OT FIT 40/220-240/1A0 NFC G2 *(NEW)*

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

Specifications are subject to changes without notice.

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Areas of application

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

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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	< 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_{width} = 180 µs (measured at 50 % I_{peak})

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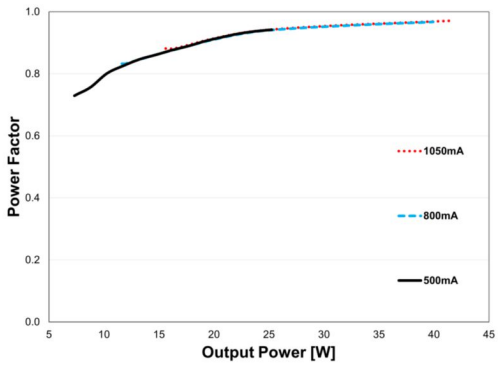
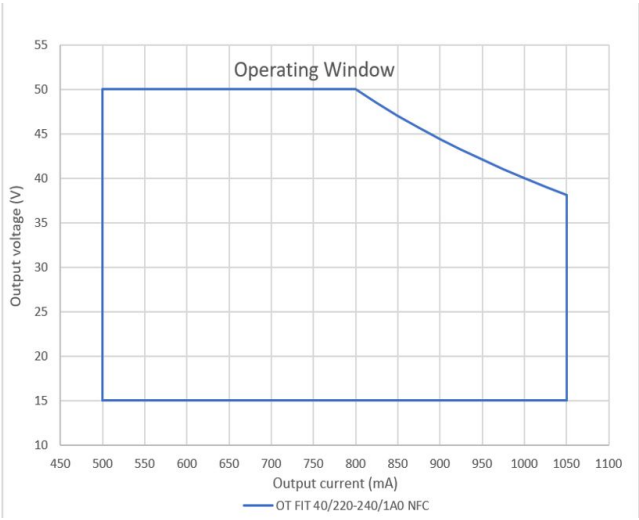
Typical Power Factor v Load



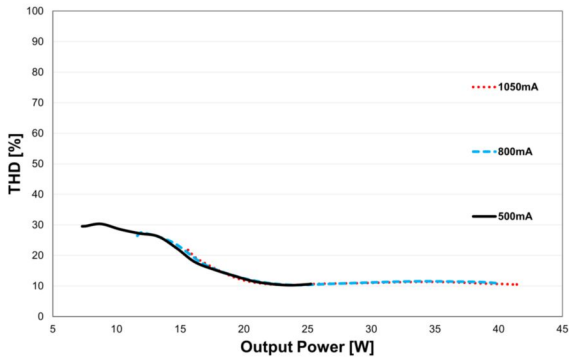
OT FIT 40 NFC G2 Typical Power Factor vs. Load

Operating Window



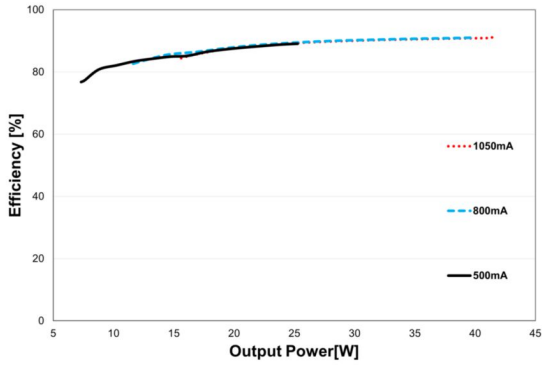
OT FIT 40 NFC G2 Operating window

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

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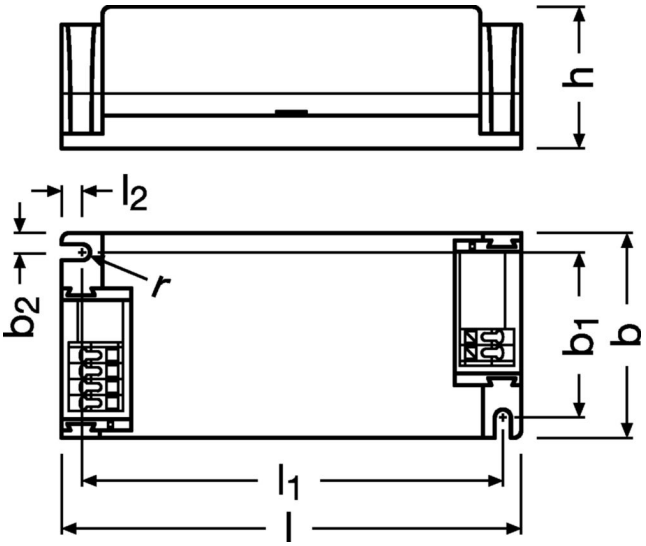
Dimensions & weight



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 mm² / 0.75…1.5 mm² [1)]
Cable cross-section, output side	0.5…1.5 mm²
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

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Lifespan

ECG lifetime	50000 h / 100000 h [1)]

1) At maximum T_c = 75°C / 10% failure rate / At maximum T_c = 65°C / 10% failure rate

Additional product data

Encapsulated	No
Predecessor EAN	4052899617193

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
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

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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	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 ETSI EN 300 330 / Acc. to ETSI EN 301 489-3 / Acc. to 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	31-10-2024
Primary Article Identifier	6977078993500
Declaration No. in SCIP database	In work
SCIP_ID	

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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.

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Download Data

File		
Certificates	PDF	►OT FIT ENEC 40057833 100924
CAD data 3-dim	Compressed	►OT FIT NFC CAD3PDF 110624
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

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Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
6977078993500	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	►4052899077904
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	►4050732420573
OT FIT 40/220-240/1A0 NFC G2	OT CABLE CLAMP D-STYLE	►6977770432086
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	CPR30 -USB	►6977078996945

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