

Manufacturer: Type / description: Inventronics GmbH Parkring 31-33, 85748 Garching Germany www.inventronicsglobal.com Type / description: ECG-type: OT DX 40/170-240/1A0 DIMA NFC G2 CE (EAN: 4052899631649) Date: 08.05.2023					
CEAG data:	Explanation:				
186V - 260V DC (for Lead-Battery)	Possible voltage range of the battery in emergency mode. (Not for AT-S ⁺ Systems required)	Yes			
Switch-over time: 180 ms - 450 ms	Typical switch-over time of CEAG systems between mains supply and emergency power supply	Yes			
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			
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			
DIN EN 60929	AC and/or DC-supplied electronic control gear for tubular fluorescent lamps - Performance requirements	Not relevant			
DIN EN 61347-2-3 (incl. Attachment J)	Particular requirements for AC and/or DC supplied electronic control gear for fluorescent lamps	Not relevant			
DIN EN 62384	DC. Or AC supplied electronic control gear for LED modules - Performance requirements	Yes			
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			
DIN EN 55015 (Measurement on AC And DC)	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	Yes			
DIN EN 61547	Equipment for general lighting purposes — EMC immunity requirements	Yes			
DIN EN 62386-101 /-102 / -207*	Control gear must have the DALI Logo*	Yes			
king is not applicable					
CEAG-Data:	Explanation:	Manufacturer information:			
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			
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			
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)	(*1) 100%			
Max. no. Of luminiares per circuit					
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	27A/217μs per pcs. The declaration of the inrush current of the luminaire is important, to calculate the mar possible luminaires on one circuit, to consider the max. contact load limitation of the circuit.				
e	Date: 08.05.2023 CEAG data: 186V - 260V DC (for Lead-Battery) Switch-over time: 180 ms - 450 ms Stable current consumption after less than 1.6 sec. maximum. Phase-cut telegram (PAT): max. 30 phases (half waves) with max. 60° phase-cuts DIN EN 60929 DIN EN 61347-2-3 (incl. Attachment J) DIN EN 62384 DIN EN 65384 DIN EN 65015 (Measurement on AC And DC) DIN EN 6547 DIN EN 62386-101 /-102 / -207* rking is not applicable CEAG-Data: According to IEC 62386 Part 102 In case of locked DALI light level in DC operation (EOF=Emergency Output Level), the V-CG-SB.1 can not change the light level! - Max. no. Of luminiares per circuit Max. permitted inrush current per circuit: SKU 2 x 3A (CG) => 120 A SKU 1 x 6A (CG) => 180 A SKU 2 x 3A CG-S => 250 A SKU 1 x 6A CG-S => 250 A SKU 1 x 6A CG-S => 250 A SKU 1 x 6A CG-S => 250 A SCU CG-S // S* => 250 A SOU CG-S // S* => 250 A	ECG-type: OT DX 40/170-240/1A0 DIMA NFC G2 CE (EAN: 4052899631649) Date: 08.05.2023 CEAG data: Explanation: 186V - 260V DC (for Lead-Battery) (Not for AT-S* Systems required) Switch-over time: 180 ms - 450 ms Typical switch-over time of CEAG systems between mains supply and emergency power supply and emergency powe			

*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: nventronics GmbH Parkring 31-33	Type / description: ECG-type: OT DX 40/170-240/1A0 DIMA NFC G2B CE (EAN: 4052899631656)					
85748 Garching, Germany www.inventronicsglobal.com	Date: 08.05.2023	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: 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			
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					
nportant for the contact load SKU: fax. 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	27A/217μs per pcs. The declaration of the inrush current of the luminaire is important, to calculate the mossible luminaires on one circuit, to consider the max. contact load limitation of the circuit.				

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OT DX 40/170-240/1A0 DIMA NFC G2 CE OT DX 40/170-240/1A0 DIMA NFC G2B CE

EAN: 4052899631649 EAN: 4052899631656 INVENTRONICS GmbH
INVENTRONICS

Table 1

LED controller type	Values for load ra	nge	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 40/170-240/1A0 DIMA NFC G2 CE OT DX 40/170-240/1A0 DIMA NFC G2B CE	Maximum Load /mA Uout = Iout =	38 V 1050 mA	200	177	204	175	156	143
	Medium Load /mA Uout = Iout =		104	100	126	107	96	89
	Minimum Load /mA Uout = lout =	15 V 150 mA	31	31	20	17	16	15
	No Load		19.7	21.0	3.2	3.6	3.9	3.1
	Short Load		20.2	21.0	2.3	2.6	2.9	3.0

Maximum inrush current for ECG in AC Operation:

	Ipeak [A]	TH [μs]
OT DX 40/170-240/1A0 DIMA NFC G2 CE	27	217
OT DX 40/170-240/1A0 DIMA NFC G2B CE	27	217