

F	Version 12						
Manufacturer: OSRAM GmbH Marcel-Breuer-Str. 6 D-80807 München	Ty Control gear: OT FIT 45	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 <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 ⊠ 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: $\Delta$ 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	YES 🗆				
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 🗵				
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 ⊠ NO □				
Control gear complies with the standard:	DIN EN 61547	Equipment for general lighting purposes - EMC immunity requirements	YES ⊠ NO □				
Note: The labeling "according to VDE 0108" is no	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	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!  Maximal current of the LED driver with LED module for	AC: see TABLE 1 (AT-S+) DC: see TABLE 1 (ZB-S/I P-STAR)				
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	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-S/I P-STAR)				
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!	lpeak=13A Th=26µs				
Note: Important for the planning -	Max. no. Of luminiares per circuit						
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  SU S' => 250 A	it:  3A (CG) => 120 A  6A (CG) => 180 A  1,5A CG-S => 60 A  3A CG-S => 250 A  6A CG-S => 250 A  6A CG-S => 250 A  6-S // S* => 250 A					
	Luminaires for emergency lightin	ng must comply with DIN EN 60598-2-22 uminaires for emergency lighting)					
		ortant 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.

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.

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



OSRAM GmbH	Product: OT FIT 45/220-240/200 D L	OSRAM
D-80807 München		

## Table 1

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 45/220-240/200 D L	Maximum Load /m Uout= 54V lout= 1050mA	218,63	210,44	264,79	226,40	203,59	187,75
	Minimum Load /m, Uout= 27V lout= 800mA		80,00		4	56,08	
	No Load		35,54	1,37		1,37	1,21
	Short Load		35,82	0,76		1,22	1,31

Maximum inrush current for ECG in AC Operation: Ipeak=13A

Тн=26µs