

FC G2 CE (EAN: 4052899631694)  Explanation:  Possible voltage range of the battery in emergency mode. (Not for AT-S* Systems required)  Typical switch-over time of CEAG systems between mains supply and emergency power supply  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:  A I in sum < 250 mA are allowed  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  AC and/or DC-supplied electronic control gear for tubular fluorescent lamps - Performance requirements  Particular requirements for AC and/or DC supplied electronic control gear for fluorescent lamps  DC. Or AC supplied electronic control gear for LED modules - Performance requirements  Lamp controlgear — Part 2-13: Particular requirements for d. c. or a. c. supplied electronic controlgear for LED modules  Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment  Equipment for general lighting purposes — EMC immunity requirements	Manufacturer information Complies: YES/NO Yes Yes Yes Yes Not relevant Not relevant Yes Yes Yes Yes	
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fluorescent lamps - Performance requirements  Particular requirements for AC and/or DC supplied electronic control gear for fluorescent lamps  DC. Or AC supplied electronic control gear for LED modules - Performance requirements  Lamp controlgear — Part 2-13: Particular requirements for d. c. or a. c. supplied electronic controlgear for LED modules  Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment  Equipment for general lighting purposes — EMC immunity	Not relevant  Yes  Yes  Yes	
control gear for fluorescent lamps  DC. Or AC supplied electronic control gear for LED modules - Performance requirements  Lamp controlgear — Part 2-13: Particular requirements for d. c. or a. c. supplied electronic controlgear for LED modules  Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment  Equipment for general lighting purposes — EMC immunity	Yes Yes Yes	
Performance requirements  Lamp controlgear — Part 2-13: Particular requirements for d. c. or a. c. supplied electronic controlgear for LED modules  Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment  Equipment for general lighting purposes — EMC immunity	Yes	
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characteristics of electrical lighting and similar equipment  Equipment for general lighting purposes — EMC immunity		
	Yes	
Control gear must have the DALI Logo*		
1		
Explanation:	Manufacturer information:	
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	
In DC-emergency case the DALI-Light Level is locked to prevent unwanted changes of the luminous flux.	Not locked	
Pre-set DC-Light Level e.g. 15% (DALI-value 185 for logarithmic dimming curve)	(*1) 100%	
it:  3.3A/3000µs per pcs.  The declaration of the inrush current of the luminaire is important, to calculate the mapossible luminaires on one circuit, to consider the max. contact load limitation of the circuit.		
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\*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.



Manufacturer: Type / description: Inventronics GmbH Berliner Allee 65 ECG-type: OT DX 110/170-240/1A0 DIMA NFC G2B CE (EAN: 4052899631700) 86153 Augsburg, Germany				
www.inventronicsglobal.com	Date: 08.05.2023	Complies: YES/NC		
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 <sup>+</sup> 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: $\Delta$ 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	
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) 100%	
Note: Important for the planning -	Max. no. Of luminiares per circuit			
mportant for the contact load SKU: Max. 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 <sup>+</sup> => 250 A	68A/131μs 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

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Manufacturer:	Products:		INVENTRONICS GmbH
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Berliner Allee 65	OT DX 110/170-240/1A0 DIMA NFC G2B CE	EAN: 4052899631700	inventronics
86153 Augsburg, Germany	01 DX 110/170-240/1A0 DIWA NI C 02B CL	LAN: 4032833031700	
www.inventronicsglobal.com			

## 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)
	Maximum Load /mA  Uout = 38 V  Iout = 1050 mA	520	497	510	470	393	388
	Medium Load /mA  Uout = 38 V  Iout = 525 mA	269	259	325	300	251	247
OT DX 110/170-240/1A0 DIMA NFC G2 CE OT DX 110/170-240/1A0 DIMA NFC G2B CE	Minimum Load /mA  Uout = 15 V  lout = 150 mA	80	83	67	58	52	49
	No Load	49	50	9	9	11	11
	Short Load	49	51	8	9	10	10

Maximum inrush current for ECG in AC Operation:

	Ipeak [A]	TH [μs]
OT DX 110/170-240/1A0 DIMA NFC G2 CE	3.3	3000
OT DX 110/170-240/1A0 DIMA NFC G2B CE	68	131