

Requirements for	dimmable DALI control gear	rs for fluorescent lamps and LED	Version 3			
Manufacturer: DSRAM GmbH Marcel-Breuer-Str. 6 D-80807 München	ECG-type: OTi DALI 75/220-240/500 I	Manufacturer information Complies: YES/NO				
Features:	CEAG data:	Explanation:	1			
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 witch-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: ΔI 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				
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			
lote: VDE 0108 is not a standard for ECG, mark	king is not applicable					
eatures:	CEAG-Data:	Explanation:	Manufacturer information:			
mportant for function test! According to IEC 62386 Part 102 Support of : JALI command 145 Query Control Gear) JALI 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			
mportant for lighting design: 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	Pre-set DC-Light Level ** e.g. 15% (DALI-value 185 for logarithmic dimming curve)	15%			
Note: Important for the planning - I	Max. no. Of luminiares per circuit					
mportant for the contact load SKU: fax. 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 SOU CG-S // S* => 250 A SU S* => 250 A	Ipeak = 28 A, TH = 190 μs Describes the max. inrush current of all ballasts in a circuit, to calculate the maximum contact rating of the circuit.				
	naires, which are used for emergency lighting (particular requirements - Li	g, must be according to the standard DIN EN 60598-2-22 uminaires for emergency lighting)				

^{*}Control of V-CG-SB.1 to the DALI LED driver is 100% done via DALI-commands according to IEC 62386-101 /-102

Not to be used in high risk areas, special release required. 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.

Date: 12.February.2019

so the DALI LED driver must sign with the DALI logo

** The DC-Light Level preset value ex factory (luminous flux in case of DC-voltage) can be adjusted project depending via DALI Magic and T4 Tronic in AC-operation
To enable the adjustment of the luminous flux via the DALI - Module V-CG-SB.1, the DC detection has to be deactivated via T4T.

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

Table 1

LED controller type	Values for load range		IN in AC-operation (230V) / mA (trms)	IN in AC- operation (240V) / mA (trms)	IN in DC-operation (186V) / mA (trms)	IN in DC- operation (216V) / mA (trms)	IN in DC- operation (240V) / mA (trms)	IN in DC-operation (260V) / mA (trms)	
OTi DALI 75/220-240/500 D NFC F L	Maximum Load /mA	Uout= lout=	145V 500mA	355	340	77	66	59	55
	Medium Load /mA	Uout= lout=	150V 250mA	193	186	47	40	36	34
	Minimum Load /mA	Uout= lout=	55V 120mA	67	66	16	14	12	10
	No Load			49	49	0	0	1	1
	Short Load			49	49	0	1	1	1

Maximum inrush current for ECG in AC Operation:

Ipeak = 28 A

TH = $190 \mu s$