

C	Version 12							
Manufacturer: Osram GmbH Marcel-Breuer-Straße 6 D-80807 München	T Control gear: OT FIT 35/2	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 ⁺ 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 l 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 D NO D					
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 D NO D					
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 X NO D					
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 🖾 NO 🗖					
Note: The labeling "according to VDE 0108" is not	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!						
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 Table1 (AT- S+) DC: see Table1 (ZB-S/LP-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!	(28-3/LP-51 АК) Ipeak=15А TH=256µs					
Note: Important for the planning - M								
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 Describes the max. inrush current of all luminaires in one circuit to calculate the maximum							
	Luminaires for emergency lightin	g must comply with DIN EN 60598-2-22						
the current consum Note EOL (End of Life) detect The modules of the V-CG-S series modules	*Impo systems (ZB-S / LP-STAR) with active prelimi option must be sinusoidal, t.m. all control gea See DIN EN 6 ction (T5 > 14Watt): The AC preliminary time i onitor the current consumption on the primary si	uminaires for emergency lighting) <u>ortant note!</u> inary time for AC about 300 seconds (EOL detection of T5 lay trs (<25W as well) must have an active PFC (Power Factor Co 1000-3-2, Pkt. 7.3 a.) is valid for the complete system (e.g. ZB-S), not possible for de of the control gear for LED modules within the specified limits. irrent consumption on the primary side, and in such cases canno	individual circuits. Failures of individual LEDs t be detected as a failure.					
			16. Jul 18					

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



Manufacturer:	Product:	
OSRAM GmbH		
Marcel-Breuer Str. 6	OT FIT 35/220-240/350 D NFC L	OSRAM
D-80807 München		

Table1:

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 35/220-240/350 D NFC L	Maximum Load /m Uout= 54V lout= 105	V 50mA	177,35	171,50	211,58	180,92	162,78	149,80
	Minimum Load /m, Uout= 27V lout= 800	V 0mA		55,67			29,76	
	No Load			32,91	0,68		0,68	0,73
	Short Load			31,86	0,44		2,58	1,73

Maximum inrush current for ECG in AC Operation: Ipeak=15A TH=256µs