

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

OT FIT 40/220-240/1A0 NFC G2

OPTOTRONIC FIT NFC G2



Product family features

- Output current range 150-1050 mA
- Output voltage range 15-50V
- NFC Interface
- Low LF-ripple < 5%
- Housing from 80% recycled plastic

Product family benefits

- Fast programming / current set via NFC
- Higher 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

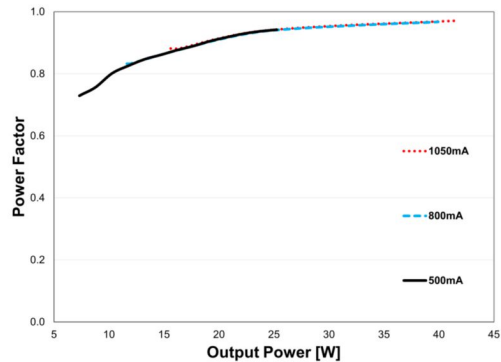
Electrical data

Nominal input voltage	220...240 V
Mains frequency	0/50/60 Hz
Input voltage AC	198...264 V
Input voltage DC	176...276 V
Nominal input current at 230 V	0.21 A
Total harmonic distortion	< 15 % ¹⁾
Power factor λ	0.65C...0.98
Efficiency in full-load	90 %
Device power loss	4.0 W
Inrush current	27 A ²⁾
Max. ECG no. on circuit breaker 10 A (B)	16
Max. ECG no. on circuit breaker 16 A (B)	27
Max. ECG no. on circuit breaker 25 A (B)	42
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV
Protective conductor current	<0.7 mA
Nominal output voltage	15...50 V
U-OUT (working voltage)	60 V
Nominal output current	500...1050 mA
Default output current	700 mA
Output current tolerance	±5 %
Output ripple current (100 Hz)	< 5 %
Output PSTLM	≤1
Output SVM	≤0.4
Nominal output power	7.5...40 W
Maximum output power	40 W
Galvanic isolation primary/secondary	SELV

1) At full load

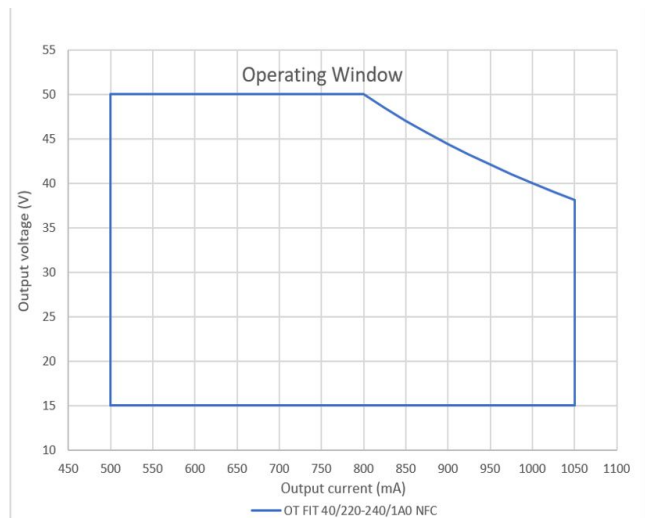
2) $t_{\text{width}} = 180 \mu\text{s}$ (measured at 50 % I_{peak})

Typical Power Factor v Load



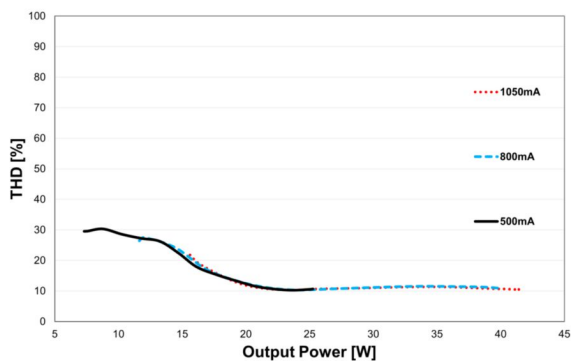
OT FIT 40 NFC G2 Typical Power Factor vs. Load

Operating Window



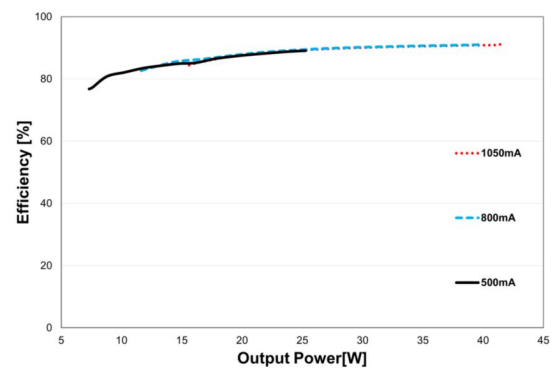
OT FIT 40 NFC G2 Operating window

Typical THD v Load



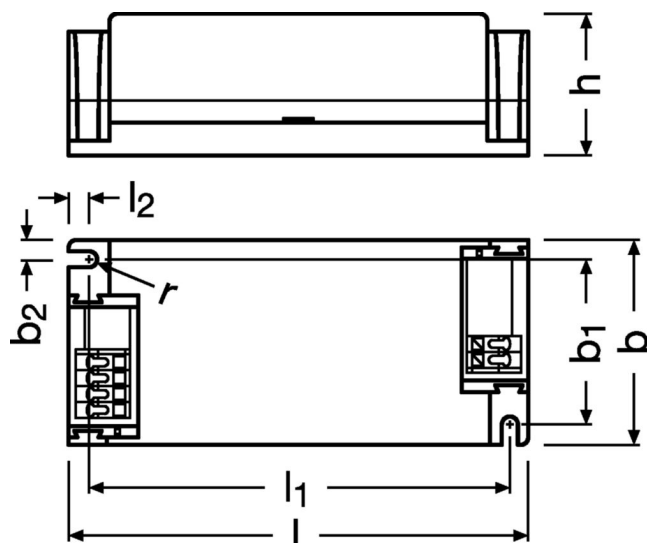
OT FIT 40 NFC G2 Typical THD Vs Load

Typical Efficiency v Load 230 V 50 Hz



OT FIT 40 NFC G2 Typical Efficiency vs. Load

Dimensions & weight



Product weight	140.00 g
Length	97.0 mm
Width	43.0 mm
Height	29.0 mm
Mounting hole spacing, length	88.0 mm
Mounting hole spacing, width	34.0 mm
Cable cross-section, input side	0.5...1.5 mm ² / 0.75...1.5 mm ² ¹⁾
Cable cross-section, output side	0.5...1.5 mm ²
Wire preparation length, input side	7...8 mm
Wire preparation length, output side	7...8 mm
Cable/wire length, output side	2000 mm

1) Solid/ Flexible Leads

Colors & materials

Casing material	80% recycled plastic
Product color	White

Temperatures & operating conditions

Ambient temperature range	-20...+50 / -20...+45 °C
Maximum temperature at tc test point	75 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-25...85 °C
Permitted rel. humidity during operation	5...85 % ¹⁾
Permitted relative humidity at storage	5...85 %

1) Non-condensing

Lifespan

ECG lifetime	50000 h / 100000 h ¹⁾
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1) At maximum $T_c = 75^\circ\text{C}$ / 10% failure rate / At maximum $T_c = 65^\circ\text{C}$ / 10% failure rate

Additional product data

Encapsulated	No
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Capabilities

Programming interface	NFC
Dimmable	No
Constant lumen function	No
Max. cable length to lamp/LED module	2.0 m ¹⁾
Suitable for fixtures with prot. class	I / II
Suitable for emergency lighting	Yes
EL CEAG STAR compatible	Yes
EL DC detection selectable	Yes
EL EOFi – default value	1.0
EL EOFi – rated value	0.30
EL Joker Voltage	Yes
EL stable current	Yes
EL switch-over time	Yes
Type of connection, input side	Push terminal
Type of connection, output side	Push terminal
Suitable for through-wiring	Yes with optional cable clamp
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

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

Certificates & standards

Approval marks – approval	CE / ENEC / CCC / RCM / BIS / EL
Standards	IEC 61347-1 / IEC 61347-2-13 / IEC 62384 / IEC 61000-3-2 / IEC 61000-3-3 / IEC 61547 / EN 55015, CISPR 15 / ETSI EN 300 330 / ETSI EN 301 489-3 / ETSI EN 301 489 - 1
Type of protection	IP20

Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	23-09-2025
Primary Article Identifier	6977078993500
Declaration No. in SCIP database	In work
SCIP_ID	

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		
Certificates	PDF	▶OT IT ENEC 40057833 160125
Certificates	PDF	▶Recycled Content Declaration 210725
CAD data 3-dim	Compressed	▶OT FIT NFC CAD3PDF 110624
Product Datasheet	PDF	▶OT FIT 40 NFC G2 DS 200825
CAD data	Compressed	▶OT FIT NFC STEP 110624
Mandatory Publications	PDF	▶OT FIT NFC CE 4211505 06 180924
User instruction	PDF	▶UI OT FIT NFC G2

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
6977078993500 INVENTRONICS	OT FIT 40/220-240/1A0 NFC G2	Shipping carton box 20 Pieces	208 x 158 x 107 mm	3.52 dm³	145.75 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

Accessories Optional

Product description	Accessory name	Accessory code
OT FIT 40/220-240/1A0 NFC G2	OT CABLE CLAMP D-STYLE	▶ 4062172345507
OT FIT 40/220-240/1A0 NFC G2	OT CABLE CLAMP D-STYLE TL	▶ 4062172349185
OT FIT 40/220-240/1A0 NFC G2	OT CABLE CLAMP D-STYLE TL	▶ 6977770432109
OT FIT 40/220-240/1A0 NFC G2	PRH101 -USB	▶ 6977078996938
OT FIT 40/220-240/1A0 NFC G2	PRH101 -USB	▶ 6937186112354
OT FIT 40/220-240/1A0 NFC G2	CPR30+	▶ 6977078996945
OT FIT 40/220-240/1A0 NFC G2	CPR30+	▶ 6937186112378