

The trusted value of **OSRAM Digital Systems** continues with **Inventronics Global** – where experience meets innovation.

OTi DALI 50/220-240/24 1CH G3

Optotronic Intelligent - 24 V DALI



Product family features

- Dimmable via Touch DIM
- Available as single-channel or multi-channel with DT6 and DT8 in one device
- Dimming range: 0.1...100 % (for 50-80-160W) or 1...100 % (for 30W)
- Line frequency: 0 Hz | 50 Hz | 60 Hz

Product family benefits

- Intelligent power matching thanks to Smart power supply
- Form factor for mounting on the cove or in luminaires
- No stroboscopic effect thanks to patented high PWM frequency management (> 2 kHz)
- Suitable for installation in emergency lighting systems according to EN 60598-2-22
- DALI message detection "LED Module failure"
- IP rating: IP20

Areas of application

- Cove lighting, wall washer, corridor, handrail, luminous ceilings
- Suitable for use in luminaires of protection class I and II

Technical data

Electrical data

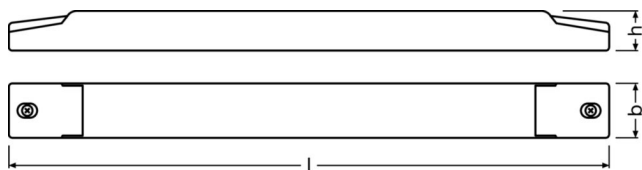
Nominal input voltage	220...240 V
Mains frequency	0/50/60 Hz
Input voltage AC	198...264 V
Input voltage DC	176...276 V
Total harmonic distortion	< 5 %
Power factor λ	0.82C...0.99
Efficiency in full-load	92 % ¹⁾
Device power loss	4.0 W
Inrush current	41 A
Max. ECG no. on circuit breaker 10 A (B)	13
Max. ECG no. on circuit breaker 16 A (B)	21
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	24 V ²⁾
U-OUT (working voltage)	24.2 V
Output PSTLM	<1
Output SVM	<0.4
Nominal output power	50 W
Maximum output power	50 W ³⁾
Galvanic isolation	SELV
Galvanic isolation DALI/mains	Basic
Galvanic isolation DALI/output	Double
Networked standby power	<0.30 W

1) at 230 V, 50 Hz

2) DC voltage

3) at steady state

Dimensions & weight



Length	346.0 mm
Width	32.0 mm
Height	22.0 mm
Mounting hole spacing, length	300.6 mm
Cable cross-section, input side	0.5...2.5 mm ²
Cable cross-section, output side	0.5...1.5 mm ²
Wire preparation length, input side	6.0 mm
Wire preparation length, output side	5.0 mm
Product weight	191.00 g

Colors & materials

Casing material	Plastic
Product color	White

Temperatures & operating conditions

Ambient temperature range	-20...+45 °C
Maximum temperature at tc test point	70 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40...+85 °C
Permitted rel. humidity during operation	5...85 % ¹⁾

1) Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	50000 h
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Capabilities

Programming interface	DALI
Dimmable	Yes
Dimming interface	DALI-2 / Corridor / Touch DIM
Dimming range	0.1...100 %
Dimming method	Pulse Width Modulation
DALI-2 Diagnostic Data	No
DALI-2 Energy Data	No
Max. cable length to lamp/LED module	50 m ¹⁾
Suitable for fixtures with prot. class	I / II
Suitable for emergency lighting	Yes
Type of connection, input side	Screw terminal
Type of connection, output side	Screw terminal
Number of channels	1
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
Short-circuit protection	Automatic reversible
Intended for no-load operation	No
No-load proof	Yes

1) Output wires must be routed as close as possible to each other

Programming

Tuner4TRONIC	Yes
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Programmable features

DALI-2 Luminaire Data	No
TouchDIM + Sensor	Yes
Corridor Functionality	Yes

Certificates & standards

Approval marks – approval	BIS / CCC / EAC / EL / ENEC 10 / RCM / VDE
Standards	EN 55015 / EN 60598-2-22 / EN 61000-3-2 / EN 61347-1 / EN 61347-2-13 / EN 61547 / EN 62384 / EN 62386
Type of protection	IP20

Logistical data

Commodity code	85044083900
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Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	24-02-2026
Primary Article Identifier	4062172274340 6977770431881
Declaration No. in SCIP database	In work
SCIP_STATUS	In work
SCIP_ID	

Equipment / Accessories

- Suitable for 24 V LED modules

Ecodesign regulation information:

Intended for use with LED modules.

The forward voltage of the LED light source shall be within the defined operating window of the control gear in all operating conditions including dimming if applicable.

Separate 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 centres 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.

Download Data

File		
Product Datasheet	PDF	▶ OTi DALI 50 80 24 1CH G3 TDS 120522
Certificates	PDF	▶ OT VDE ENEC 40050684 290125
Mandatory Publications	PDF	▶ OTi DALI G3 CE 4404351 02 220523
Mandatory Publications	PDF	▶ OTi DALI CV G3 UKDoC 4404352 010622
User instruction	PDF	▶ OPTOTRONIC LED Power Supply

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
6977770431881 INVENTRONICS	OTi DALI 50/220-240/24 1CH G3	Shipping carton box 20 Pieces	371 x 171 x 105 mm	6.66 dm ³	199.44 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

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.