

Investments GmAH Parking 31-33, SPE4 Gueshing EC6-type: OT DX 79170-240140 DMA NC QC EE (GNA 405289601463) Dets: 06.05.203 Det	Requirements for	dimmable DALI control gear	s for fluorescent lamps and LED	Version 5		
Features:         CEAG data:         Explanation:           Cored ges statistics         Explanation:         Provide construction of the balancy in new gency mode.         Yes           Directing ges statistics         Statistic-ver time of CEAG system sequency in construction.         Yes           Directing ges statistics         Statistic-ver time.         Yes         Yes           Statistic-ver time.         Statistic-ver time.         Yes         Yes         Yes           Statistic-ver time.         DN IN 66232         Control Co-vergate provide time.         Yes           Statistic-ver time.         DN IN 66337-23 (ncl. Attachment.)         Drug time.         Not relever time.           Statistic-ver time.         DN IN 61347-2-13         Control Co-vergate provergat time.         Yes <t< th=""><th colspan="4">Inventronics GmbH Parkring 31-33, 85748 Garching Germany ECG-type: OT DX 75/170-240/1A0 DIMA NFC G2 CE (EAN: 4052899631663)</th></t<>	Inventronics GmbH Parkring 31-33, 85748 Garching Germany ECG-type: OT DX 75/170-240/1A0 DIMA NFC G2 CE (EAN: 4052899631663)					
In DC: volkinge range:     MWV- 3807 UC (ptr Lask Battery)     (Pate for ATS* Systems requirements)     Yes       Cartrol gear comparison with the south of the system?     Switch-over time: 1 (the for ATS* System perception of the control gear after 1 & second and the south of the system is the south of the system is the south of the south of the system is the south of the system is the south of the south of the system is the south of the control gear after 1 & south of the south of t			Explanation:	-		
switch-court time of the system?     100 ms - 450 ms     minits supply and emergency power supply     1785       Starting behavior of the control gest:     Stable current consumption     A stable operation of the control gest stafe 1.5 seconds of minits and the start accurrent to the control gest stafe 1.5 seconds of minits accurrent state 2.0 minits and the control gest stafe 1.5 seconds of minits accurrent state 2.0 minits and the control gest stafe 1.5 seconds of minits accurrent state 2.0 minits		186V - 260V DC (for Lead-Battery)		Yes		
Barting behavior of the control gass     Subble current consumption after less than 1.6 sec. maximum.     start up is required for the optity functionality of the individual at 1 is non-280 mA are allowed     Yes       During the CRA CPA are allowed     Phase-cut telegram (PAT): max. 30 phases (haff waves) with max. 60 phase-cuts less man 1.6 sec. maximum.     Using the CRA CPA are allowed     Yes       During the CRA CPA are allowed     During the CRA CPA are allowed     Ves       Control gear completive with CRA control gear complexities with the tandido.     Dix EN 6029     AC andror DC suppled detectronic control gear control gear for the control gear for LED module - tect with LED.     Not relev the standard.       Dix EN 61267-2-3 (incl. Attachment J)     Particular requirements of a control gear for LED module - control gear complex with the tandard.     Dix EN 61267-2-3 (incl. Attachment J)     Dix C Or AC supplied detectronic control gear complex with the tandard.     Dix EN 61267-2-3 (incl. Attachment J)     Dix C Or AC supplied detectronic control gear for LED module - section tandard.     Yes       Control gear complex with the tandard.     Dix EN 61267-2-13     Lamp controlgear - entrol tandard.     Yes       Control gear complex with the tandard.     Dix EN 61367-2-13     Lamp controlgear - entrol tandard.     Yes       Control gear controls with the tandard.     Dix EN 61367-10127-207     Control gear must have the DALI Logo*     Yes       Cullified the standard.     Dix EN 62366 Part 102     To detect a lamp failure, the V-CG-SB.1 module scat- tandard.						
Control gear Complexity Comparison         max. 30 phases (half waves) with max. 60         weis are cut at a maximum of 60 <sup>-</sup> . The control gear must not exhibit any maturchices such any maturchices such any maturchices such any maturchices such and DC supplied electronic control gear complex with the transdard.         Not relev           control gear complex with the transdard.         DN EN 60329         AC and/or DC-supplied electronic control gear for tubular         Not relev           control gear complex with the transdard.         DN EN 61347-2-13 (incl. Attachment.J)         Particular requirements for d. C or a. c. supplied electronic control gear for LED modules - Pertomance requirements for d. C or a. c. supplied electronic control gear for LED modules - Pertomance requirements for d. C or a. c. supplied electronic control gear for LED modules - Pertomance requirements for d. C or a. c. supplied electronic control gear for LED modules - Pertomance requirements for d. C or a. c. supplied electronic control gear for LED modules - Pertomance requirements for d. C or a. c. supplied electronic control gear for LED modules - Pertomance requirements for d. C or a. c. supplied electronic control gear for LED modules - Pertomance requirements for d. C or a. c. supplied electronic control gear for LED modules - Pertomance requirements for d. C or a. c. supplied electronic control gear for LED modules - Pertomance requirements for d. C or a. c. supplied electronic control gear for LED modules - Pertomance requirements for d. Control gear must have the DALI Logo*         Yes           rullified the standard:         DN EN 65365         CEAG-Data: To detect a lamp failure, the VCG-SB.1 modules end DALI command 146 DALI command 146 DALI command 40 feCC 0. moting is not applicable for C 0. pertion region for the supp	Starting behavior of the control gear:		start up is required for the right functionality of the individual monitoring. With max. 20 luminaires for one current circuit:			
Control gear complex with the standard:         DIN EN 65929         Act and/or DL-subplet all section control gear for tubular for tubular and the future section control gear for tubular for the standard:         Not relev           and/or futurescent lamps:         DIN EN 61347-2-3 (incl. Attachment J)         Paticular requirements for AC and/or DC supplet electronic control gear for LEB modules - Yes         Not relev           Canced gear complex with the standard:         DIN EN 63347-2-13 (incl. Attachment J)         Control gear on futurescent lamps:         Not relev           Canced gear complex with the standard:         DIN EN 63347-2-13 (incl. Attachment J)         Control gear for LEB modules - Yes         Yes           Canced gear complex with the standard:         DIN EN 65915 (Wessurement on AC And DC)         Lamp controlgear — Part 2-13: Particular requirements of Act and DC (incl. Attachment J)         Yes           Fulfilied the standard:         DIN EN 61547         Equipment for general lighting purposes — EMC immunity         Yes           Fulfilied the DALI standards:         DIN EN 61547         Equipment for general lighting purposes — EMC immunity         Yes           Fulfilied the standard:         DIN EN 62386-101 / 102 / -207*         Control gear must have the DALI Logo*         Yes           Fulfilied the CALI standards:         DIN EN 62386-Part 102         To detect a lamp failure, in EV-CG-SB.1 module send DALI command are necessary to ensure the lamp failure detection, and must be support by the control gear.		max. 30 phases (half waves) with max. 60°	waves are cut at a maximum of 60°. The control gear must	Yes		
Control gear complex with the standard:         DN EN 61347-2-3 (incl. Attachment.))         Control gear for functionation tamps         Not relev           control gear complex with the standard:         DN EN 62384         DC. Or AG supplied detoronic control gear for Larsensen tamps         Yes           control gear complex with the standard:         DN EN 63947-2-13         Lar Control gear controlgear or pairs -313: Particular requirements for d. c. or a. c. supplied detoronic controlgear for LED modules - for four detains of the standard:         Yes           control gear complex with the standard:         DN EN 65015         Limits and methods of measurement or foral od disturbance distu	Control gear complies with the	DIN EN 60929		Not relevant		
Control gear complex with the standard:         DN EN 62384         DC Dr AC supplied electronic control gear for LED modules - Parliamance requirements         Yes           abt/or LED:         DN EN 6347-2-13         Lamp controlgear — Parl 2-13: Particular requirements for d. s. or a. c. supplied dectronic controlgear for LED modules - Parliamance requirements         Yes           Fulfilied the standard:         DN EN 55015         Lamp controlgear — Parl 2-13: Parlicular requirements for d. s. or a. c. supplied dectronic controlgear for LED modules - Parliamace requirements         Yes           Fulfilied the standard:         DN EN 55015         Esuperation for general lighting purposes — EMC Immunity         Yes           Fulfilied the standard:         DN EN 65367         Esuperation for gear must have the DALI Logo*         Yes           Fulfilied the standard:         DN EN 65367         Esuperation for gear must have the DALI Logo*         Yes           Fulfilied the standard:         DN EN 65367         Esuperation for gear must have the DALI Logo*         Yes           Fulfilied the standard:         DN EN 65367         Esuperation for gear must have the DALI Logo*         Yes           Fulfilied the standard:         DN EN 65367         Explanation:         Manufacturer information:         Manufacturer information:           According to EC 6336 Part 102         According to EC 6336 Part 102         Dr Los formand qerise (145/146) to the DALL led to for. The DAL Logo the control	Control gear complies with the	DIN EN 61347-2-3 (incl. Attachment J)		Not relevant		
Control gear complex with the standard:         DN EN 61347-2-13         Lamp controlgear — PAT 2-13 (a control et all multiplication on tell control et all co	Control gear complies with the	DIN EN 62384		Yes		
Fulfilled the standard:         (Measurement on AC And DC)         characteristics of electrical lighting and similar equipment         Yes           Fulfilled the standard:         DIN EN 61547         Equipment for general lighting purposes — EMC immunity         Yes           Fulfilled the DALI standards:         DIN EN 62386-101 /-102 /-207*         Control gear must have the DALI Logo*         Yes           Note: UPO 1018 a not a standard for ECG, marking is not applicable         Explanation:         Manufacturer information:           Features:         CEAG-Data:         Explanation:         Manufacturer information:           Recording to IEC 62386 Part 102         According to IEC 62386 Part 102         To detect a lamp failure, the V-CG-SB.1 module send DALI command sare necessare         Yes           Support of :         DALI command 145         In Co-emergency cases the DALI-Light Level is locked to represent unsmarked hanges of the luminous flux.         Yes           DALI command 146         In case of locked DALI light level in DC operation; IDCF =Emergency Output Level, is locked to prevent unvaried dhanges of the luminous flux.         In CO-emergency cases the DALI-Light Level is locked to represent submitted innush current per circuit: SKU 2 × 3A CG-S = 250 A SU 1 × 8A (CG) = 100 A SKU 1 × 8A (CG) = 100 A SKU 2 × 3A CG-S = 250 A SU 2 × 3A CG-S = 25	Control gear complies with the	DIN EN 61347-2-13		Yes		
Full lied in e standard:         UNIX EN 01947         requirements         requirements         requirements         res           Fulfilled the DALI standards:         DIN EN 62386-101 /-102 /-207*         Control gear must have the DALI Logo*         Yes           Features:         CEAG-Data:         Explanation:         Manufacturer information:           Important for function test!         According to IEC 62386 Part 102         According to IEC 62386 Part 102         To detect a lamp failure, the V-CG-SB.1 module send DALI commands are necessary to ensure the lamp. Tailure detection, and must be support by the control gear.         Yes           DALI command 146         Query Control Gear)         In case of locked DALI light level in DC operation:         In DC-emergency case the DALI-Light Level is locked to prevent unwanted changes of the luminous flux.         Not lock           Important for Iboling design: If DALI-Light tevel is 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 lock           Important for the planning - Max. no. Of luminiares per circuit:         Max. permitted inrush current per circuit:         SU 2 x3A (CG) => 120 A         SU 1 x 6A (CG) => 250 A           Note: important for the contact load SKU: X 1X 6A (CG) => 250 A         SU 2 x3A (CG) => 250 A         The declaration of the innush current of the luminaire is important, to calculate I possible luminaires on one circuit, to consider the max. contact loa	Fullfilled the standard:			Yes		
Weix: VEE 0108 is not a standard for ECG, marking is not applicable Features: CEAG-Data: Explanation: Manufacturer information: To detect a lamp failure, the V-CG-SB.1 module send DALI command 146 Query Lamp Failure) In case of locked DALI light level in DC operation (EOF=Emergency Output Level), Max. Incoded, the value the V-CG-SB.1 con not change the light Max. Incode Situ: SKU 1 x 6A CG = x 250 A SU 3* x 250 A	Fullfilled the standard:	DIN EN 61547		Yes		
Features:         CEAG-Data:         Explanation:         Manufacturer information:           Important for function test!         According to IEC 62386 Part 102         To detect a lamp failure, the V-CG-SB.1 module send DALI commands are necessary to ensure the lamp failure (st45/146) to the DALI LED driver. These DALI commands are necessary to ensure the lamp failure (st45/146) 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           DALI command 146         In case of locked DALI light level in DC operation: (CO separation: IP C-EBR 1 can not change the light level)         In CC-emergency case the DALI-Light Level is locked to prevent unwanted changes of the luminous flux.         Not lock           Important for Coperation:         In case of locked DALI light level in DC operation (EOF=Emergency Output Level), level 1         In CC-emergency case the DALI-Light Level is locked to prevent unwanted changes of the luminous flux.         Not lock           Important for lighting design:         It be verified in rush current the recircuit: Stu 2 x 3A (CG) => 120 A         Stu 1 x 6A (CG) => 250 A         Stu 1 x 6A (CG) => 250 A         Stu 2 x 3A (CG) => 250 A         Stu 1 x 6A (CG) => 250 A         Stu 2 x 3A (CG) => 250 A         Stu 3 x 5A (CG) => 250 A         Stu 3 x 5A (CG => >> 250 A         Stu 3 x 5A (CG => >> 250 A         Stu 4 x 15A (CG) => 250 A         Stu 5 x => 250 A         Stu 5 x => 250 A         Stu 5 x => 250 A </td <td>Fullfilled the DALI standards:</td> <td>DIN EN 62386-101 /-102 / -207*</td> <td>Control gear must have the DALI Logo*</td> <td colspan="2">Yes</td>	Fullfilled the DALI standards:	DIN EN 62386-101 /-102 / -207*	Control gear must have the DALI Logo*	Yes		
Peatures:       CEAG-Data:       Explanation:       information:         Important for function test!       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         DALI command 145       (Query Control Gear)       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 is locked, the value of the preset DC-Light level is locked, the value of the preset DC-Light level is locked, the value of the preset DC-Light level is locked. The value of the preset DC-Light level is locked. The value of the preset DC-Light level is locked. The value of the preset DC-Light level is locked. The value of the preset DC-Light level is locked. The value of the contact load SKU: SKU 2 x 3A (CG) => 120 A       3.3A/3000 µS per pcS.         Max. invola current each converter/luminaire in AC-Operation:       SKU 4 x 15A CG-S => 60 A       SKU 2 x 3A (CG) => 120 A         SKU 2 x 3A (CG) => 250 A       SU 0 CG-S // S' => 250 A       SU 0 CG-S // S' => 250 A         Luminaires, which are used for emergency lighting, must be according to the standard DIN EN 60598-2-22 (particular requirements - Luminaires 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       Su be 20 A         "Control of V-CG-SB.1 to the DALI LED driver is 100% of the Dali light level. In DC mode at the 100% of Dali light level, the output current is limited. It	Note: VDE 0108 is not a standard for ECG, mar	king is not applicable				
Important for function test!         According to IEC 62386 Part 102         To detect a lamp failure, the V-CG-SB.1 module send DALI command 145 Query Cantrol Gear)         Yes           According to IEC 62386 Part 102         DALI command 145 DALI command sere necessary to ensure the lamp failure detection, and must be support by the control gear.         Yes           DALI command 146 Query Cantrol CG ear)         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 !         In CC-emergency case the DALI-Light Level is locked to prevent unwanted changes of the luminous flux.         Not lock           moottant for lighting design: 10 ALI tight level         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 !         In CC-emergency case the DALI-Light Level is locked to prevent unwanted changes of the luminous flux.         Not lock           moottant for the planning - Max. no. Of luminiares per circuit: sku z x 3k (CG) => 120 A SkU 4 x 1, 5A CG-S => 250 A SUU GC-S // S* => 250 A         The declaration of the inrush current of the luminaire is important, to calculate t possible luminaires on one circuit, to consider the max. contact load limitatior circuit.           Control of V-CG-SB.1 to the DALI LED driver is 100% done via DALI-commands according to the standard DIN EN 60598-2-22 (particular requirements - Luminaires for emergency lighting)         The declaration of the inrush	Features:	CEAG-Data:	Explanation:			
DALL light level       In case of locked DALL light level in DC-prevent unwanted changes of the luminous flux.       Not lock         mportant for lighting design: 1 DALL-Light level is locked, the value of the preset DC-Light level is locked, the value of the preset DC-Light level is locked, the value of the preset DC-Light level is locked. The value of the contact load SKU: SKU 1 x 6A (CG = > 180 A SKU 1 x 6A (CG = > 250 A SU 1 x = 250 A SU 2 x	According to IEC 62386 Part 102 Support of : DALI command 145 Query Control Gear) DALI command 146	According to IEC 62386 Part 102	DALI command queries (145/146) to the DALI LED driver. These DALI commands are necessary to ensure the lamp			
If DALI-Light level is locked, the value of the preset DC-Lightlevel (in %) is required       Ievel I       Pre-set DC-Light Level e.g. 15% (DALI-value 185 for logarithmic dimming curve)       (*1) 100         Mote: Important for the planning - Max. no. Of luminiares per circuit       Max. permitted inrush current per circuit: SKU 2 x 3A (CG) => 120 A SKU 1 x 6A (CG) => 120 A SKU 2 x 3A (CG) => 120 A SKU 1 x 6A (CG) => 120 A SKU 2 x 3A (CG) => 250 A SU 2 x 3A (CG) => 250 A SU 2 x 3A (CG) => 250 A SU 2 x 3A (CG-S == 250 A SU 2 x 3A (CG-S == 250 A SU 2 x 3A (CG-S == 250 A S				Not locked		
Important for the contact load SKU:       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)       => 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         SU 2 converter/luminaire in         AC-operation:         SU 2 x 3A CG-S => 250 A         SU 2 converter/luminaire in         SU 2 x 3A CG-S => 250 A         SU 2 converter/luminaire in         SU 2 x 3A CG-S => 250 A         SU 2 converter/luminaires, which are used for emergency lighting, must be according to the standard DIN EN 60598-2-22 (particular requirements - Luminaires 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         (*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 possible 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.	If DALI-Light level is locked, the value of the preset DC-Lightlevel ( in %) is required	level !		(*1) 100%		
Important for the contact load SKU: Max. inrush current each converter/luminaire in AC-operation:       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 SU CG-S // S* => 250 A SU CG-S // S* => 250 A       The declaration of the inrush current of the luminaire is important, to calculate the possible luminaires on one circuit, to consider the max. contact load limitation circuit.         Luminaires, which are used for emergency lighting, must be according to the standard DIN EN 60598-2-22 (particular requirements - Luminaires 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         *(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 possible 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.	Note: Important for the planning -					
(particular requirements - Luminaires 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 (*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 possible 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.	Max. inrush current each converter/luminaire in	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	<b>3.3A/3000μs per pcs.</b> The declaration of the inrush current of the luminaire is important, to calculate the mat possible luminaires on one circuit, to consider the max. contact load limitation of the			
*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 possible 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.	Lumin		-			
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 possible 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.						
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.			oraing to IEC 62386-101 /-102			
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.			DC mode at the 100% of Dali light level, the output current is lir	nited. It is possibe enabl		
			st be consider! Some devices don`t detect a failure if one lamp	is defect. Date: 08.05.2023		
Date: 08.05.2023				1 1		



Manufacturer:     Type / description:       Inventronics GmbH     ECG-type: OT DX 75/170-240/1A0 DIMA NFC G2B CE (EAN: 4052899631670)       85748 Garching Germany     Date:     08 05 2023					
www.inventronicsglobal.com Features:	Date: 08.05.2023 CEAG data:	Explanation:	Complies: YES/NC		
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 <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		
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 : <b>JALI command 145</b> Query Control Gear) <b>JALI command 146</b> 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 Max. permitted inrush current per circuit:				
mportant for the contact load SKU: /lax. inrush current each converter/luminaire in	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	t: 45A/232µs per pcs. The declaration of the inrush current of the luminaire is important, to calculate the possible luminaires on one circuit, to consider the max. contact load limitation o circuit.			
AC-operation:	SKU 1 x 6A CG-S => 250 A SOU CG-S // S <sup>+</sup> => 250 A SU S <sup>+</sup> => 250 A				
Lumin		, must be according to the standard DIN EN 60598-2-22 uminaires for emergency lighting)			
Control of V-CG-SB.1 to the DALI LEI o the DALI LED driver must sign with	D driver is 100% done via DALI-commands acc				
*1) Emergency feature is disable and Emergency feature with DALI magic ar		DC mode at the 100% of Dali light level, the output current is lin	nited. It is possibe enable		
flax. 1 DALI- Driver to wire with 1 V		st be consider! Some devices don`t detect a failura_if one lamp	is defect.		



Requirements for	ummable DALI control gear	s for fluorescent lamps and LED	Version 5		
Manufacturer: Type / description: nventronics GmbH Parkring 31-33, ECG-type: OT DX 75/170-240/1A0 DIMA NFC G2P CE (EAN: 4052899631687) 15748 Garching Germany www.inventronics global.com Date: 08.05.2023					
www.inventronicsglobal.com Features:	CEAG data:	Explanation:	Complies: YES/NO		
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		
Note: VDE 0108 is not a standard for ECG, mark	king is not applicable	Γ			
Features:	CEAG-Data:	Explanation:	Manufacturer information:		
mportant for function test! wecording to IEC 62386 Part 102 Support of : <b>JALI command 145</b> Query Control Gear) <b>JALI command 146</b> 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 -					
mportant for the contact load SKU: Max. inrush current each zonverter/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	<b>3.3A/3000μs per pcs.</b> The declaration of the inrush current of the luminaire is important, to calculate the mat possible luminaires on one circuit, to consider the max. contact load limitation of the circuit.			
Lumina		g, must be according to the standard DIN EN 60598-2-22			
	D driver is 100% done via DALI-commands acc	uminaires for emergency lighting) ording to IEC 62386-101 /-102			
to the DALI LED driver must sign with *1) Emergency feature is disable and t Emergency feature with DALI magic ar	factory setting is 100% of the Dali light level. In	DC mode at the 100% of Dali light level, the output current is lir	nited. It is possibe enable		
Max. 1 DALI- Driver to wire with 1 V	-CG-SB.1	st be consider! Some devices don`t detect a failure if one lamp			
			Date: 08 05.2023		
		abriel	e Luciote		

Manufacturer:	Products:		INVENTRONICS GmbH
	OT DX75/170-240/1A0 DIMA NFC G2 CE	EAN: 4052899631663	(p) (optpop) op
Parkring 31-33, 85748 Garching Germany	OT DX75/170-240/1A0 DIMA NFC G2B CE	EAN: 4052899631670	inventronics
www.inventronicsglobal.com	OT DX75/170-240/1A0 DIMA NFC G2P CE	EAN: 4052899631687	

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 DX75/170-240/1A0 DIMA NFC G2 CE OT DX75/170-240/1A0 DIMA NFC G2B CE OT DX75/170-240/1A0 DIMA NFC G2P CE	Maximum Load /mA Uout = 38 V Iout = 1050 mA	362	347	385	327	274	252
	Medium Load /mA Uout = 38 V Iout = 525 mA	188	181	231	194	174	160
	Minimum Load /mA Uout = 15 V Iout = 150 mA	61	65	39	33	30	28
	No Load	47.1	49.4	6.0	6.7	7.3	7.9
	Short Load	47.4	49.4	4.8	5.6	6.2	6.7

Maximum inrush current for ECG in AC Operation:		Ipeak [A]	TH [μs]
	OT DX75/170-240/1A0 DIMA NFC G2 CE	3.3	3000
	OT DX75/170-240/1A0 DIMA NFC G2B CE	45	232
	OT DX75/170-240/1A0 DIMA NFC G2P CE	3.3	3000