

## OT FIT 40/220-240/1A0 NFC

OPTOTRONIC FIT NFC | Compact constant current LED driver – Non dimmable



### Product family features

- Output current range 150-1050 mA
- NFC Interface
- Low LF-ripple < 5%
- Lifetime: up to 50,000 h (temperature at max.  $t_c$ )

### Product family benefits

- Fast programming / current set via NFC\*
- High quality of light thanks to low output ripple current
- Small housing for flexible luminaire designs
- High efficiency

### Areas of application

- Spot light and down light
- Offices
- Shops
- Hospitality

## Technical data

### Electrical data

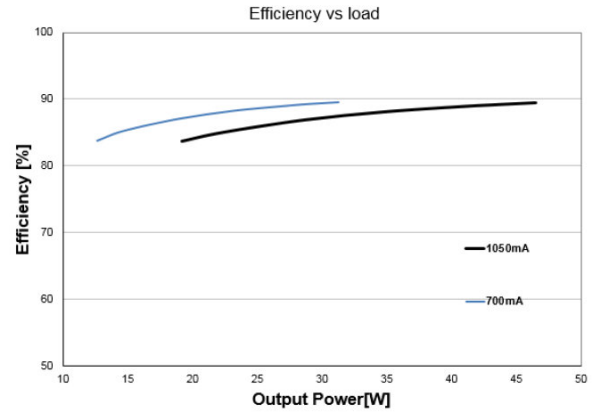
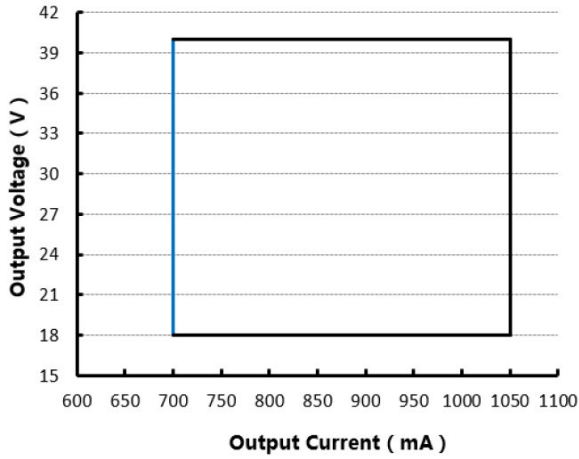
Nominal input voltage	220...240 V
Mains frequency	50/60 Hz
Input voltage AC	198...264 V
Total harmonic distortion	< 10 % <sup>1)</sup>
Power factor $\lambda$	0.85C...0.98
Efficiency in full-load	88 % <sup>2)</sup>
Device power loss	5.5 W
Inrush current	20 A <sup>3)</sup>
Max. ECG no. on circuit breaker 10 A (B)	15
Max. ECG no. on circuit breaker 10 A (C)	-
Max. ECG no. on circuit breaker 16 A (B)	25
Max. ECG no. on circuit breaker 16 A (C)	-
Max. ECG no. on circuit breaker 25 A (B)	-
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	18...40 V
U-OUT (working voltage)	60 V
Nominal output current	700...1050 mA <sup>4)</sup>
Output current tolerance	$\pm 7.5$ %
Default output current	700 mA
Output ripple current (100 Hz)	< 5 %
Output PSTLM	$\leq 1$
Output SVM	$\leq 0.4$
Nominal output power	12.6...42 W
Maximum output power	42 W
Galvanic isolation primary/secondary	SELV
Galvanic isolation	SELV
Current set	NFC

<sup>1)</sup> At full load

<sup>2)</sup> at 230 V, 50 Hz

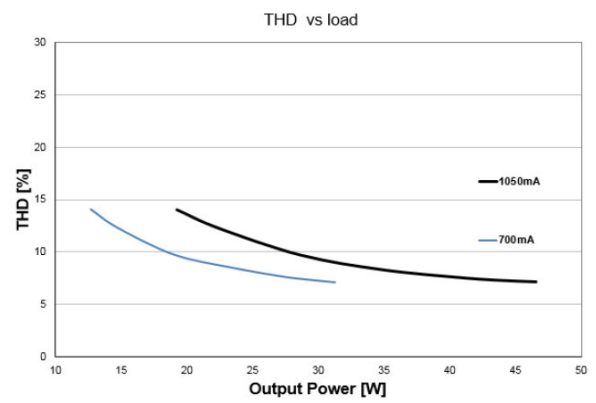
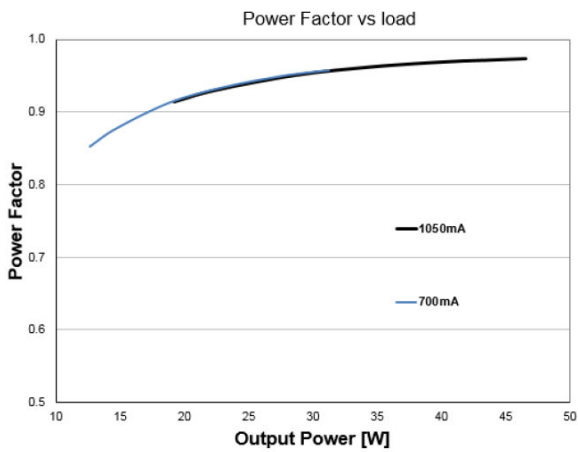
<sup>3)</sup>  $t_h = 200 \mu s$

<sup>4)</sup>  $\pm 7.5$  %



OT FIT 40 NFC Operating Window

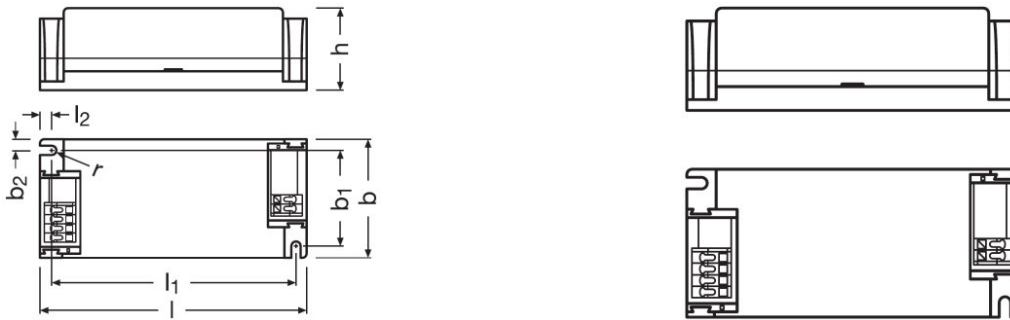
OT FIT 40 NFC Typical Efficiency vs. Load (230 V 50 Hz)



OT FIT 40 NFC Typical Power Factor vs. Load

OT FIT 40 NFC Typical THD Vs Load

## Dimensions & weight



Mounting hole spacing, length	88.0 mm
Mounting hole spacing, width	34.0 mm
Product weight	140.00 g
Cable cross-section, input side	0.5...1.5 / 0.75...1.5 mm <sup>2</sup> <sup>1)</sup>
Cable cross-section, output side	0.5...1.5 / 0.75...1.5 mm <sup>2</sup> <sup>1)</sup>
Wire preparation length, input side	7...8 mm
Wire preparation length, output side	7...8 mm
Length	97.0 mm
Width	43.0 mm
Height	29.5 mm

<sup>1)</sup> Solid/ Flexible Leads

## Colors & materials

Casing material	Plastic
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## Temperatures & operating conditions

Ambient temperature range	-20...+50 °C <sup>1)</sup>
Maximum temperature at tc test point	80 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-25...85 °C
Permitted rel. humidity during operation	5...85 % <sup>2)</sup>

<sup>1)</sup> 700-900 mA

<sup>2)</sup> Non-condensing

## Lifespan

ECG lifetime	50000 / 100000 h <sup>1)</sup>
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<sup>1)</sup> At  $T_c = 80^\circ\text{C} / 0.2\% / 1,000\text{ h failure rate} / T_c = 70^\circ\text{C}, 0.1\% / 1,000\text{ h failure rate}$

## Product datasheet

### Additional product data

Predecessor EAN	4052899957015
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### Capabilities

Dimmable	No
Overheating protection	Automatic reversible
Overload protection	Yes
Short-circuit protection	Yes
No-load proof	Yes
Intended for no-load operation	No
Max. cable length to lamp/LED module	2.0 m <sup>1)</sup>
Suitable for fixtures with prot. class	I / II
Type of connection, input side	Push terminal
Type of connection, output side	Push terminal
Suitable for through-wiring	No
Number of channels	1

<sup>1)</sup> Output wires must be routed as close as possible to each other

### Programming

Box programming	Yes
Tuner4TRONIC	Yes
Tuner4TRONIC Field App	Yes
Programming device	NFC

### Certificates & standards

Approval marks – approval	CCC / CE / ENEC
Standards	Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 61547/Acc. to EN 55015, CISPR 15/Acc. to EN 62386
Type of protection	IP20
Protection class	II

### Logistical data

Commodity code	85044083900
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### Environmental information

<b>Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)</b>	
Date of Declaration	06-09-2023

## Product datasheet

Primary Article Identifier	4052899617193
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	4a6498b1-73e8-4914-820c-5775ae4be28a

### Download Data

File
 User instruction OPTOTRONIC LED Power Supply
 User instruction OPTOTRONIC LED Power Supply
 Certificates OT FIT IT DALI NFC ENEC 35 113246 060420
 Certificates OT FIT IT DALI NFC RCM NSW27559 080421
 Declarations of conformity OT FIT NFC CE 4211505 230821
 Declarations of conformity OT FIT NFC UK DoC 4281077 220823

### 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.

### Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899617193	OT FIT 40/220-240/1A0 NFC	Shipping carton box 20	208 mm x 158 mm x 107 mm	3.52 dm <sup>3</sup>	2915.00 g

## Product datasheet

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### Logistical Data

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.

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### Accessories Optional

Product description	Accessory name	Accessory code
OT FIT 40/220-240/1A0 NFC	OT CABLE CLAMP D-STYLE	▶ 4062172345507
OT FIT 40/220-240/1A0 NFC	OT CABLE CLAMP D-STYLE TL	▶ 4062172349185

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### Disclaimer

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