

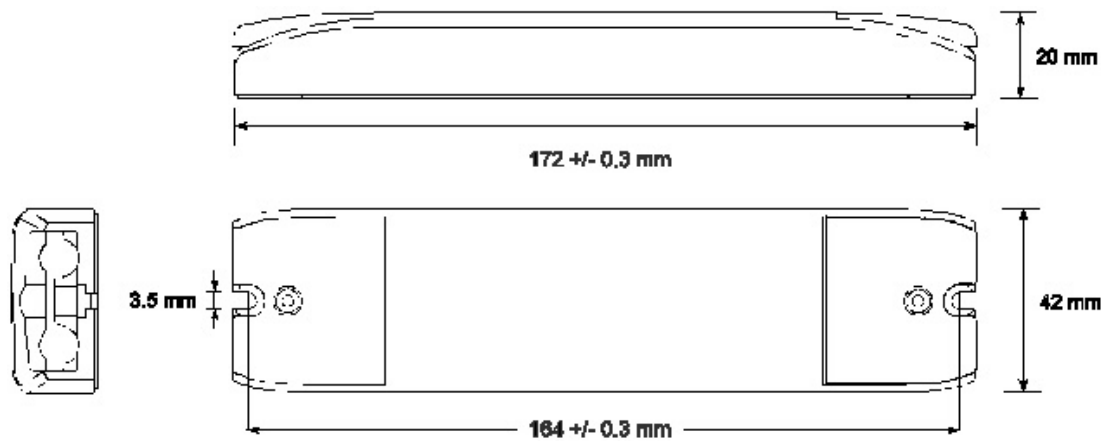
**OPTOTRONIC®**  
**OT DMX RGB DIM**  
**RGB-control for LED-Modules**  
**in Combination with OT Power Supply**

**Technical  
Information**  
Edition: Jan. 2008  
Subject to change

Technical data:

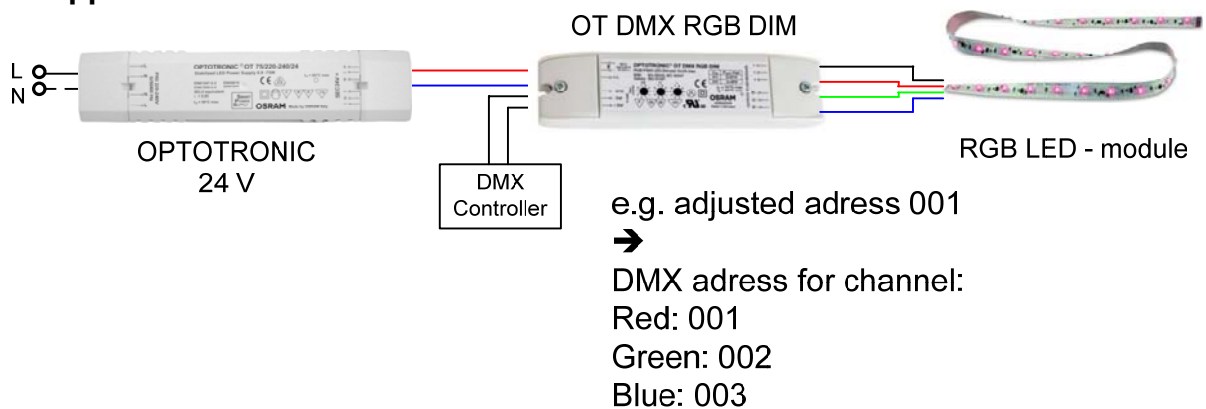
| Reference                                                               | OT DMX RGB DIM                                                                                                                  |
|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| For LED modules:                                                        | With respect to the output conditions:<br>LINEARlight Colormix; LINEARlight Colormix Flex,<br>BACKlight and appropriate modules |
| Supply input voltage range nom.:                                        | 10,5 - 24 V DC                                                                                                                  |
| Supply input voltage range min - max:                                   | 9,5 - 25 V DC                                                                                                                   |
| Supply input current max:                                               | 6,0 A                                                                                                                           |
| Power losses:                                                           | < 4 W                                                                                                                           |
| Control:                                                                | DMX (SELV equivalent)                                                                                                           |
| Protocol specification                                                  | USITT DMX-512A, DMX512 (DIN 56930-2)                                                                                            |
| Electrical specification                                                | ANSI/TIA/EIA-485-A-1998                                                                                                         |
| Galvanic separation                                                     | No, SELV required (acc. to EIA-485)                                                                                             |
| Maximum voltage range (control input) without destruction of the device | -7 – +12VDC                                                                                                                     |
| Start channel assignment                                                | 3 decimal code switches (100/10/1)                                                                                              |
| Dimming modus:                                                          | PWM                                                                                                                             |
| Dimming range                                                           | 0-100%                                                                                                                          |
| Dimming curve                                                           | approximate to EN 60929:2004 E.4.3.7                                                                                            |
| Output current max:                                                     | 2 A for each channel                                                                                                            |
| Output load range:                                                      | 0 - 21 W per channel @ 10,5 V DC / 0 - 48 W per channel @ 24 V DC                                                               |
| Safety:                                                                 | IEC 61347                                                                                                                       |
| Radio interference:                                                     | EN 55015                                                                                                                        |
| Immunity:                                                               | EN 61547                                                                                                                        |
| Protection class :                                                      | II                                                                                                                              |
| Temperature range:                                                      | -20 °C to +50 °C                                                                                                                |
| No-load proof:                                                          | Yes                                                                                                                             |
| Short circuit protection:                                               | Yes, electrically reversible for each channel                                                                                   |
| Overload protection:                                                    | Yes, electrically reversible for each channel                                                                                   |
| Overheating protection:                                                 | Yes                                                                                                                             |
| Supply input wire cross section:                                        | 0,75 mm <sup>2</sup> to 1,5 mm <sup>2</sup>                                                                                     |
| Input wire type                                                         | NYM 3x1,5 mm <sup>2</sup> / H03VV-F2x0,75 mm <sup>2</sup>                                                                       |
| Supply input connections:                                               | 1 pair of screw terminals with covering and strain relief                                                                       |
| Control wire type                                                       | NYM 3x1,5 mm <sup>2</sup> / H03VV-F2x0,75 mm <sup>2</sup>                                                                       |
| Control connections:                                                    | 1 pair of screw terminals with covering and strain relief                                                                       |
| Output wiring cross section:                                            | 0,75 mm <sup>2</sup> to 1,5 mm <sup>2</sup>                                                                                     |
| Outout wire type                                                        | NYM 3x1,5 mm <sup>2</sup> / H03VV-F2x0,75 mm <sup>2</sup>                                                                       |
| Output connections:                                                     | 6 screw terminals with covering and strain relief                                                                               |
| Geometry (l x w x h):                                                   | 172 mm x 42 mm x 20 mm                                                                                                          |
| Fixing screw:                                                           | Ø 3mm or Ø 3.5mm                                                                                                                |
| Approvals:                                                              | CE; cUR <sub>us</sub>                                                                                                           |

### Geometry:

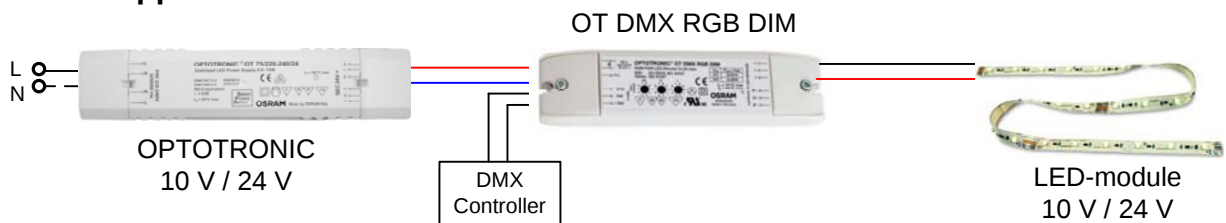


### Circum diagram

#### RGB application:



#### General application:



### Integrated test function:

Function check of the luminaire without a connection of a DALI 512-signal.

Address adjustment 000 → 100 % light output

Address adjustment 901-000 → recall of the dimming values 1 - 100 %