

Requirements for	dimmable DALI control gear	rs for fluorescent lamps and LED	Version 3			
Manufacturer: OSRAM GmbH Marcel-Breuer-Str. 6 D-80807 München	- ECG-type: OTi DALI 75/220-240/400 I	Manufacturer 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 ⁺ 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: Δl 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)	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			
Note: 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: 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	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: dax. 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 SOU CG-S // S* => 250 A SU S* => 250 A	Cuit: Ipeak = 22 A, TH = 255 μs Describes the max. inrush current of all ballasts in a circuit, to calculate the maxing contact rating of the circuit.				
Lumir		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 so the DALI LED driver must sign with the DALI logo

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

Only 1 DALI- Driver (DT8(1 address/2 channels) or DT6 (1 address/1 channel) to wire with one V-CG-SB.1, only 1 address possible with one 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: 20.May.2019

^{**} 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.

Not to be used in high risk greas experienced.

Manufacturer:	Product:	
OSRAM GmbH		
Marcel-Breuer Str. 6 D-80807 München	OTi DALI 75/220-240/400 D NFC TW L	OSRAM GmbH

Table 1 (DT6 - 1 DALI address/1 channel)

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 75/220-240/400 D NFC TW L	Maximum Load /mA	Uout= lout=	210V 350mA	353	339	65	66	60	55
	Medium Load /mA	Uout= Iout=	150V 350mA	260	250	51	51	45	42
	Minimum Load /mA	Uout= Iout=	80V 350mA	153	148	31	30	27	25
	No Load			32	33	3	2	2	2
	Short Load			32	33	2	2	2	2

Maximum inrush current for ECG in AC Operation:

Ipeak = 22 A

TH = 255 μs

Manufacturer:	Product:	
OSRAM GmbH		
Marcel-Breuer Str. 6 D-80807 München	OTi DALI 75/220-240/400 D NFC TW L	OSRAM GmbH

Table 2 (DT8 - 1 DALI address/2 channels; the two channels with identical current)

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)
	Maximum Load /mA	Uout= Iout=	210V 700mA	265	255	61	59	52	49
	Medium Load /mA	Uout= lout=	150V 700mA	198	190	49	47	43	40
	Minimum Load /mA	Uout= lout=	90V 700mA	132	129	36	34	31	29
	No Load CH1			146	142	33	32	29	27
	No Load CH2			140	136	33	31	28	26
	Short Load CH1			145	141	34	32	29	27
	Short Load CH2			140	136	35	33	30	28
	No Load CH1&CH2			31	33	12	12	13	12

Maximum inrush current for ECG in AC Operation:

Ipeak = 22 A

TH = 255 μs