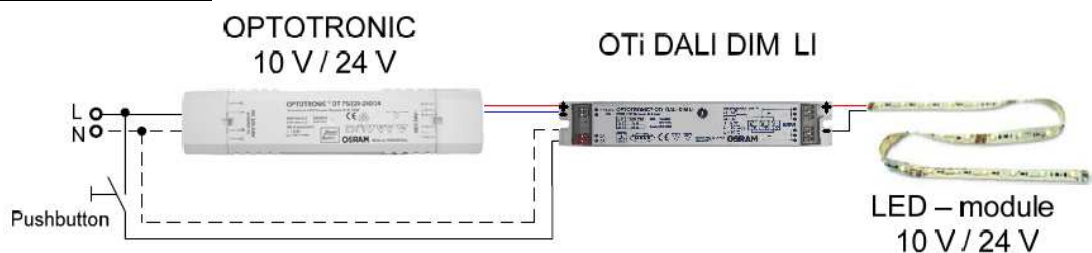
### Wiring diagram

#### DALI Function:



#### Touch DIM Function:

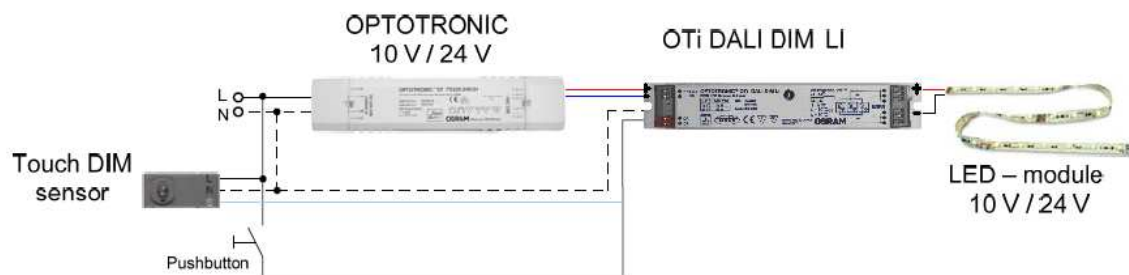
##### With Touch DIM Function:



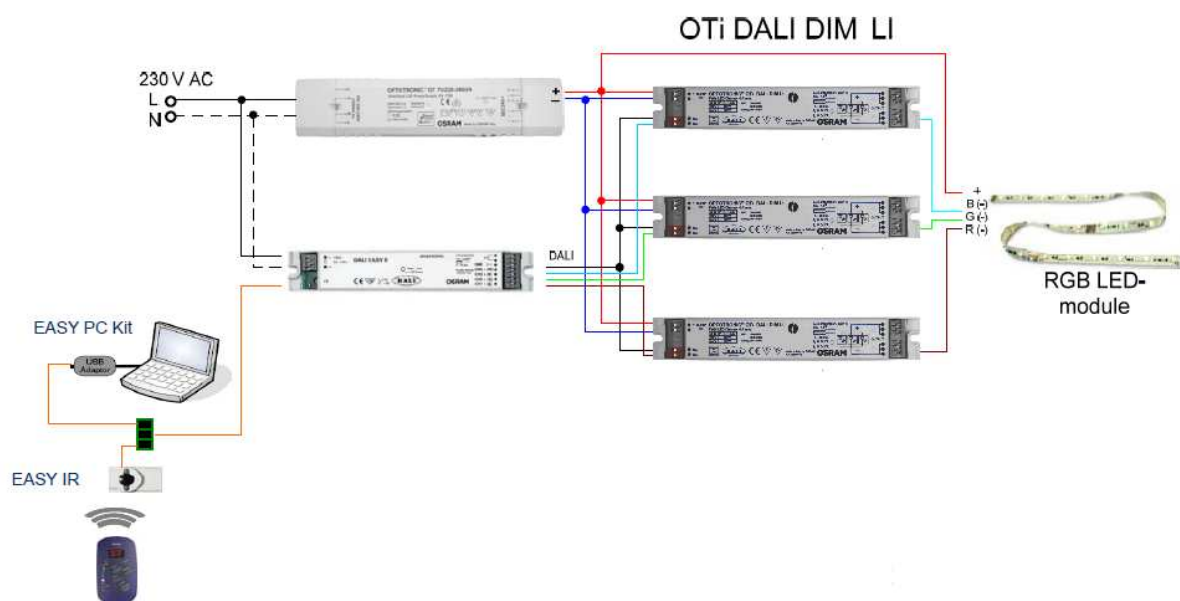
##### With Touch DIM Sensor

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## RGB Function:



## Technical data

|                                          |                                                                                                                                                                                                            |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Designation</b>                       | OTi DALI DIM LI                                                                                                                                                                                            |
| <b>For LED Modules</b>                   | With respect to the output conditions:<br>LINEARlight, LINEARlight Flex, LINEARlight PowerFlex, BACKlight, EFFECTlight<br>and appropriate 10 and 24 V modules                                              |
| <b>Supply input voltage range nom.</b>   | 10 – 24 V DC                                                                                                                                                                                               |
| <b>Supply input voltage range max</b>    | 9.0 – 26.4 V DC                                                                                                                                                                                            |
| <b>Supply input current max</b>          | 4 A                                                                                                                                                                                                        |
| <b>Dimming Interface</b>                 | DALI with Touch DIM function (1-switch-dimm-function), interface is protected against<br>polarity reversal and overvoltage (ma. 500 V)<br>SELV equivalent isolation of input and output vs. DALI interface |
| <b>Dimming Mode</b>                      | PWM                                                                                                                                                                                                        |
| <b>Operating Frequency</b>               | 390 Hz                                                                                                                                                                                                     |
| <b>Dimming Range</b>                     | 0,1 – 100%                                                                                                                                                                                                 |
| <b>Output current max</b>                | 4 A                                                                                                                                                                                                        |
| <b>Output load range</b>                 | 0 – 40 W @ 10 V DC / 0 - 96 W @ 24 V DC                                                                                                                                                                    |
| <b>Power losses min</b>                  | 0,12 W @ 10 V DC / 0,29 W @ 24 V DC                                                                                                                                                                        |
| <b>(dimming rate = 1% - no load):</b>    |                                                                                                                                                                                                            |
| <b>Power losses max</b>                  | 1,10 W @ 10 V DC / 1,25 W @ 24 V DC                                                                                                                                                                        |
| <b>(dimming rate = 95% - full load):</b> |                                                                                                                                                                                                            |
| <b>Safety</b>                            | EN 61347                                                                                                                                                                                                   |
| <b>Performance</b>                       | EN 62384                                                                                                                                                                                                   |
| <b>Radio Interference</b>                | EN 55015                                                                                                                                                                                                   |
| <b>Immunity</b>                          | EN 61547                                                                                                                                                                                                   |
| <b>Temperature Range</b>                 | -20 °C to +50 °C                                                                                                                                                                                           |

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|                                        |                                                   |
|----------------------------------------|---------------------------------------------------|
| <b>No-load proof</b>                   | YES                                               |
| <b>Short Circuit Protection</b>        | In combination with OPTOTRONIC power supply       |
| <b>Overload Protection</b>             | Automatic shutoff, reversible                     |
| <b>Overheating Protection</b>          | Automatic shutoff, reversible                     |
| <b>Supply Input Wire Cross Section</b> | 0,50 mm <sup>2</sup> to 1,5 mm <sup>2</sup>       |
| <b>Supply Input Connection</b>         | Push-in Terminal                                  |
| <b>Control Wire Cross Section</b>      | 0,50 mm <sup>2</sup> to 1,5 mm <sup>2</sup>       |
| <b>Control Connection</b>              | Push-in Terminal                                  |
| <b>Output Wire Cross Section</b>       | 0,50 mm <sup>2</sup> to 1,5 mm <sup>2</sup>       |
| <b>Length of Output Wiring</b>         | 10 mt in combination with OPTOTRONIC Power Supply |
| <b>Output Connection</b>               | Push-in Terminal                                  |
| <b>Dimensions</b>                      | 189.6 mm x 30.0 mm x 21.0 mm                      |
| <b>Fixing Screws</b>                   | Ø 4 mm                                            |
| <b>Approvals</b>                       | CE                                                |