

	dimmable DALI control geal	rs for fluorescent lamps and LED	Version 4		
Manufacturer: OSRAM GmbH Marcel-Breuer-Str. 6 D-80807 München	ECG-type: OTi_DALI_60_220_240_1A4_NFC_I EAN: 4062172201834 Date: 10.10.2021				
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			
Control gear compatible with CEAG STAR-Technology:	Phase-cut telegram (PAT): max. 30 phases (half waves) with max. 60° phase-cuts During the CEAG STAR switching process, up to 30 half-waves are cut at a maximum of 60°. The control gear must not exhibit any malfunctions such as switching off, flickering		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	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, ma	arking is not applicable		Manufacturer		
Features:	CEAG-Data:	Explanation:	Manufacturer information:		
mportant 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.			
mportant 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.			
mportant for lighting design: f 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)			
Note: Important for the planning -	Max. no. Of luminiares per circuit Max. permitted inrush current per circuit:				
mportant 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	The declaration of the inrush current of the luminaire is important, to calculate the max possible luminaires on one circuit, to consider the max. contact load limitation of the circ			
Lumi		g, must be according to the standard DIN EN 60598-2-22 uminaires for emergency lighting)			

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.

17.March.2020

Manufacturer:	Product:	
OSRAM GmbH		
Marcel-Breuer Str. 6	OTi_DALI_60_220_240_1A4_NFC_I	OSRAM GmbH
D-80807 München	(4062172201834)	OSIGNI GILISII

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= lout= P=	15 V 600 mA 9 W	62	61	20	19	19	20
Medium Load /mA	Uout= lout= P=	22 V 1400 mA 31 W	163	157	33	29	27	26
Maximum Load /mA	Uout= lout= P=	43 V 1400 mA 60 W	301	288	57	50	46	43
Short Load			27	28	15	15	14	13
Open Load			27	28	15	14	14	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.