

anufacturer: Type / description: ventronics GmbH arkring 31-33, 85748 Garching ECG-type: OT DX 165/170-240/1A0 DIMA NFC G2 CE (EAN: 4052899631717)				
Germany	Data: 09.05.2022	information Complies: YES/NO		
www.inventronicsglobal.com Features:	Date: 08.05.2023 CEAG data:	Explanation:	, , , , , , , , , , , , , , , , , , ,	
Control gear suitable for 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.	Not locked	
nportant 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) 100%	
Note: Important for the planning -				
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 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	3.3A/3000µs per pcs. The declaration of the inrush current of the luminaire is important, to calculate the m possible luminaires on one circuit, to consider the max. contact load limitation of the circuit.		

*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

(*1) Emergency feature is disable and factory setting is 100% of the Dali light level. In DC mode at the 100% of Dali light level, the output current is limited. It is possibe enable Emergency feature with DALI magic and Tuner 4 Tronic.

Max. 1 DALI- Driver to wire with 1 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.



Requirements for	dimmable DALI control gear	s for fluorescent lamps and LED	Version 5		
Manufacturer: Inventronics GmbH		Type / description:	Manufacturer		
Parkring 31-33 85748 Garching, Germany	ECG-type: OT DX 165/170-240/1A0 DIMA NI	information Complies: YES/NO			
www.inventronicsglobal.com Features:	Date: 08.05.2023 CEAG data:	Compiles: 120/Ne			
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		
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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		
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AC-operation:	SKU 1 x 6A CG-S => 250 A SOU CG-S // S* => 250 A SU S* => 250 A aires, which are used for emergency lighting	possible luminaires on one circuit, to consider the max. con			

Luminaires, which are used for emergency lighting, must be according to the standard DIN EN 60598-2-2: (particular requirements - Luminaires for emergency lighting)

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Somule Luctore

Manufacturer:
Inventronics GmbH
Parkring 31-33
85748 Garchning, Germany
www.inventronicsglobal.com

Products:

OT DX 165/170-240/1A0 DIMA NFC G2 CE
OT DX 165/170-240/1A0 DIMA NFC G2B CE

EAN: 4052899631717
EAN: 4052899631724

INVENTRONICS GmbH
IN

Table 1

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)
OT DX 165/170-240/1A0 DIMA NFC G2 CE OT DX 165/170-240/1A0 DIMA NFC G2B CE	Maximum Load /mA Uout = 38 V lout = 1050 mA	771	739	799	663	620	565
	Medium Load /mA Uout = 38 V lout = 525 mA	392	377	478	407	366	360
	Minimum Load /mA Uout = 15 V lout = 150 mA	90	91	83	64	65	60
	No Load	44	46	8	9	9	10
	Short Load	44	46	7	9	9	10

Maximum inrush current for ECG in AC Operation:

	Ipeak [A]	TH [μs]
OT DX 165/170-240/1A0 DIMA NFC G2 CE	3.3	3000
OT DX 165/170-240/1A0 DIMA NFC G2B CE	71	173