

## IT FIT 30/220-240/750 CS TI-B

ICUTRONIC FIT CS Track Invisible | Compact constant current LED driver – Non dimmable



### Product family features

- SELV LED driver in track adaptor
- Installed completely inside the track system
- Dip-switches for easy output current selection
- Lifetime 50 000 h at tc max
- Low THD <10% @ full load
- Low LF-ripple < 3%

### Product family benefits

- Short housing for minimum distance between spotlights
- Invisible when installed in track systems
- High light quality due to low ripple current
- High efficiency (up to 91.5%)
- High flexibility due to four different output currents per type
- SELV system

## Areas of application

- Track lights
- Shops and hospitality: retail, hotels, restaurants
- Suitable for luminaires of protection class II
- Suitable for three circuits system

## Technical data

### Electrical data

Nominal input voltage	220...240 V
Mains frequency	50 / 60 Hz
Input voltage AC	198...264 V
Input voltage DC	not relevant
Nominal input current at 230 V	0.155 A
Total harmonic distortion	< 10 % <sup>1)</sup>
Power factor $\lambda$	0.85C...0.99 <sup>2)</sup>
Efficiency in full-load	90.5 % <sup>3)</sup>
Device power loss	3.1 W <sup>4)</sup>
Inrush current	20 A <sup>5)</sup>
Max. ECG no. on circuit breaker 10 A (B)	29
Max. ECG no. on circuit breaker 16 A (B)	47
Surge capability (L-N)	1 kV <sup>6)</sup>
Surge capability (L/N-Ground)	2 kV <sup>7)</sup>
Protective conductor current	<0.7 mA
Nominal output voltage	30...40 V
U-OUT (working voltage)	60 V
Nominal output current	600 mA / 650 mA / 700 mA / 750 mA
Default output current	750 mA
Output current tolerance	±5 %
Output ripple current (100 Hz)	3 %
Output PSTLM	≤1
Output SVM	≤0.4
Nominal output power	18...30 W
Maximum output power	30 W
Galvanic isolation primary/secondary	SELV

1) Full load, 230V, 50 Hz

2) Full load at 230 V / 50 Hz

3) at 230 V, 50 Hz

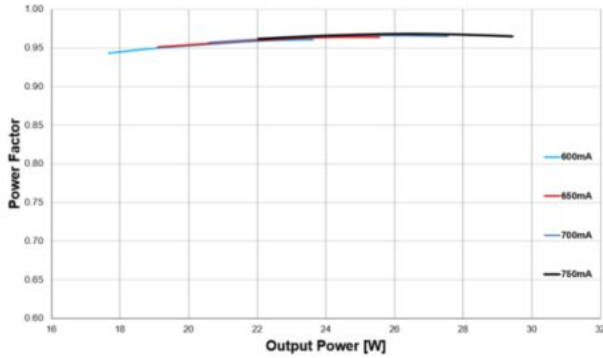
4) At 230 V, Input power 33.1 W max.

5)  $t_{width} = 140 \mu s$  typical (measured at 50 %  $I_{peak}$ )

6) L/N

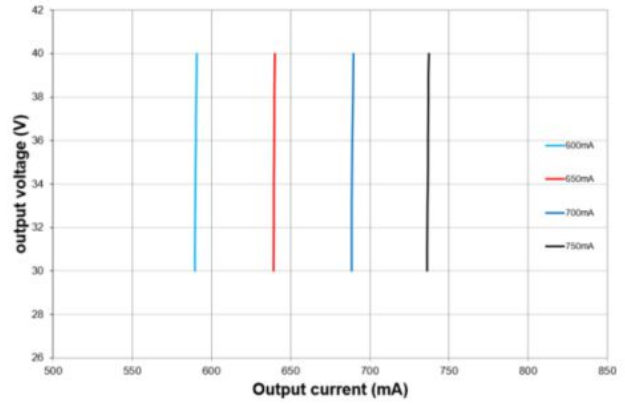
7) L/N – PE acc to EN 61547 (>15 pulses)

## Typical Power Factor v Load



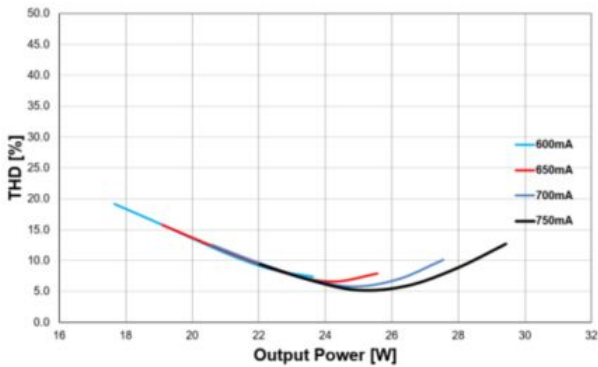
Typical Power factor vs load of IT FIT 30W CS\_Track Invisible

## Operating Window



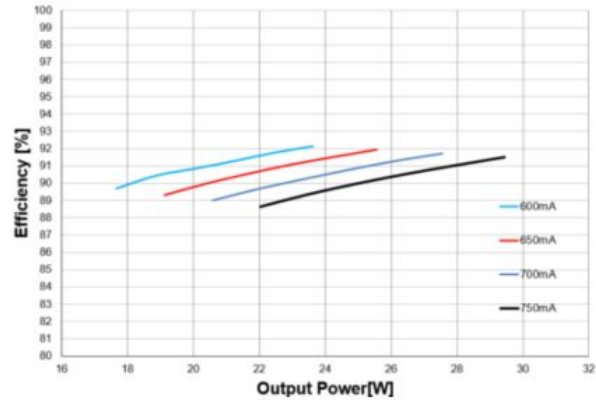
Typical Operating window of IT FIT 30W CS\_Track Invisible

## Typical THD v Load



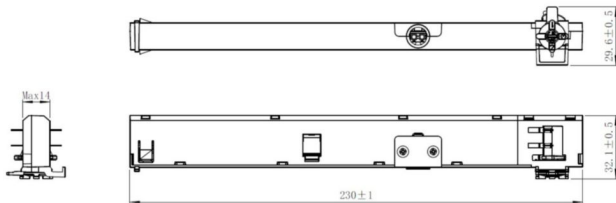
Typical THD vs load of IT FIT 30W CS\_Track Invisible

## Typical Efficiency v Load 230 V 50 Hz



Typical Efficiency vs load of IT FIT 30W CS\_Track Invisible

## Dimensions & weight



<b>Product weight</b>	85.00 g
<b>Length</b>	230.0 mm
<b>Width</b>	29.6 mm
<b>Height</b>	32.1 mm
<b>Cable cross-section, output side</b>	0.5...1.5 mm <sup>2</sup>
<b>Wire preparation length, output side</b>	7...8 mm
<b>Cable/wire length, output side</b>	2000 mm

## Colors & materials

<b>Casing material</b>	Plastic
<b>Product color</b>	BLACK RAL 9011

## Temperatures & operating conditions

<b>Ambient temperature range</b>	-20...+35 °C
<b>Maximum temperature at tc test point</b>	75 °C
<b>Max.housing temperature in case of fault</b>	110 °C
<b>Temperature range at storage</b>	-20...80 °C <sup>1)</sup>
<b>Permitted rel. humidity during operation</b>	5...85 % <sup>2)</sup>

1) Cool down before operating

2) Maximum 56 days/year at 85 %

## Lifespan

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

## Additional product data

<b>Encapsulated</b>	No
<b>Compatible track systems</b>	GLOBAL / Powergear / ERCO / EUTRAC / Nuco / Unipro <sup>1)</sup>

1) The compatibility may become invalid when the critical track dimension is modified by the brand owner in case of engineering change or optimization in the future

## Capabilities

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

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

## Programming

Programming device	DIPswitch
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## Certificates & standards

Approval marks – approval	CE / ENEC / VDE / CQC / RCM
Standards	IEC 61347-1 / IEC 61347-2-13 / IEC 62384 / CISPR 15 / IEC 61000-3-2 / IEC 61547
Type of protection	IP20

## Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	31-03-2026
Primary Article Identifier	6977770438910
Declaration No. in SCIP database	In work
SCIP_STATUS	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.

## Additional product information

- Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs.
- Indication that the lamp control gear relies upon the luminaire enclosure for protection against accidental contact with live parts.
- The max. mechanical loading  $F_{max}$  for the track driver mounted on the ceiling is 50N, which should be intended as the whole system inclusive of the weight of luminaires and accessories.
- The max. mechanical loading  $F_{max}$  for the track driver mounted on the wall is 25N, which should be intended as the whole system inclusive of the weight of luminaires and accessories.

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## Download Data

File		
CAD data	Compressed	▶ IT FIT CS TI STEP 180625
User instruction	PDF	▶ UI IT FIT CS TI

## Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
6977770438910 INVENTRONICS	IT FIT 30/220-240/750 CS TI-B	Shipping carton box 20 Pieces	240 x 195 x 88 mm	4.12 dm <sup>3</sup>	95.56 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.

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## Accessories Optional

Product description	Accessory name	Accessory code
IT FIT 30/220-240/750 CS TI-B	TRACK JOINT FOR INVISIBLE DRIVER	▶ 6937186103062