

OPTOTRONIC® OT DIM



Dimmer for LED-Modules in Combination with Power Supply

Technical Information

Edition: Nov. 2005

Subject to change

Technical Data:

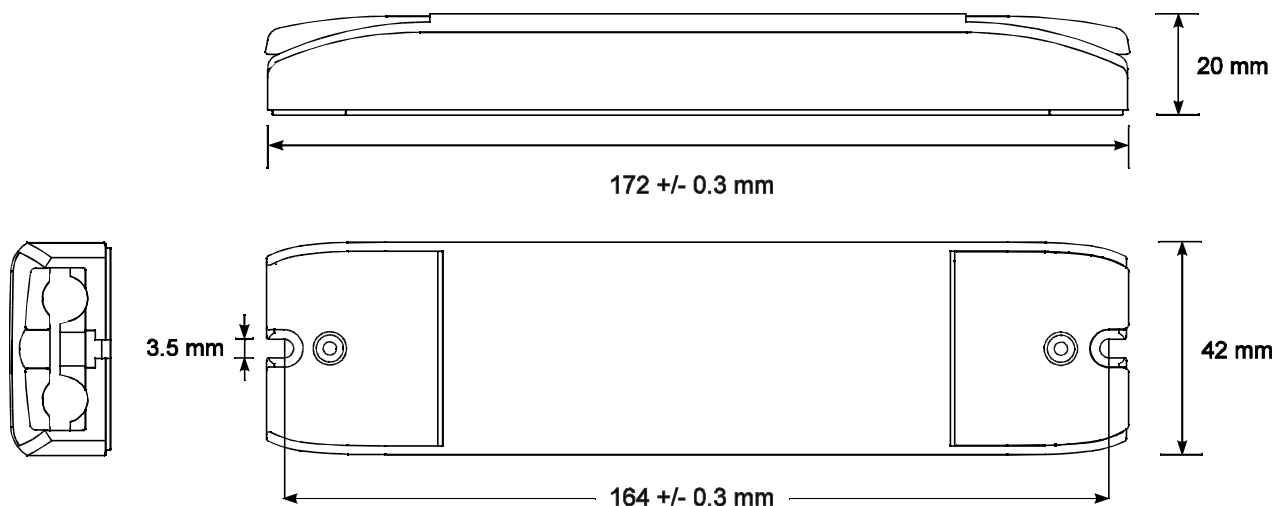
Reference	OT DIM
For LED modules:	With respect to the output conditions: LINEARlight, LINEARlight Flex, BACKlight, COINlight, EFFECTlight and appropriate modules
Supply input voltage range nom.:	10,5 - 24 V DC
Supply input voltage range max:	9,5 - 25 V DC
Supply input current max:	5,3 A
Control voltage:	1-10 V DC
Control current max:	0,6 mA
Galvanic insulation between control, supply and LED side:	3 kVeff (SELV-equivalent)
Dimming mode:	PWM
Operating frequency:	135 Hz typ.
Dimming range:	0 - 100 %
Output current max:	5 A
Output load range:	0 - 52,5 W @ 10,5 V DC / 0 - 120 W @ 24 V DC
Power losses min (dimming rate = 1% - no load):	0,4 W @ 10,5 V DC / 1,2 W @ 24 V DC
Power losses max (dimming rate = 95 % - full load):	3 W @ 10,5 V DC / 4 W @ 24 V DC
Safety:	EN 61046 / IEC 61347-2-2 and IEC 61347-2-11, UL 508 (in preparation)
Radio interference:	EN 55015
Immunity:	EN 61547
Temperature range:	-20 °C to +50 °C
No-load proof:	Yes
Short circuit protection:	In combination with OPTOTRONIC power supply
Overload protection:	Automatic shutoff, reversible
Overheating protection:	Automatic shutoff, reversible
Supply input wire cross section:	0,75 mm ² to 1,5 mm ²
Supply input cable:	NYM 3x1,5 mm ² / H03VV-F2x0,75 mm ²
Supply input connections:	1 pair of screw terminals with covering and strain relief
Control wire cross section:	0,75 mm ² to 1,5 mm ²
Control cable:	NYM 3x1,5 mm ² / H03VV-F2x0,75 mm ²
Control connections:	1 pair of screw terminals with covering and strain relief
Output wiring cross section:	0,75 mm ² to 1,5 mm ²
Output cable:	NYM 3x1,5 mm ² / H03VV-F2x0,75 mm ²
Lenght of output wiring:	Dependent on OPTOTRONIC power supply
Output connections:	2 pairs of screw terminals with covering and strain relief
Geometry (l x w x h):	172 mm x 42 mm x 20 mm
Fixing screw:	∅ 3mm or ∅ 3.5mm
Approvals:	 ;  in preparation cURus

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Geometry:



Wiring diagram:

