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

### OTi DALI 80/220-240/48 1CH (NEW)

Optotronic Intelligent - 48 V DALI



#### Product family features

- Dimmable via Touch DIM
- 50 m load cable with EMI validated
- Dimming range: 0.1...100 %
- 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"
- DALI part 251-252-253
- 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



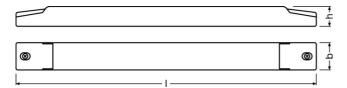
#### Technical data

#### **Electrical data**

220240 V
50/60 Hz
198264 V
176276 V
< 5 %
> 0.98
93%
6.0 W
46 A
9
15
2 kV
1 kV
48.2 V
48.2 V
<1
<0.4
080 W
80 W
SELV
Basic
Double
<0.30 W



#### **Dimensions & weight**



Length	346.0 mm
Width	32.0 mm
Height	22.0 mm
Mounting hole spacing, length	303.0 mm
Cable cross-section, input side	0.52.5 mm²
Cable cross-section, output side	0.21.5 mm²
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	85 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-4085 °C
Permitted rel. humidity during operation	585 %

Lifespan	
ECG lifetime	50000 h
Additional product data	
Encapsulated	No
Capabilities	
Programming interface	DALI - 2
Dimmable	Yes
Dimming interface	DALI-2
Dimming range	0.1100 %
Dimming method	Pulse Width Modulation
DALI-2 Diagnostic Data	Yes
DALI-2 Energy Data	Yes
Max. cable length to lamp/LED module	50 m
Suitable for fixtures with prot. class	1/11
Suitable for emergency lighting	Yes
EL DC detection selectable	Yes
EL EOFi – default value	0.15
Type of connection, input side	Screw terminal
Type of connection, output side	Screw terminal
Suitable for through-wiring	No
Number of channels	1
Overheating protection	Yes
Overload protection	Yes
Short-circuit protection	Yes
Intended for no-load operation	No
No-load proof	Yes



#### **Programming**

Tuner4TRONIC	Yes

#### **Programmable features**

DALI Settings	Yes
DALI-2 Luminaire Data	Yes
TouchDIM + Sensor	Yes
Corridor Functionality	Yes

#### Certificates & standards

Approval marks – approval	CCC / CE / BIS / ENEC / EL / MM / RCM / VDE-ENEC
Type of protection	IP20

#### **Environmental information**

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)		
Date of Declaration	16-05-2025	
Primary Article Identifier	6977770432475	
Candidate List Substance 1	Lead	
CAS No. of substance 1	7439-92-1	
Safe Use Instruction	The identification of the Candidate List substance is sufficient to allow safe use of the article.	
Declaration No. in SCIP database	dbaea445-2ffa-4c61-9582-c7c2f8cc825c	
SCIP_ID		

#### Equipment / Accessories

- Suitable for 48 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 CTi DALI 50 80 48 1CH TDS 020425			
Certificates	PDF	►OT VDE ENEC 40050684 290125	
Mandatory Publications	PDF	►OTI DALI 48V CE 4540294 040225	
User instruction	PDF	►G15130368 UI_OTi DALI 50_80 48 1CH_4p_MiCh_INV v2	

#### **Logistical Data**

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
6977770432475 INVENTRONICS	OTi DALI 80/220-240/48 1CH	Shipping carton box 20 Pieces	371 x 171 x 105 mm	6.66 dm³	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