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

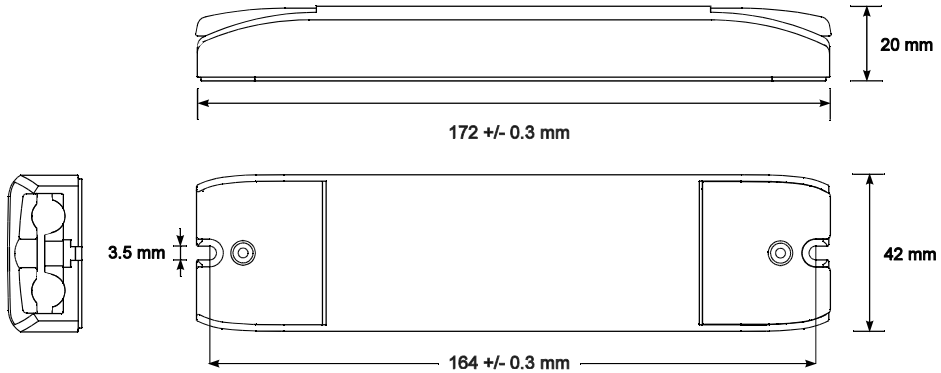
Technical Information
Edition: Jan. 2008
Subject to change

Technical Data:

Reference	OT RGB DIM
For LED modules:	With respect to the output conditions: LINEARlight Colormix LINEARlight, LINEARlight Flex, BACKlight, COINlight, EFFECTlight 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
Control voltage:	1-10 V DC
Control current max:	0,6 mA
Control:	1-10 V controls, potentiometer 100 kΩ lin.
Dimming mode:	PWM
Operating frequency:	350 Hz typ.
Dimming range:	0 - 100 % on each channel
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
Power losses:	< 4 W
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, automatic shutoff, reversible for each channel
Overheating protection:	Yes, irreversible
Supply input wire cross section:	0,75 mm^2 to 1,5 mm^2
Supply input connections:	1 pair of screw terminals with covering and strain relief
Control wire cross section:	0,75 mm^2
Control connections:	4 screw terminals with covering and strain relief
Output wiring cross section:	0,75 mm^2 to 1,5 mm^2
Output connections:	6 screw terminals with covering and strain relief
Lenght of output wiring (sum of input and output):	Depending on OPTOTRONIC power supply
Geometry (l x w x h):	172 mm x 42 mm x 20 mm
Fixing screw:	∅ 3mm or ∅ 3.5mm
Approvals:	CE; $_{c}$**UR**$_{US}$

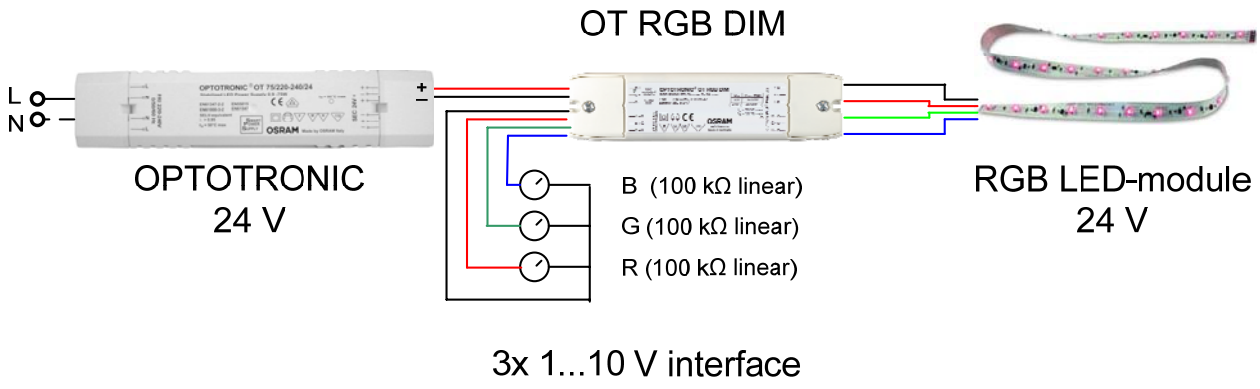
OSRAM

Geometry:

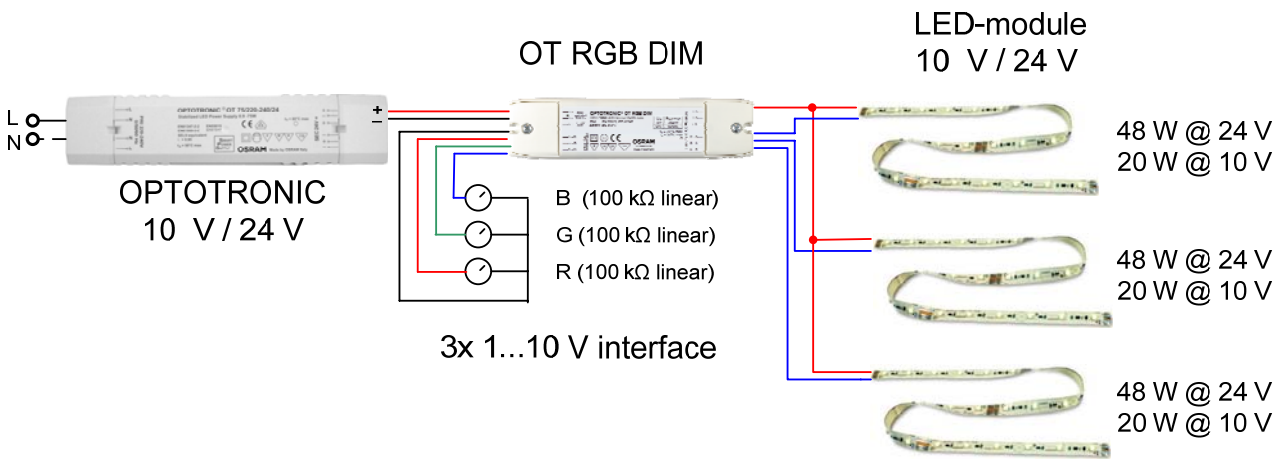


Wiring instructions:

RGB application:



General application:



Note:

- The controlling of the 1...10V-interface for colourmixing can e.g. be realised by a potentiometer, by using special sequencer modules, DALI to 1…10V-converters, DMX to 1…10V-converters or by the respective interface.
- The 1-10V interface have a common cathode.
- On the secondary side there are 3 connection terminals availabel for the anode. They are internally connected, they are only used to offer more installation comfort.
- The control signals have to be SELV-signals.
- Please regard the installation requirements for SELV-signals.
- The OT RGB DIM is a accessory for electronic converters.