

Requirements for dimmable DALI control gears for fluorescent lamps and LED						
DSRAM GmbH Marcel-Breuer-Str. 6 D-80807 München	TECG-type: OTi DALI 40/220-240/1A0 N	Manufacturer information Complies: YES/NO				
Features:	CEAG data:	•				
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:Typical switch-over time of CEAG systems between180 ms - 450 msmains 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:	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)				
Fullfilled the standard:	IN 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			
Note: VDE 0108 is not a standard for ECG, mark	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: 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)	(*1) 15%			
Note: Important for the planning - I	Max. no. Of luminiares 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					
Lumir		g, must be according to the standard DIN EN 60598-2-22 uminaires for emergency lighting)				
This preset value (luminous flux in To enable the adjustment of the lun	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	pending via DALI Magic and T4 Tronic.				
 Not to be used in high risk areas, s Max. one DALI- Driver to wire with or 			Date: 25.February 2020			

Manufacturer:	Product:	
OSRAM GmbH		
Marcel-Breuer Str. 6	OTi DALI 40/220-240/1A0 NFC S	
D-80807 München	(AM31183)	

Table 1

			AC-operation		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=	20 V 500 mA 10 W	66	68	17	17	17	17
Mid Load /mA	Uout= lout= P=	20 V 1050 mA 21 W	116	116	19	19	19	19
Maximum Load /mA	Uout= lout= P=	38 V 1050 mA 40 W	200	200	33	33	33	33
Short Load			20	20	12	12	12	12
Open Load			17	17	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.

OSRAM GmbH