

Requirements for o	dimmable DALI control gear	rs for fluorescent lamps and LED	Version 3		
Manufacturer:  DSRAM GmbH  Marcel-Breuer-Str. 6  Type / description:					
D-80807 München	ECG-type: OTi DALI 75/220-240/500	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	1 "			
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		
control gear complies with the tandard:	DIN EN 61347-2-3 (incl. Attachment J)	Particular requirements for AC and/or DC supplied electronic control gear for fluorescent lamps	Not relevant		
nly for LED: Control gear complies with the tandard:	DIN EN 62384	DC. Or AC supplied electronic control gear for LED modules Performance requirements			
inly for LED: Control gear complies with the tandard:	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)				
Fullfilled the standard:	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		
ote: VDE 0108 is not a standard for ECG, mark	ing is not applicable				
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.	Yes		
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.	Locked		
nportant for lighting design: DALI-Light level is locked, the value f 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)	15%		
Note: Important for the planning -					
mportant for the contact load SKU:  Max. inrush current each onverter/luminaire in C-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	Inrush current of one LED driver: Ipeak = 28 A, Th = 190 μs  Describes the max. inrush current of all ballasts in a circuit, to calculate the maximum			
	SOU CG-S // S <sup>+</sup> => 250 A SU S <sup>+</sup> => 250 A	contact rating of the circuit.			

(particular requirements - Luminaires for emergency lighting)

This LED driver declaration does not substitute a system test and release in a specific installation.

Date: 24.July 2020

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

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

Manufacturer:	Product:	
OSRAM GmbH		
Marcel-Breuer Str. 6 D-80807 München	OTi DALI 75/220-240/500 D NFC F L ( AM35716 )	OSRAM GmbH

Table 1

			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% )			
Values for load range			I <sub>N</sub> @U <sub>N</sub> = 230V [ mA trms ]	I <sub>N</sub> @U <sub>N</sub> = 240V [ mA trms ]	I <sub>N</sub> @U <sub>N</sub> = 186V [ mA trms ]	I <sub>N</sub> @U <sub>N</sub> = 216V [ mA trms ]	I <sub>N</sub> @U <sub>N</sub> = 240V [ mA trms ]	I <sub>N</sub> @U <sub>N</sub> = 260V [ mA trms ]
Minimum Load /mA	Uout= lout= P=	54 V 120 mA 6,5 W	48	48	18	17	15	14
Medium Load /mA	Uout= lout= P=	150 V 250 mA 37,5 W	186	178	46	40	36	32
Maximum Load /mA	Uout= lout= P=	150 V 500 mA 75 W	361	347	77	67	60	56
Open Load /mA			24	24	11	11	11	11
Short Load /mA			24	24	11	11	11	11

## 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.