

	Requirements for electronic control gears for fluorescen		Version 12					
Manufacturer: OSRAM GmbH Marcel-Breuer-Str. 6 D-80807 München	Control gear: OT FIT 150/220	Manufacturer information Complies: YES/NO						
Specifications:	CEAG data:							
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 ⁺ Systems required)	YES ⊠ NO □					
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 ⊠ NO □					
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: Δ I in sum < 250 mA are allowed	YES ⊠ NO □					
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	YES NO					
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	YES NO					
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 ⊠ NO □					
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 ⊠ NO □					
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 ⊠ NO □					
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 ⊠ NO □					
Control gear complies with the standard:	DIN EN 61000-3-2, Pkt. 7.3 a.)	see *Important note!	YES ⊠ NO □					
Control gear complies with the standard:	DIN EN 61547	Equipment for general lighting purposes - EMC immunity requirements	YES ⊠ (*1) NO □					
Note: The labeling "according to VDE 0108" is no	t meaningful, because this is not a control gear standard!		Name of a decimal					
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	Minimum current of the LED driver with LED module to GOOD detection via the monitoring module. In the voltage range of 189 - 264V AC on AT-S+ or 186 - 260V DC on ZB-S/LP-STAR the input current must be higher than the specified current values. see *Important note!	AC: see TABLE 1 (AT-S+) DC: see TABLE 1					
Important for functiontest: Voltage-dependent No-load current of the control gear (without or defect LED module) in DC and AC - operation*:	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 CG-K: <10 mA or <28 mA = n.OK	Maximal current of the LED driver with LED module for BAD detection via the monitoring module. In the voltage range of 189 - 264V AC on AT-S+ or 186 - 260V DC on ZB-S/LP-STAR the input current must be lower than the specified current values. see *Important note!	AC:see TABLE 1 (AT-S+) DC:see TABLE 1 (ZB-					
Important for the power consumption of addressable ballast:	V-CG-S2 = 30 A V-CG-S = 30 A V-CG-SE = 30 A V-CG-SUW = 80 A CG-K = 30 A	The max. inrush current of each monitoring module has to be considered!	IS/LP-STAR) Ipeak=5A Th=1.7ms					
Note: Important for the planning - I	Max. no. Of luminiares per circuit Max. permitted inrush current							
Important for the contact load SKU: Max. inrush current of each luminaire in AC operation	per circuit: SKU 2 x 3A (CG) => 120 A SKU 1 x 6A (CG) => 180 A Describes the max. inrush current of all luminaires in one circuit to calculate the maximum							
	Luminaires for emergency lighting	ng must comply with DIN EN 60598-2-22						
		uminaires for emergency lighting) ortant note!						
-	nption must be sinusoidal, t.m. all control gea	ninary time for AC about 300 seconds (EOL detection of T5 lan ars (<25W as well) must have an active PFC (Power Factor Co is 1000-3-2. Pkt. 7.3 a.)	• •					

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.

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.

(*1) Not to be used in high risk areas, special release required.

23. Nov 18

Requirements for electronic non-dimmable control gears for fluorescent lamps and LED



Manufacturer: OSRAM GmbH	Product:	
Marcel-Breuer Str. 6 D-80807 München	OT FIT 150/220-240/1A0 D NFC IND L	OSRAM GmbH

Table 1

LED controller type	Values for	load rang	e	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 150/220-240/1A0 D NFC IND L	Maximum Load /mA	Uout= lout=	200V 750mA	714	684	897	763	680	625
	Medium Load /mA	Uout= lout=	150V 500mA	367	354	443	380	341	316
	Minimum Load /mA	Uout= lout=	100V 430mA	231	224	263	228	208	195
	No Load			62	64	10	10	8	10
	Short Load			67	66	6	12	13	20

Maximum inrush current for ECG in AC Operation:

Ipeak=5A

TH=1,7ms