

Requirements for electronic non-dimmable control gears for fluorescent lamps and LED					
Manufacturer: Osram GmbH Marcel-Breuer-Straße 6 D-80807 München	T Control gear: OT FIT 25/2	Manufacturer information Complies: YES/NO			
Specifications:	CEAG data:	Explanation:			
Control gear suitable for a DC voltage range:	186V - 260V DC (for Lead-Battery)	Possible voltage range of the battery in emergency mode. (Not for AT-S <sup>+</sup> Systems required)	YES		
Control gear compatible with the switch-over time of the system?	Switch-over time: 180 ms - 450 ms	Typical switch-over time of CEAG systems between mains supply and emergency power supply	YES		
Starting behavior of the control gear:	Stable current consumption after less than 1.6 sec. maximum.	A stable operation of the control gear after 1.6 seconds of start up is required for the right functionality of the individual monitoring. With max. 20 luminaires for one current circuit: $\Delta$ I in sum < 250 mA are allowed	YES		
only for flourescent lamps: Control gear complies with the standard:	DIN EN 60929	AC and/or DC-supplied electronic control gear for tubular fluorescent lamps - Performance requirements	not relevant		
only for flourescent lamps: Control gear complies with the standard:	DIN EN 61347-2-3 (incl. Attachment J)	Particular requirements for AC and/or DC supplied electronic control gear for fluorescent lamps	not relevant		
only for LED: Control gear complies with the standard:	DIN EN 62384	AC or DC supplied electronic control gear for LED modules - Performance requirements	YES		
only for LED: Control gear complies with the standard:	DIN EN 61347-2-13	Particular requirements for AC or DC supplied electronic control gear for LED modules	YES		
Control gear complies with the standard:	DIN EN 55015 (Measured in AC and DC)	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	YES		
Control gear complies with the standard:	DIN EN 61000-3-2	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	YES		
Control gear complies with the standard:	DIN EN 61000-3-2, Pkt. 7.3 a.)	see *Important note!	YES		
Control gear complies with the standard:	DIN EN 61547	Equipment for general lighting purposes - EMC immunity requirements	YES (*2)		
Note: The labeling "according to VDE 0108" is n	ot meaningful, because this is not a control gear standard	!			
Specifications:	CEAG data:	Explanation:	Manufacturer information:		
Important for functiontest: Voltage-dependent Input current of the control gear incl. LED in DC and AC operation:	V-CG-S2: >9,4 mA or >12,7 mA = OK V-CG-S: >16 mA or >47 mA = OK V-CG-SE: >16 mA or >47 mA = OK V-CG-SUW: >47 mA = OK CG-K: >16 mA or >47 mA = OK	Selection guide for the monitoring modules as well as for the calculation of the max. number of luminaires per circuit and the necessary battery capacity.  In the voltage range of 186 - 275V DC and 189 - 264V AC the input current must be higher.  see *Important note! (*1)	AC: see TABLE 1  DC: see TABLE 1		
Important for functiontest: Voltage-dependent No-load current of the control gear (without or defect LED module)	V-CG-S2: <5,8 mA or <7,9 mA = n.OK V-CG-S: <10 mA or <28 mA = n.OK V-CG-SE: <10 mA or <28 mA = n.OK V-CG-SUW: <28 mA = n.OK	Selection guide for the monitoring modules. In the voltage range of 186 - 275V DC and 189 - 264V AC the no-load current must be lower.	AC: see TABLE 1		
in DC and AC - operation*:  Important for the power consumption of addressable ballast:	CG-K: <10 mA or <28 mA = n.OK V-CG-S2 = 30 A V-CG-SE = 30 A V-CG-SE = 30 A V-CG-SUW = 80 A CG-K = 30 A	see *Important note! (*1)  The max. inrush current of each monitoring module has to be considered!	DC: see TABLE 1 Ipeak=9A TH=24µs		
Note: Important for the planning -					
Important for the contact load SKU: Max. inrush current of each luminaire in AC operation	Max. permitted inrush current per circuit:  SKU 2 x 3A (CG) => 120 A  SKU 1 x 6A (CG) => 180 A  SKU 4 x 1,5A CG-S => 60 A  SKU 2 x 3A CG-S => 250 A  SKU 1 x 6A CG-S => 250 A  SOU CG-S // S* => 250 A	Describes the max. inrush current of all luminaires in one circuit to calculate the maxim contact load of the circuit.			
	SU S <sup>+</sup> => 250 A	An much comply with DIN EN 60500 0 00			
		ng must comply with DIN EN 60598-2-22 uminaires for emergency lighting)			
		ortant note!			

\*Important note!

For AT-S+ systems and for battery systems (ZB-S / LP-STAR) with active preliminary time for AC about 300 seconds (EOL detection of T5 lamps) for the function test, the current consumption must be sinusoidal, t.m. all control gears (<25W as well) must have an active PFC (Power Factor Correction)!

See DIN EN 61000-3-2, Pkt. 7.3 a.)

Note EOL (End of Life) detection (T5 > 14Watt): The AC preliminary time is valid for the complete system (e.g. ZB-S), not possible for individual circuits.

(\*1) The modules of the V-CG-S series monitor the current consumption on the primary side of the control gear for LED modules within the specified limits. Failures of individual LEDs (low-impedance) on the secondary side do not inevitably lead to a modification of current consumption on the primary side, and in such cases cannot be detected as a failure.

(\*2) Not to be used in high risk areas, special release required





Manufacturer:	Product:	
OSRAM GmbH		OCDAN
Marcel-Breuer Str. 6	OT FIT 25 220-240 300 LT2 L	USRAM
D-80807 München		

LED controller type	Values for load range	In in AC-operation (230V) / mA (trms)	IN in AC- operation (240V) / mA (trms)	IN in DC-operation (186V) / mA (trms)	IN in DC- operation (216V) / mA (trms)	In in DC- operation (240V) / mA (trms)	In in DC- operation (260V) / mA (trms)
OT FIT 25 220-240 300 LT2 L	Maximum Load /m. Uout= 216V lout= 113mA	126,98	123,49	144,43	124,80	114,04	108,05
	Minimum Load /m، Uout= 60V Iout= 35mA		43,09			15,57	
	No Load		28,05	2,93		2,93	3,09
	Short Load		25,71	0,58		0,74	0,79

Maximum inrush current for ECG in AC Operation:

Ipeak=9A

TH=24µs