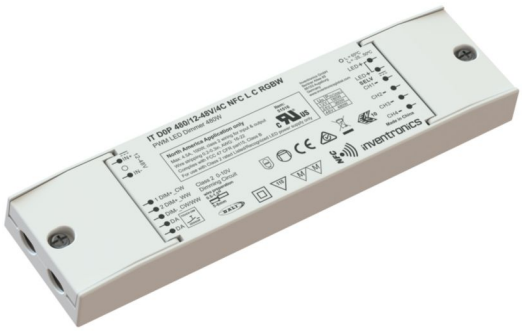
IT D0P 480/12-48V/4C NFC L C RGBW



Product family features

- Intelligent digital dimmer (DALI) with constant output voltage
- 12…48 V input / output compatible
- Max. output power up to 480 W
- Dimming range: 0-0,1…100 %
- Multi-channel output
- NFC programmability

Product family benefits

- Very precise dimming thanks to digital light control
- Multiple channel output
- Multiple dimming protocols: DALI-2, 0-10V, 1-10V, PWM
- DALI-2 certified incl. Parts 251, 252, 253
- DALI DT6 and DT8 operations

Specifications are subject to changes without notice.
© 2026,Inventronics. All rights reserved.

Areas of application

- Suitable for indoor installations
- Independent installation

Specifications are subject to changes without notice.
© 2026,Inventronics. All rights reserved.

Technical data

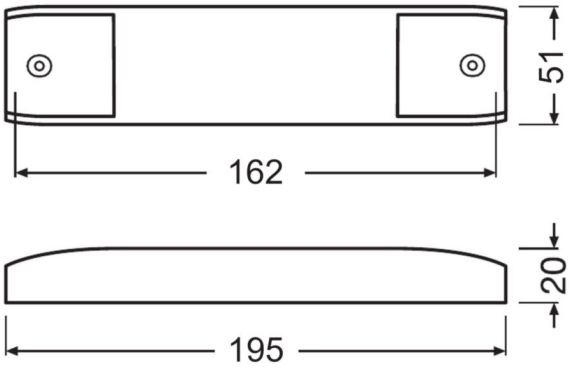
Electrical data

Nominal input voltage	12…48 V
Mains frequency	0 Hz
Input voltage DC	11…54 V
Nominal output voltage	12…48 V
Output PSTLM	≤1 [1)]
Output SVM	<0.4 [1)]
Nominal output power	480 W
Maximum output power	480 W
Galvanic isolation	SELV
Galvanic isolation DALI/output	Reinforced
Networked standby power	<1.20 W

1) for dim levels down to 5%

© 2026,Inventronics. All rights reserved.

Dimensions & weight



Length	181.0 mm
Width	42.0 mm
Height	20.0 mm
Mounting hole spacing, length	162.0 mm
Cable cross-section, input side	0.5…1.5 mm²
Cable cross-section, output side	0.5…1.5 mm²
Wire preparation length, input side	9.0…10.0 mm
Wire preparation length, output side	6.0…7.0 mm
Product weight	129.00 g

Colors & materials

Casing material	Plastic
Product color	White

Temperatures & operating conditions

Ambient temperature range	-25…+50 °C
Maximum temperature at tc test point	65 °C
Max.housing temperature in case of fault	100 °C
Temperature range at storage	-25…85 °C
Permitted rel. humidity during operation	5…85 %

© 2026,Inventronics. All rights reserved.

Lifespan

ECG lifetime	50000 h [1)]

1) @ Tc max, 10% failure rate

Capabilities

Dimmable	Yes
Dimming interface	1…10 V / DALI-2 / 0-10V / PWM
Dimming range	0.1…100 %
Dimming method	Pulse Width Modulation
DALI-2 Diagnostic Data	Yes
DALI-2 Energy Data	Yes
Suitable for fixtures with prot. class	I / II
Type of connection, input side	Screw terminal
Type of connection, output side	Screw terminal
Number of channels	4
Overheating protection	Yes, auto reversible
Overload protection	Yes, auto reversible
Short-circuit protection	Yes, auto reversible
Intended for no-load operation	No
No-load proof	Yes

© 2026,Inventronics. All rights reserved.

Certificates & standards

Approval marks – approval	CE / ENEC 10 / BIS / MM / UL / RCM / FCC
Standards	EN 55015 / EN 61547 / EN 61347-1 / EN 61347-2-13 / CISPR 15 / EN 60598-1 / EN 62384
Type of protection	IP20

Logistical data

Applicable region	APAC (excl. China, India, Japan) / CHINA / EUROPE / INDIA / MEA / NAFTA / SOUTH AMERICA

Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)	
Date of Declaration	11-09-2026
Primary Article Identifier	6937186134127
Declaration No. in SCIP database	In work
SCIP_ID	

© 2026,Inventronics. All rights reserved.

Download Data

File		
Product Datasheet	PDF	►IT D0P 480 12 48V 4C NFC L C RGBW 6937186134127 TDS 310326
Certificates	PDF	►IT D0P 480 NFC L C RGBW VDE 4551631 240826
Mandatory Publications	PDF	►IT D0P 480 NFC L C RGBW CE 4551768 00 100726
User instruction	PDF	►IT D0P 48012 48V4C NFC L C RGBW 15132036 210126

© 2026,Inventronics. All rights reserved.

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
6937186134127 INVENTRONICS	IT D0P 480/12-48V/4C NFC L C RGBW	Shipping carton box 20 Pieces	210 x 210 x 120 mm	5.29 dm³	139.10 g

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit

Specifications are subject to changes without notice.
© 2026,Inventronics. All rights reserved.