

Requirements for dimmable DALI control gears for fluorescent lamps and LED   Ianufacturer: IssRAM GmbH   Isarcel-Breuer-Str. 6 ECG-type: OTi DALI 25/220-240/700 NFC L (AM31196)   -80807 München Date: 16.12.2019							
Features:	CEAG data:	Explanation:	Complies: YES/NO				
Control gear suitable for LDC 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 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: $\Delta$ I in sum < 250 mA are allowed	YES				
only for flourescent lamps: Control gear complies with the standard:	DIN EN 60929	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:	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				
lote: VDE 0108 is not a standard for ECG, mar	king 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				
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 level !	Pre-set DC-Light Level ** e.g. 15% (DALI-value 185 for logarithmic dimming curve)	(*1) 15%				
Note: Important for the planning - I	Max. no. Of luminiares per circuit						
nportant for the contact load SKU: /lax. inrush current each onverter/luminaire in IC-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 <sup>+</sup> => 250 A   SU S <sup>+</sup> => 250 A	ted inrush current per circuit:(CG) => 120 AIpeak = 18 A, TH = 190 us(CG) => 180 AIpeak = 18 A, TH = 190 usA CG-S => 60 ADescribes the max. inrush current of all ballasts in a circuit, to calculate the maximumCG-S => 250 ADescribes the max. inrush current of all ballasts in a circuit./ S* => 250 AContact rating of the circuit.					
Lumir		g, must be according to the standard DIN EN 60598-2-22 uminaires for emergency lighting)					
This preset value ( luminous flux in	DC Mode to 15% as preset factory setting. case of DC-voltage) can be adjusted project de ninous flux via the V-CG-SB.1, the DC detection special release required.	pending via DALI Magic and T4 Tronic.					

Manufacturer:	Product:	
OSRAM GmbH		
Marcel-Breuer Str. 6	OTi DALI 25/220-240/700 NFC L	OSRAM GmbH
D-80807 München	( AM31196 )	

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 100 mA 1,5 W	32	32	14	14	15	16
Mid Load /mA	Uout= lout= P=	34 V 411 mA 14 W	78	75	25	22	21	21
Maximum Load /mA	Uout= Iout= P=	54 V 518 mA 28 W	142	138	42	35	33	31
Short Load			20	20	12	12	12	12
Open Load			20	20	12	12	12	12

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.