

## Product Datasheet:

**ELEMENT 25/220-240/600 CS T W KR**

**(White)**

**ELEMENT 25/220-240/600 CS T B KR**

**(Black)**

500mA-600mA

### Product Description

- Compact size for miniaturized track light luminaire design
- Suitable for 1 circuit system
- Easy current selection via dip switches
- 30.000h lifetime
- Black/White color available
- Low ripple



(To be updated)

### Product Benefits

- High light of quality with low ripple current
- High flexibility from 2 different output currents
- Small housing compatible to popular track systems in black or white

### Applications

- Shop
- Retail
- Public building

### Approval Marks



### Product Features

- Output currents: 500/600mA
- Output voltage: 30V<sub>DC</sub> – 42V<sub>DC</sub>
- Output power: 15W – 25.2W
- Input voltage : 220 – 240 V<sub>AC</sub>
- Suitable for class II luminaires
- 30'000 h lifetime at  $t_{cmax} = 70 \text{ }^{\circ}\text{C}$
- Fixed Output (i.e. no dimming)
- Typ. Efficiency: 86%
- SELV
- Ambient temp range,  $ta: -20\text{ }^{\circ}\text{C}$  to  $+35\text{ }^{\circ}\text{C}$

## Electrical Specifications

Item	Value	Unit	Remarks
Input	Nominal voltage	VAC	
	Nominal frequency	Hz	
	AC voltage	VAC	Safety voltage range
	Max voltage	VA	2 hrs
	Nominal current	mA	230V
	THD	%	Full load, 230V, 50 Hz
	Power factor		Full load, 230V, 50 Hz
	Efficiency	%	Full load, 230V, 50 Hz, typical
	No-load power		Load switching on output side is not permitted
	Power loss	W	at 230V, Input power 29.3 W max.
	Protection class		Suitable for class II luminaires
	Inrush current	A	twidht = 172 $\mu$ s typical (measured at 50% Ipeak)
Output	Max units per circuit breaker		B10: 50; B16: 80 C10: 83; C16: 133; B25: 125; C25: 208;
	Leakage current	mA	<0.7
	Nominal voltage range	VDC	30-42
	Max voltage	VDC	60
	Nominal current	mA	500/600
	Current accuracy	%	+/- 7.5
	Current ripple	%	<=3
	Pst LM		$\leq 1$
	SVM		$\leq 0.4$
Dimming	Nominal power range	W	15-25.2
	Max power	W	25.2
	Galvanic isolation		SELV
	Dimming control		n/a
	Dimming range	%	n/a
Environment	Dimming technique		n/a
	Frequency	Hz	n/a
	Galvanic isolation		n/a
	Ambient temperature range ta	°C	-20...+35
	Maximum case temperature tc	°C	70
	Max. case temp. in fault condition	°C	110
	Storage temperature range	°C	-20...+80
	Relative humidity	%	5...85
	Surge transient protection	kV	1 / 2
	Environmental rating		Indoor
Protections	IP rating		IP20
	Mains switching cycles		> 100.000
	Expected lifetime	hours	30.000
	Over temperature		Yes
	Over load		Yes
	No load		Yes
Short-circuit			Limitation of Output voltage < 60V
			Yes
Output overvoltage			Automatic, reversible
			Yes
Output overvoltage			Limitation of Output voltage < 60V

### Wiring Diagram

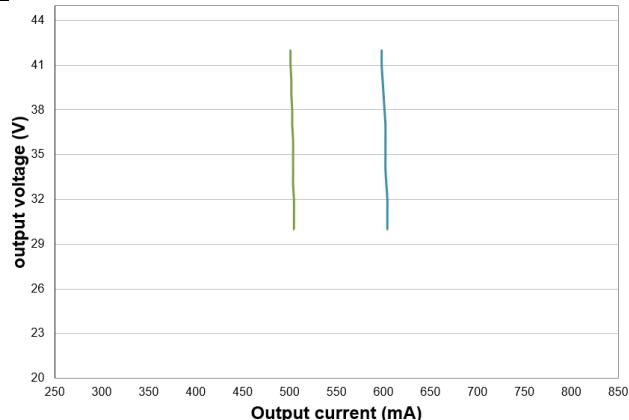
Terminal: Push in terminals

Weight: 85g

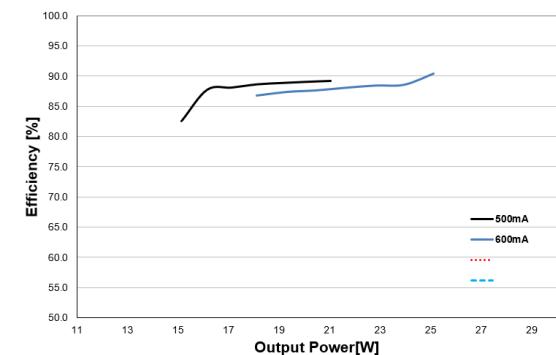
### Wire preparation:

Push in  
s:0.5-1.5  
f:0.75-1.5  
7-8 mm

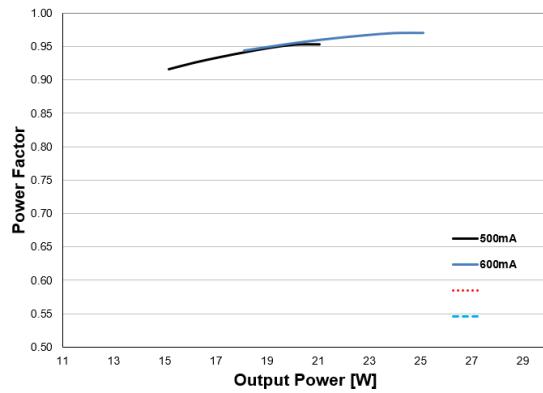
### Typical Operating window



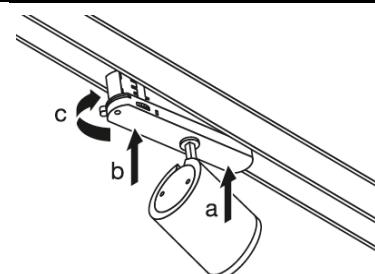
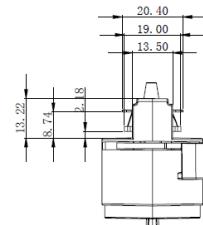
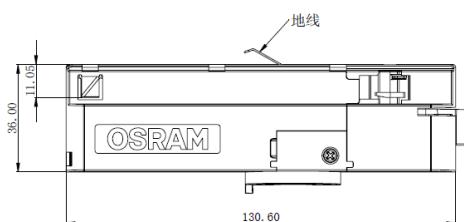
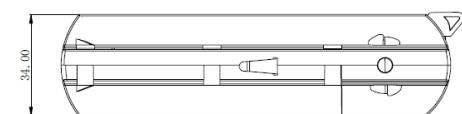
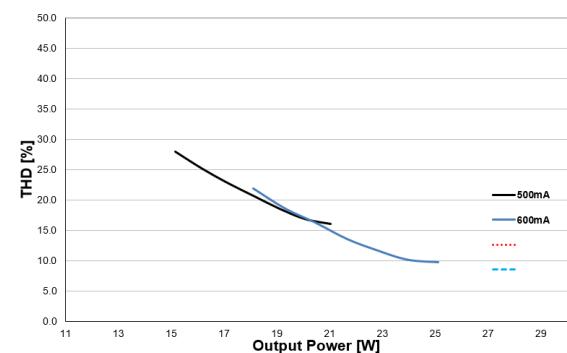
### Typical Efficiency VS load



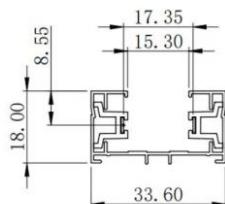
### Typical Power factor VS load



### Typical THD VS load



Minimum distance between two drivers in the track system is 25cm

**Suitable track system:****Table 1:**

<b>Iout (mA)</b>	<b>500</b>	<b>600</b>
<b>U min [V]</b>	30	30
<b>U max [V]</b>	42	42
<b>P min [W]</b>	15	18
<b>P max [W]</b>	21	24.2
<b>Ta [°C ]</b>	35	35
<b>Tc [°C ]</b>	70	70
<b>Line Current, nominal @230V [mA]</b>	165	195
<b>Max Power Loss @230V [W]</b>	3.4	4.1
<b>Input Power @230V [W]</b>	24.2	29.3

<b>SW</b>	<b>Irated(mA)</b>
ON	600
OFF	500

Current selection by DIP-switch

- 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 controlgear relies upon the luminaire enclosure for protection against accidental contact with live parts.
- The max. mechanical loading Fmax for the track driver mounted on the ceiling is **TBDN**, which should be intended as the whole system inclusive of the weight of luminaires and accessories.
- The max. mechanical loading Fmax for the track driver mounted on the wall is **TBDN**, which should be intended as the whole system inclusive of the weight of luminaires and accessories.

**Standards**

Safety: IEC 61347-1, IEC 61347-2-13

Performance: IEC 62384

Radio interference: CISPR 15

Harmonic content: IEC 61000-3-2

Immunity: IEC 61000-3-3

<b>Product name</b>	<b>EAN10</b>	<b>EAN40</b>	<b>Pieces / box</b>
ELEMENT 25/220-240/600 CS T W KR	<b>TBD</b>	<b>TBD</b>	40
ELEMENT 25/220-240/600 CS T B KR	<b>TBD</b>	<b>TBD</b>	40

OSRAM GmbH

Head office:

Marcel-Breuer-Strasse 6  
80807 Munich, Germany  
Phone +49 89 6213-0  
[www.osram.co](http://www.osram.co)

**OSRAM**