

Requirements for dimmable DALI control gears for fluorescent lamps and LED							
Manufacturer: OSRAM GmbH Marcel-Breuer-Str. 6 D-80807 München	ECG-type: OTi DALI 35/220-240/1A0 N	Manufacturer information Complies: YES/NO					
Features:	CEAG data:	Explanation:					
Control gear suitable for a DC voltage range:	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: Δ I in sum < 250 mA are allowed	YES				
only for flourescent lamps: Control gear complies with the standard:	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	N EN 61547  Equipment for general lighting purposes — EMC immunity requirements					
Fullfilled the DALI standards:	DIN EN 62386-101 /-102 / -207*	EN 62386-101 /-102 / -207* Control gear must have the DALI Logo*					
Note: VDE 0108 is not a standard for ECG, mar	rking 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 -	·						
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 SU S' => 250 A SU S' => 250 A SU S' => 250 A						
Lumir	naires, which are used for emergency lighting	I g, must be according to the standard DIN EN 60598-2-22 uminaires for emergency lighting)					

<sup>(</sup>particular requirements - Luminaires for emergency lighting)

\*1: The DC Output Level is locked in DC Mode to 15% as preset factory setting.

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

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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 35/220-240/1A0 NFC	OSRAM GmbH
D-80807 München	( AM35476 )	

Table 1

			DC-Operation AC-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 350 mA 5,25 W	44	44	17	15	15	14
Mid Load /mA	Uout= lout= P=	50 V 350 mA 17,5 W	98	98	29	25	23	22
Maximum Load /mA	Uout= lout= P=	33 V 1050 mA 35 W	174	170	40	35	33	29
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.