

Requirements for	dimmable DALI control gear	s for fluorescent lamps and LED	Version 3
Manufacturer: OSRAM GmbH Marcel-Breuer-Str. 6 D-80807 München	ECG-type: ETi DALI 75/220-240/500 D LT2 L Date: 18.09.2019	. (AM28130)	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: Δ I in sum < 250 mA are allowed	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	(*3) YES
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, marking	ng is not applicable		
Features:	CEAG-Data:	Explanation:	Manufacturer information:
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. These DALI commands are necessary to ensure the lamp failure detection, and must be support by the control gear.	YES
Important for DC operation: DALI light level	In case of locked DALI light level in DC operation (EOF=Emergency Output Level),	In DC-emergency case the DALI-Light Level is locked to prevent unwanted changes of the luminous flux.	LOCKED
Important for lighting design: If DALI-Light level is locked, the value of the preset DC-Lightlevel (in %) is required	the V-CG-SB.1 can not change the light level!	Pre-set DC-Light Level ** e.g. 15% (DALI-value 185 for logarithmic dimming curve)	(*2) 15%
Note: Important for the planning - N			
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	Ipeak = 34 A, TH = 180 us Describes the max. inrush current of all ballasts in a circuit, to contact rating of the circuit.	o calculate the maximum
Lumin		g, must be according to the standard DIN EN 60598-2-22 uminaires for emergency lighting)	

^{*1:} Communication between V-CG-SB.1 and 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

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.

Max. one DALI- Driver to wire with one EL-monitoring module

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.

^{*2:} The DC Output Level is locked in DC Mode to 15% as preset factory setting.

^{*3:} Not to be used in high risk areas, special release required.

Manufacturer:	Product:	
OSRAM GmbH		
Marcel-Breuer Str. 6	ETi DALI 75/220-240/500 D LT2 L	Hque Month
D-80807 München	(AM28130)	

Table 1

			AC-operation	ration		DC-Operation	ration		
Values for load range		Α	AC-operation @ 230V (mA)	AC-operation @ 240V (mA)	186V (mA)	216V (mA)	240V (mA)	260V (mA)	
Maximum Load /mA	Uout= 54 V lout= 120 mA P= 6,5 W	m A W	54	54	22	22	22	22	
Maximum Load /mA	Uout= 75 V lout= 500 mA P= 37,5 W	mA W	190	183	40	40	40	40	
Maximum Load /mA	Uout= 240 V lout= 312 mA P= 75 W	V mA	354	341	64	64	25	53	
Short Load			33	33	11	11	11	11	
Open Load			33	33	11	11	11	11	