

Requirements for dimmable DALI control gears for fluorescent lamps and LED			Version 3
<b>Manufacturer:</b> OSRAM GmbH Marcel-Breuer-Str. 6 D-80807 München	<b>ECG-type:</b> OTi DALI 25/220-240/700 NFC L ( AM31196 ) <b>Date:</b> 16.12.2019	<b>Manufacturer information</b> Complies: YES/NO	
<b>Features:</b>	<b>CEAG data:</b>		
Control gear suitable for a DC voltage range:	<b>186V - 260V DC (for Lead-Battery)</b>	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?	<b>Switch-over time:</b> <b>180 ms - 450 ms</b>	Typical switch-over time of CEAG systems between mains supply and emergency power supply	YES
Starting behavior of the control gear:	<b>Stable current consumption after less than 1.6 sec. maximum.</b>	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
<u>only for fluorescent lamps:</u> Control gear complies with the standard:	<b>DIN EN 60929</b>	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:	<b>DIN EN 61347-2-3 (incl. Attachment J)</b>	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:	<b>DIN EN 62384</b>	DC. Or AC supplied electronic control gear for LED modules - Performance requirements	YES
<u>only for LED:</u> Control gear complies with the standard:	<b>DIN EN 61347-2-13</b>	Lamp controlgear — Part 2-13: Particular requirements for d. c. or a. c. supplied electronic controlgear for LED modules	YES
Fullfilled the standard:	<b>DIN EN 55015 (Measurement on AC And DC)</b>	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	YES
Fullfilled the standard:	<b>DIN EN 61000-3-2</b>	Electromagnetic compatibility (EMC) — Part 3-2: Limits — Limits for harmonic current emissions (equipment input current $\leq 16$ A per phase)	YES
Fullfilled the standard:	<b>DIN EN 61547</b>	Equipment for general lighting purposes — EMC immunity requirements	(*2) YES
Fullfilled the DALI standards:	<b>DIN EN 62386-101 /-102 / -207*</b>	<b>Control gear must have the DALI Logo*</b>	YES
Note: VDE 0108 is not a standard for ECG, marking is not applicable			
<b>Features:</b>	<b>CEAG-Data:</b>	<b>Explanation:</b>	<b>Manufacturer information:</b>
<u>Important for function test!</u> According to IEC 62386 Part 102 Support of : <b>DALI command 145</b> (Query Control Gear) <b>DALI command 146</b> (Query Lamp Failure)	<b>According to IEC 62386 Part 102</b>	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	<b>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 !</b>	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)	(*1) 15%
<b>Note: Important for the planning - Max. no. Of luminaires per circuit</b>			
<u>Important for the contact load SKU:</u> Max. inrush current each converter/luminaire in AC-operation:	<b>Max. permitted inrush current per circuit:</b> 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 <sup>+</sup> => 250 A SU S <sup>+</sup> => 250 A	<b>I<sub>peak</sub> = 18 A, TH = 190 us</b>  Describes the max. inrush current of all ballasts in a circuit, to calculate the maximum contact rating of the circuit.	
<b>Luminaires, which are used for emergency lighting, must be according to the standard DIN EN 60598-2-22 (particular requirements - Luminaires for emergency lighting)</b>			
*1: The DC Output Level is locked in DC Mode to 15% as preset factory setting. This preset value ( luminous flux in case of DC-voltage) can be adjusted project depending via DALI Magic and T4 Tronic. To enable the adjustment of the luminous flux 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. <b>Max. one DALI- Driver to wire with one EL-monitoring module</b>			