

Requirements for dimmable DALI control gears for fluorescent lamps and LED Version 0 Manufacturer: Type / description: Osram GmbH Marcel-Breuer-Straße 6 ECG-type: Oti DALI 50/220-240/24 1-4 CH (ident code: AB46594) D-80807 München Features: CEAG data: Comment: Complies: (Yes/No) Control gear suitable for 186V - 260V DC (for Lead-Battery) Possible voltage range of the battery in emergency mode. Yes 186V - 275V DC (for NiCD-Battery) (Not for AT-S⁺ Systems required) a DC voltage range Control gear compatible with the switch-Switch-over time: Typical switch-over time of CEAG systems between Yes over time of the system? 180 ms - 450 ms mains supply and emergency power supply Necessary for an individual monitoring. Stable current consumption Starting behavior of the control gear: Δ I < 12,5 mA per luminaire, with max. 20 luminaires per circuit Yes after less than 1.6 sec. maximum. A I sum < 250 mA only for flourescent lamps: AC and/or DC-supplied electronic control gear for tubular **DIN EN 60929** Control gear complies with the not relevant fluorescent lamps - Performance requirements standard: only for flourescent lamps: Particular requirements for AC and/or DC supplied electronic Control gear complies with the DIN EN 61347-2-3 (incl. Attachment J) not relevant control gear for fluorescent lamps standard: only for LED: DC. Or AC supplied electronic control gear for LED modules -Control gear complies with the **DIN FN 62384** Yes Performance requirements standard: only for LED: Lamp controlgear - Part 2-13: Particular requirements for d. c. Control gear complies with the DIN EN 61347-2-13 Yes or a. c. supplied electronic controlgear for LED modules standard: **DIN EN 55015** Limits and methods of measurement of radio disturbance Fullfilled the standard: Yes (Measurement on AC And DC) characteristics of electrical lighting and similar equipment Electromagnetic compatibility (EMC) — Part 3-2: Limits -Fullfilled the standard: DIN EN 61000-3-2 Limits for harmonic current emissions (equipment input current Yes ≤ 16 A per phase) Equipment for general lighting purposes - EMC immunity Fullfilled the standard: DIN EN 61547 Yes requirements Fullfilled the DALL standards: DIN EN 62386-101 /-102 / -207* Control gear must have the DALI Logo Yes Note: VDE 0108 is not a standard for ECG, marking is not applicable Manufacturer's Features: CEAG-Data: Comment: instructions: Important for function test! According to IEC 62386 Part 102 Support of : To detect a lamp failure, the V-CG-SB.1 module send DALI command 145 According to IEC 62386 Part 102 Yes DALI command queries (145/146) to the DALI LED driver (Query Control Gear) DALI command 146 (Query Lamp Failure) Important for DC light output: Unlocked DC [] Behavior in DC operation: DC light output settings on V-CG-SB.1 In case of locked DC light output level, the DC level of Unlocked DC light output level only active if control gear is unlocked! V-CG-SB.1 is not active ! Locked DC [x] Locked DC light output level Important for lighting design: No control of light output level from V-CG-If locked DC light output the lightout Locked light output level in %, e.g. 15% (**) 15% SB.1 in DC operation possible! level in % is required Max. permitted inrush current per circuit: SKU 2 x 3A (CG) => 120 A => 180 A SKU 1 x 6A (CG) Important for the contact load SKU: SKU 4 x 1,5A CG-S => 60 A Describes the max, inrush current of all ballasts in a circuit, to Max. inrush current each Ip=39A / Th=133µs SKU 2 x 3A CG-S => 250 A converter/luminaire in calculate the maximum contact rating of the circuit. SKU 1 x 6A CG-S => 250 A AC-operation: SOU CG-S // S* => 250 A SU S⁺ => 250 A Important for lighting design: Luminous flux ratio: Light output In battery opertion of the ballast, 15% DC-operation at 186 V in comparison for the light calculation (**) to 230 V AC operation

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

*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

** The DC Output Level is locked in DC Mode to 15%, it is possibe to unlock with DALI magic and Tuner 4 Tronic 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: 20.Oct.2014

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



Manufacturer: OSRAM GmbH Marcel-Breuer Str. 6 D-80807 München Product:

Oti DALI 50/220-240/24 1-4 CH

OSRAM

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 60/220-240/24 1-4 CH							
	Dali max Level	258,97	264,67	61,09	51,46	48,33	44,32
	Dali min Level	31,93	32,57	64,14	55,54	49,26	46,23
	No Load	30,99	31,67	10,58	9,03	8,15	7,44

Maximum inrush current for ECG in AC Operation : 39A; TH=133 μ s