

| Requirements for dimmable DALI control gears for fluorescent lamps and LED | | | Version 3 |
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| Manufacturer: | Type / description: ECG-type: OTi DALI 75/220-240/550 D NFC IND L (AM35046) | | Manufacturer information Complies: YES/NO |
| Features: | 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 |
| 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. | 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: ΔI in sum < 250 mA are allowed | Yes |
| <u>only for fluorescent lamps:</u> 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 |
| <u>only for fluorescent lamps:</u> 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 |
| <u>only for LED:</u> Control gear complies with the standard: | DIN EN 62384 | DC. Or AC supplied electronic control gear for LED modules - Performance requirements | Yes |
| <u>only for LED:</u> 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 |
| Fullfilled the DALI 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 | | | |
| Features: | CEAG-Data: | Explanation: | Manufacturer information: |
| <u>Important for function test!</u> 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. These DALI commands are necessary to ensure the lamp failure detection, and must be support by the control gear. | Yes |
| <u>Important for DC operation:</u> DALI light level | In case of locked DALI light level in DC operation (EOF=Emergency Output Level), the V-CG-SB.1 can not change the light level ! | In DC-emergency case the DALI-Light Level is locked to prevent unwanted changes of the luminous flux. | Locked |
| <u>Important for lighting design:</u> If DALI-Light level is locked, the value of the preset DC-Lightlevel (in %) is required | | Pre-set DC-Light Level ** e.g. 15% (DALI-value 185 for logarithmic dimming curve) | 15% |
| Note: Important for the planning - Max. no. Of luminaires per circuit | | | |
| <u>Important for the contact load SKU:</u> 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 | Inrush current of one LED driver: 5 A, 3000 μs Describes the max. inrush current of all ballasts in a circuit, to calculate the maximum contact rating of the circuit. | |
| 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: The DC Output Level is locked in DC Mode to 15% as preset factory setting. This preset value can be adjusted project depending via DALI Magic and T4 Tronic. To enable the adjustment of the DC output level via the V-CG-SB.1, the DC detection has to be deactivated via T4T. *2: Not to be used in high risk areas, special release required. | | | |
| This LED driver declaration does not substitute a system test and release in a specific installation. | | | |

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| Manufacturer: OSRAM GmbH Marcel-Breuer Str. 6 D-80807 München | Product: OTi DALI 75/220-240/550 D NFC IND L (AM35046) | OSRAM GmbH |
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Table 1

| Values for load range | Nominal current of the control gear with connected illuminant in AC-operation | | Nominal current of the control gear with connected illuminant in DC- operation (Default output current in emergency mode = 15%) | | | |
|--|---|-----------------------------------|--|-----------------------------------|-----------------------------------|-----------------------------------|
| | $I_N @ U_N = 230V$ [mA trms] | $I_N @ U_N = 240V$ [mA trms] | $I_N @ U_N = 186V$ [mA trms] | $I_N @ U_N = 216V$ [mA trms] | $I_N @ U_N = 240V$ [mA trms] | $I_N @ U_N = 260V$ [mA trms] |
| Minimum Load /mA Uout= 64 V Iout= 125 mA P= 8 W | 67 | 67 | 21 | 18 | 19 | 20 |
| Medium Load /mA Uout= 68 V Iout= 550 mA P= 37 W | 196 | 189 | 44 | 38 | 35 | 32 |
| Maximum Load /mA Uout= 136 V Iout= 550 mA P= 75 W | 361 | 347 | 78 | 67 | 61 | 56 |
| Open Load /mA | 40 | 42 | 12 | 13 | 12 | 12 |
| Short Load /mA | 40 | 42 | 12 | 13 | 13 | 13 |

Remarks:

This table shows the currents consumption of the driver at three different operating points (Pmax, Pmed, Pmin) for AC and DC operation.
 In DC operation the output current is reduced to 15% light level according to the default parameter setting. This level can be changed via T4T.