

OT Wi DIM 12-48 5CH CA

12-24-48 V Bluetooth Dimmer CASAMBI

Benefits

- 5 independent channel outputs
- 12, 24, 48 V DC input
- CASAMBI wireless control
- High power handling in slim form factor.
- Smooth dimming operation down to 0,8%.

Applications

Hospitality, museums, shops, residential.
Suitable for indoor CLASS I and CLASS II luminaires.

Approvals



When not printed on product label, they are under evaluation.



Housing material: plastic, white
* image for information purpose only

L	186.2 mm	Total length
B	28.8 mm	Width
H	21 mm	Height

Product Features

- 5 independent channels
- Very small and linear shape
- 5 A/ch max (max 12 A in multichannel)
- Minimum dimming level 0.8%
- 12, 24, 48 V DC input compatible
- 2.5 kHz PWM dimming frequency
- 2x normally open dry contacts
- Over voltage, reverse polarity protection
- 50'000 h lifetime at max T_C: 75°C
- 5 years guarantee
- IP20 independent housing (with cable clamps)
- Ambient temperature -10...+60°C

Electrical specifications

	Item	Value	Unit	Remarks
INPUT	Nominal voltage	12 - 24 - 48	V _{DC}	
	Mains frequency	0	Hz	
	Maximum voltage	48	V _{DC}	
	Efficiency in full load	98	%	At 230 V, 50 Hz
	Networked stand-by power	<0,50	W	
	Protection class	III		
	Suitable for fixtures with prot Class	I / II		
OUTPUT	Nominal output voltage	12 - 24 - 48	V	
	Nominal output power	240 W per channel @48 V 120 W per channel @24 V 60 W per channel @12 V		576 W max @48 V (5 A max per CH) 288 W max total @24 V (5 A max per CH) 144 W max total @12 V (5 A max per CH)
	Galvanic isolation	n/a		
	U-OUT (working voltage)	48	V	
DIMMING	Dimming interface	Bluetooth Low Energy		Use CASAMBI APP
	Operating frequencies	2.402...2.483	GHz	
	Dimming range	0,8 – 100	%	
	Dimming method	PWM		
	PWM frequency	2500	Hz	
	Dimming resolution	1000	steps	
	Galvanic Isolation	n/a		
ENVIRONMENTAL	Ambient temperature range	-10...+60	°C	
	Max. temperature at T _c test point	75	°C	Measured on T _c point indicated of the prod label, T _a not exceeded
	Max. case temp. in fault condition	115	°C	
	Storage temperature range	-40...+60	°C	
	Permitted rel. humidity during operation	5 – 85	%	Not condensing
	Environmental rating	Indoor		
	IP protection class	IP 20		
	ECG lifetime	50000	h	T _c = 75°C %
	No-load proof	Tbc		
	Intended for no-load operation	No		
	Overheating protection	Yes		In combination with OPTOTRONIC
	Overload protection	Yes		
	Short-circuit protection	Yes		In combination with OPTOTRONIC
	Type of connection, output side	Push-in terminal		
	Length	186.2	mm	
	Width	28.8	mm	
	Height	21	mm	
	Mounting hole spacing, length	174	mm	
	Product weight	71	g	
	Cable cross-section, input side	0,2...1,5	mm ²	(24...16 AWG) Push-in terminal
	Cable cross-section, output side	0,2...1,5	mm ²	(24...16 AWG) Push-in terminal
	Wire preparation length, input side	9...10	mm	
	Wire preparation length, output side	9...10	mm	
	Casing material	Plastic		

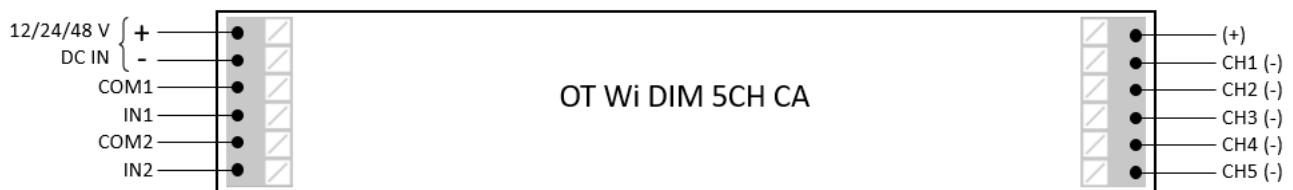
Protection

Input undervoltage, Input overvoltage, Output overvoltage. Reversible.

Programming

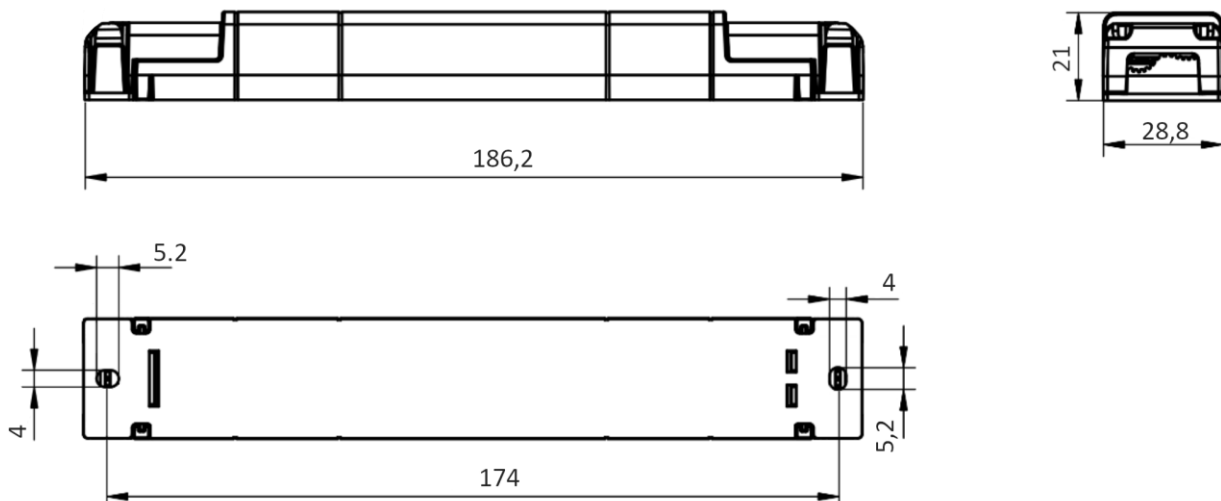
Set the preferred Profile by the CASAMBI APP available at www.casambi.com*:

- 5 synchronised channels (32645)
- 5x independent dimming (32644)
- TW (CH1: WW, CH2: CW) 2200-3500K (33402), 2500-4000K (33540), 2700-5700K (33540), 2700-6500K (33541)
- 2x TW (CH1: WW1, CH2: CW1, CH3: WW2, CH4: CW2) 2200-3500K (33543), 2500-4000K (33544), 2700-5700K (33545), 2700-6500K (33546)
- 2x 2TW (CH1: WW1, CH2: CW1, CH3: WW2, CH4: CW2) 2200-3500K (33556), 2500-4000K (33557), 2700-5700K (33558), 2700-6500K (33559)
- RGB (CH1: R, CH2: G, CH3: B) (32643)
- RGBW / RGB+W (CH1: R, CH2: G, CH3: B, CH4: W) (32647 / 32646)
- RGB+TW (CH1: R, CH2: G, CH3: B, CH4: WW, CH5: CW) 2200-3500K (33760), 2500-4000K (33761), 2700-5700K (33762), 2700-6500K (33763)
- DTW (33561)



*: Download Casambi app from App store or Google play. For the correct functioning of the Casambi app refer to the Casambi website: <http://www.casambi.com>. The Casambi App is provided to you by Casambi. Inventronics shall have no liability for the Casambi app and does not make any representations, express or implied, about the availability and/or functionality of the Casambi app. Inventronics shall have no liability for and does not make any representations, express or implied, about the connectivity of Casambi ready products of Inventronics with any other Casambi ready products.

Dimension



Dry contacts

Connect normally open push buttons to the “INPUT 1” and “INPUT 2” terminals with “” symbol.

Do not connect live parts or any voltage carrying signals to “input” terminals.

Length of cables from OT Wi DIM 5CH CA to push buttons or other dimming controls must be shorter than 10 m.

Cables must be properly dimensioned and must be insulated from any non-SELV wiring or voltage.

It is recommended to use double insulated cables or shielded cables.

Remarks

- **No load operation:** do not put a switch between OT Wi DIM 5CH CA and load.
- The product must be installed in a vertical or horizontal position with the label/top cover facing upwards or vertically. Other positions are not permitted.
- Keep 230Vac (LV) circuits and not SELV circuits separated from safety extra low voltage (SELV) circuit and from any connection with this product. It is absolutely forbidden to connect, for any reasons whatsoever, directly or indirectly, the 230Vac mains voltage to the product terminal blocks.
- The product must be dissipated correctly. The use of the product in harsh environments could limit the output power.
- Always ensure proper thermal management (i.e. correct mounting of the device, air flow etc.) so that the T_c point temperature does not exceed the T_c maximum limit.
- Only use correctly dimensioned SELV power supplies with short circuit protection.
- In the case of power supplies equipped with ground terminals, it is mandatory to connect ALL protective ground points (PE= Protection Earth) to a properly and certified protection earth.
- The connection cables between the very low voltage power source and the product must be properly dimensioned and must be insulated from any wiring or part at non-SELV voltage. Use double insulated cables.
- Dimension the power of the power supply in relation to the load connected to the device. In case the power supply is oversized compared to the maximum absorbed current, insert a protection against over-current between the power supply and the device. OPTOTRONIC LED power supplies are strongly suggested.
- Load cable length must be shorter than 10 m. Cables must be properly dimensioned do avoid voltage drop and must be insulated from any wirings or circuits working at non-SELF voltages. It is recommended to use double insulated cables. For load cables longer than 10m, installer must guarantee the correct operation of the system. In any case it is not suggested to exceed the length of 30 m.
- **Ecodesign regulation information:**
Intended for use with LED modules only. Separated control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centers and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.

Standards

EN 55015
EN 61547
EN 61347-1
EN 61347-2-13

Ordering information

Product name	EAN 10	EAN 40	Pieces / Box
OT Wi DIM 5CH CA	4062172382274	4062172382281	20

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