

Requirements for o	dimmable DALI control gear	s for fluorescent lamps and LED	Version 3		
Manufacturer: OSRAM GmbH Marcel-Breuer-Str. 6 D-80807 München	ECG-type: OTi DALI 50/220-240/1A4 NFC L Date: 16.12.2019	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 <sup>+</sup> 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: $\Delta$ 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	(*2) 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, mark	king 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)	(*1) 15%		
Note: Important for the planning - I					
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 = 21 A, TH = 230 us  Describes the max. inrush current of all ballasts in a circuit, to calculate the maximum contact rating of the circuit.			
		g, must be according to the standard DIN EN 60598-2-22 uminaires for emergency lighting)			

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

<sup>\*1:</sup> 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.

<sup>\*2:</sup> Not to be used in high risk areas, special release required.

Manufacturer:		Product:	
OSRAM GmbH			
Marcel-Breuer Str	. 6	OTi DALI 50/220-240/1A4 NFC L	OSRAM GmbH
D-80807 Münchei	1	( AM31195 )	OSKAWI GIIIDII

Table 1

			AC-op	eration	DC-Operation ( Current measured at driver's default DC level of 15% )			
Values for load range			AC-operation @ 230V ( mA )	AC-operation @ 240V ( mA )	186V ( mA )	216V ( mA )	240V ( mA )	260V ( mA )
Minimum Load /mA	Uout= lout= P=	15 V 400 mA 4 W	53	53	20	18	18	15
Mid Load /mA	Uout= lout= P=	34 V 794 mA 27 W	146	140	41	36	33	33
Maximum Load /mA	Uout= lout= P=	54 V 1000 mA 54 W	293	281	70	61	55	52
Short Load			26	27	13	13	13	13
Open Load			26	27	13	13	13	13

## Remarks:

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