

Requirements for	dimmable DALI control gear	s for fluorescent lamps and LED	Version 0			
Manufacturer: Osram GmbH Marcel-Breuer-Straße 6 D-80807 München	Type / description: ECG-type: Oti DALI 35/220-240/700 LT2 L G2 (ident code: AM06315)					
Features:	CEAG data:	Comment:	Complies: (Yes/No)			
Control gear suitable for a DC voltage range:	186V - 260V DC (for Lead-Battery) 186V - 275V DC (for NiCD-Battery)	Possible voltage range of the battery in emergency mode. (Not for AT-S ⁺ 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.	Necessary for an individual monitoring. $\Delta I < 12,5 mA per luminaire, with max. 20 luminaires per circuit \Delta I sum < 250 mA$	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	DC. Or AC supplied electronic control gear for LED modules - Performance requirements	Yes			
only for LED: Control gear complies with the standard:	DIN EN 61347-2-13	Lamp controlgear — Part 2-13: Particular requirements for d. c. or a. c. supplied electronic controlgear for LED modules	Yes			
Fullfilled the standard:	DIN EN 55015 (Measurement on AC And DC)	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	Yes			
Fullfilled 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			
Fullfilled the standard:	DIN EN 61547	Equipment for general lighting purposes — EMC immunity requirements	Yes (*3)			
Fullfilled the DALI standards:	DIN EN 62386-101 /-102 / -207	Control gear must have the DALI Logo (*1)	Yes			
Note: VDE 0108 is not a standard for ECG, mark	king is not applicable					
Features:	CEAG-Data:	Comment:	Manufacturer's instructions:			
Important for function test! According to IEC 62386 Part 102 Support of : DALI command 145 (Query Control Gear) DALI command 146 (Query Lamp Failure)	According to IEC 62386 Part 102	To detect a lamp failure, the V-CG-SB.1 module send DALI command queries (145/146) to the DALI LED driver	Yes			
Important for DC light output: Behavior in DC operation: - Unlocked DC light output level - Locked DC light output level	DC light output settings on V-CG-SB.1 only active if control gear is unlocked!	In case of locked DC light output level, the DC level of V-CG-SB.1 is not active !	Unlocked DC [Locked DC [x			
Important for lighting design: If locked DC light output the lightout level in % is required	No control of light output level from V-CG- SB.1 in DC operation possible!	Locked light output level in %, e.g. 15% (*2)	15%			
Important for the contact load SKU: Max. inrush current each converter/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	Describes the max. inrush current of all ballasts in a circuit, to calculate the maximum contact rating of the circuit.	lp=20A / Th=168µs			
Important for lighting design: Luminous flux ratio: DC-operation at 186 V in comparison to 230 V AC operation	-	Light output In battery opertion of the ballast, for the light calculation (*2)	15%			

Luminaires, which are used for emergency lighting, must be according to the standard DIN EN 60598-2-22 (particular requirements - Luminaires for emergency lighting)

*1: Control of V-CG-SB.1 to the DALI LED driver is 100% done via DALI-commands according to IEC 62386-101 /-102 so the DALI LED driver must sign with the DALI logo

*2: The DC Output Level is locked in DC Mode to 15%, it is possibe to unlock with DALI magic and Tuner 4 Tronic

*3: Not to be used in high risk areas, special release required Max. 1 DALI- Driver to wire with 1 V-CG-SB.1

In use of manifold ballasts, the different lamp failure detection of the manufacturer must be consider! Some devices don't detect a failure if one lamp is defect.

Date: 12.February 2018

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



Manufacturer:	Product:	
OSRAM GmbH		
Marcel-Breuer Str. 6	Oti DALI 35/220-240/700 LT2 L G2	OSRAM
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)
Oti DALI 35/220-240/700 LT2 L G2							
	Umin, Imin	42,46	43,41	12,61	10,94	10,13	9,73
	Umin, Imax	75,89	71,54	19,56	16,90	15,58	14,84
	Umax, Imin	66,78	65,82	18,23	15,76	14,55	13,89
	Umax, Imax	183,87	176,57	37,20	31,99	29,16	27,37
	Open Load	25,23	32,03	3 <mark>,</mark> 83	3,76	3,96	4,14
	Short Load	25,23	31,98	3,52	3,76	3,90	4,56

Maximum inrush current for ECG in AC Operation

20 A 168 μs

Ipeak=

TH=