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Manufacturer: nventronics GmbH Berliner Allee 65 86153 Augsburg, Germany	ECG-type: OT 40_170-240_0A7 4DIM NFC 0 Date: 04.12.2023	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 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: Δ I in sum < 250 mA are allowed	Yes			
Control gear compatible with CEAG STAR-Technology:	Phase-cut telegram (PAT): max. 30 phases (half waves) with max. 60° phase-cuts	During the CEAG STAR switching process, up to 30 half- waves are cut at a maximum of 60°. The control gear must not exhibit any malfunctions such as switching off, flickering	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 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					
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 on % 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)	75%			
Note: Important for the planning -	Max. no. Of luminiares per circuit					
nportant for the contact load SKU: flax. 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 1 x 6A (CG) => 60 A SKU 2 x 3A 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					

*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

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.

Manufacturer:	Product:		
Inventronics GmbH			
Berliner Allee 65	OT 40_170-240_0A7 4DIM NFC G3 CE	Inventronics GmbH	
86153 Augsburg, Germany	(AM41128)	inventionics diffibility	
www.inventronicsglobal.com			

Table 1

			AC-operation			DC-Operation (For DALI Devices @ default DC Dim level e.g. 15%)			
Values for load range		230VAC/50Hz Itrms_in (mA)	240VAC/50Hz Itrms_in (mA)	264VAC/50Hz Itrms_in (mA)	186VDC Idc_in (mA)	216VDC Idc_in (mA)	240VDC Idc_in (mA)	260VDC Idc_in (mA)	
Min. Load /mA	Uout= lout=	50 V 150 mA	30.0	30.8	33.1	22.5	20.6	20.3	20.4
			PF: 0.589	PF: 0.541	PF: 0.447	PF: NA	PF: NA	PF: NA	PF: NA
Mid. Load /mA	Uout= lout=	107 V 350 mA	103.3	99.5	92.2	125.4	107.4	96.8	92.8
			PF: 0.978	PF: 0.974	PF: 0.957	PF: NA	PF: NA	PF: NA	PF: NA
Max. Load /mA	Uout= lout=	107 V 700 mA	193.8	187.3	183.0	202.2	164.8	147.1	142.8
			PF: 0.986	PF:0.971	PF: 0.903	PF: NA	PF: NA	PF: NA	PF: NA
Short/Open Load			20.0	20.8	22.1	9.6	11.0	12.8	14.4
			PF: 0.04	PF: 0.04	PF: 0.04	PF: NA	PF: NA	PF: NA	PF: NA

Remarks:

- 1.) This table shows the currents consumption of the driver at three different operating points (Pmax, Pmid, Pmin) for AC and DC operation.
- 2.) This table is intended for rough design desicions . It is not a replacement for individual functional measurments!