

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

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

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

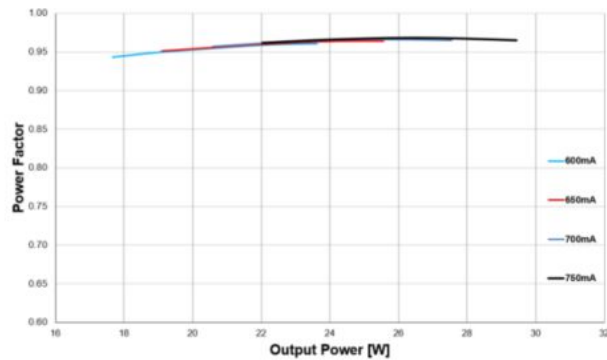
4) At 230 V, Input power 33.1 W max.

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

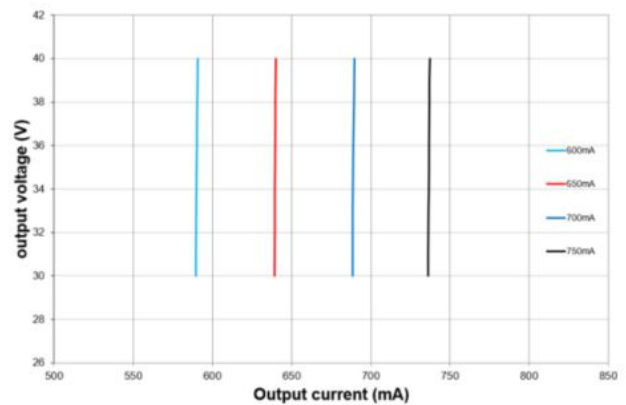
6) L/N

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

## Typical Power Factor v Load

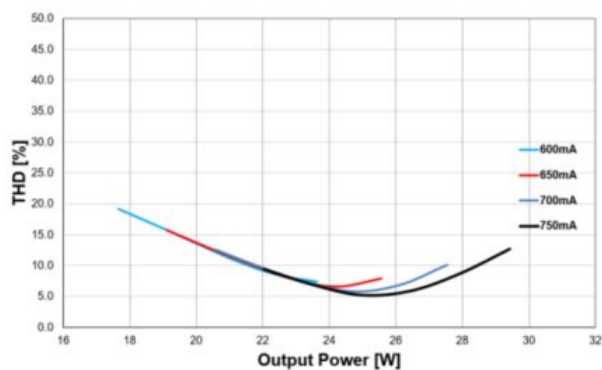


## Operating Window



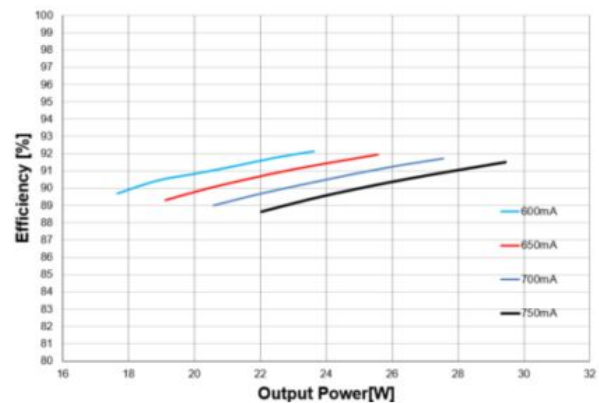
## Typical Power factor vs load of IT FIT 30W CS\_Track Invisible

### Typical THD v Load



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

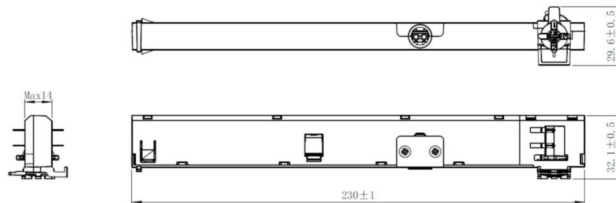
### Typical Efficiency v Load 230 V 50 Hz



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

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

## Dimensions & weight



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

## Colors & materials

|                 |                |
|-----------------|----------------|
| Casing material | Plastic        |
| Product color   | BLACK RAL 9011 |

## Temperatures & operating conditions

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

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 |
|--------------------|-----------|

## 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                                                   | 04-08-2025                                                                                         |
| Primary Article Identifier                                            | 6977770438910                                                                                      |
| 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                                      | 7723ac63-69d8-4877-9ada-5e50d4dd8350                                                               |
| 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.

## Download Data

| File                   |            |                                                 |
|------------------------|------------|-------------------------------------------------|
| Certificates           | PDF        | ▶ IT FIT CS Track INV CB DE1-69626 310325       |
| Certificates           | PDF        | ▶ IT FIT CS Track INV CQC 25010466961 EN 040725 |
| Certificates           | PDF        | ▶ IT FIT CS Track INV CQC 25010466961 ZH 040725 |
| Certificates           | PDF        | ▶ IT FIT CS Track INV RCM NSW 28523/9           |
| Certificates           | PDF        | ▶ IT FIT CS Track INV ENEC 40060061 310325      |
| CAD data 3-dim         | Compressed | ▶ IT FIT CS TI CAD3PDF 180625                   |
| CAD data               | Compressed | ▶ IT FIT CS TI STEP 180625                      |
| Mandatory Publications | PDF        | ▶ IT FIT CS Track INV CE 4169154 00 180325      |
| User instruction       | PDF        | ▶ UI IT FIT CS TI                               |

## Logistical Data

| Product code                  | Product description              | Packaging unit<br>(Pieces/Unit)  | Dimensions (length<br>x width x height) | Volume               | Gross weight |
|-------------------------------|----------------------------------|----------------------------------|-----------------------------------------|----------------------|--------------|
| 6977770438910<br>INVENTRONICS | IT FIT 30/220-240/750<br>CS TI-B | Shipping carton box<br>20 Pieces | 240 x 195 x 88 mm                       | 4.12 dm <sup>3</sup> | 10.56 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

## Accessories Optional

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

## Disclaimer

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