

Anforderungen an elektronische Betriebsgeräte für Leuchtstofflampen und LEDs

Formulare

zur Verfügung gestellt von www.TALPA.lu, Ihrem Experten für Notbeleuchtung in Luxemburg - **TALPA**

Laden Sie sich auf unserer Website die aktuellen Anforderungen an elektronische nicht dimmbare Betriebsgeräte für Leuchtstofflampen und LEDs herunter.

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Requirements for electronic non-dimmable control gears for fluorescent lamps and LED			Version 14
Manufacturer:	Type / description:		Manufacturer information Complete: YES/NO
Control gear suitable for a DC voltage range:	CEAG date: 186V - 280V DC (for Lead-Battery)	Explanation: Possible voltage range of the battery in emergency mode. (not for AT-2 - Systems required)	YES <input type="checkbox"/> NO <input type="checkbox"/>
Control gear compatible with the switch-over time of the system?	Switch-over time: 180 ms - 400 ms	Typical switch-over time of CEAG systems between mains supply and emergency power supply	YES <input type="checkbox"/> NO <input type="checkbox"/>
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 (A) in max. 250 mA are allowed.	YES <input type="checkbox"/> NO <input type="checkbox"/>
Control gear compatible with CEAG STAR Technology:	Phase-cut telegram (PAT): max. 30 phases (half waves) with max. 60° phase-cut	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 <input type="checkbox"/> NO <input type="checkbox"/>
Only for fluorescent lamps:	DIN EN 60929	AC and/or DC-supplied electronic control gear for tubular fluorescent lamps - Performance requirements	YES <input type="checkbox"/> NO <input type="checkbox"/>
Control gear compatible with the standard:	DIN EN 61347-2-2 (incl. Attachment 2)	Particular requirements for AC and/or DC supplied electronic control gear for fluorescent lamps	YES <input type="checkbox"/> NO <input type="checkbox"/>
Only for LED:	DIN EN 62384	AC or DC supplied electronic control gear for LED modules - Performance requirements	YES <input type="checkbox"/> NO <input type="checkbox"/>
Control gear compatible with the standard:	DIN EN 61347-2-13	Particular requirements for AC or DC supplied electronic control gear for LED modules	YES <input type="checkbox"/> NO <input type="checkbox"/>
Control gear compatible with the standard:	DIN EN 60915 (Measurement in AC and DC)	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	YES <input type="checkbox"/> NO <input type="checkbox"/>
Control gear compatible with the standard:	DIN EN 61000-3-2, PA1 7.3.1	see "Important note!"	YES <input type="checkbox"/> NO <input type="checkbox"/>
Control gear compatible with the standard:	DIN EN 61547	Equipment for general lighting purposes - EMC immunity requirements	YES <input type="checkbox"/> NO <input type="checkbox"/>
<i>Note: VGE 0108 is not a substitute for EOC, testing is not applicable</i>			
Features:	CEAG date:	Explanation:	Manufacturer information:
Important for fluorescent:	V-CG-92 => 4 mA or >12.7 mA => OK	Minimum current of the LED driver with LED module to (DC) operation with the emergency mode.	AC: (AT-S)
Voltage dependent:	V-CG-93 => 15 mA or >47 mA => OK	In the voltage range of 180 - 280V AC on AT-S or 180 - 280V DC on DC-280V-DC the input current must be higher than the specified current values.	DC: (PS-A, AT-S)
Input current of the control gear in LED:	V-CG-90 => 147 mA => OK	see "Important note!"	AC: (AT-S)
DC and AC operation:	DC-A => 16 mA or >47 mA => OK	see "Important note!"	DC: (PS-A, AT-S)
Important for fluorescent:	V-CG-92 => 4 mA or <7 mA => OK	Minimum current of the LED driver with LED module for (DC) operation with the emergency mode.	AC: (AT-S)
Voltage dependent:	V-CG-93 => 15 mA or <48 mA => OK	In the voltage range of 180 - 280V AC on AT-S or 180 - 280V DC on DC-280V-DC the input current must be lower than the specified current values.	DC: (PS-A, AT-S)
Input current of the control gear without or perfect LED module:	V-CG-90 => 147 mA => OK	see "Important note!"	AC: (AT-S)
DC and AC operation:	V-CG-92 => 4 mA V-CG-93 => 15 mA DC-A => 16 mA	see "Important note!"	DC: (PS-A, AT-S)
Important for the power consumption of addressable ballast:	V-CG-92 => 4 mA V-CG-93 => 15 mA DC-A => 16 mA	The max. inrush current of each monitoring module has to be considered!	AC: (AT-S)
Note: Important for the planning:	Max. permitted inrush current per circuit: AC circuit => 100 A SCU 1 x 3A (CS) => 140 A SCU 1 x 1A (CS) => 140 A SCU 2 x 3A (CS) => 280 A SCU 2 x 1A (CS) => 280 A SCU 0.5 x 5' => 280 A 50 A'	The declaration of the inrush current of the luminaires above is important, to calculate the max. possible luminaires on one circuit, to consider the max. contact load limitation of the circuit.	AC: (AT-S) DC: (PS-A, AT-S)
Luminaires, which are used for emergency lighting, must comply with DIN EN 60598-2-22 (particular requirements - Luminaires for emergency lighting)			
For AT-S systems and for battery systems (2B-A) / P-STAR with active preliminary time for AC about 300 seconds (EOL detection of TS lamp) for the function test, the current consumption must be considered, i.e. all control gears (2, PA1 7.3.1) - see DIN EN 60929-2			
Note: EOL (End of Life) detection (TS + Warranty): The AC preliminary time is valid for the complete system (e.g. 2B-A), not possible for individual circuits. The module of the V-CG-93 series monitor the current consumption on the primary side of the control gear for LED modules with the specified limits. Failure of individual LEDs (down-temperature) on the secondary side or not inevitably lead to a modification of current consumption on the primary side, and in such cases cannot be detected as a failure.			



www.eaton.de/ceag/anforderungsblatt

Laden Sie sich auf unserer Website die aktuellen Anforderungen an elektronische dimmbare DALI Betriebsgeräte für Leuchtstofflampen und LEDs herunter.

Requirements for dimmable DALI control gears for fluorescent lamps and LED			Version 5
Manufacturer:	Type / description:		Manufacturer information Complete: YES/NO
Control gear suitable for a DC voltage range:	CEAG date: 186V - 280V DC (for Lead-Battery)	Explanation: Possible voltage range of the battery in emergency mode. (not for AT-2 - Systems required)	YES <input type="checkbox"/> NO <input type="checkbox"/>
Control gear compatible with the switch-over time of the system?	Switch-over time: 180 ms - 400 ms	Typical switch-over time of CEAG systems between mains supply and emergency power supply	YES <input type="checkbox"/> NO <input type="checkbox"/>
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 (A) in max. 250 mA are allowed.	YES <input type="checkbox"/> NO <input type="checkbox"/>
Control gear compatible with CEAG STAR Technology:	Phase-cut telegram (PAT): max. 30 phases (half waves) with max. 60° phase-cut	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 <input type="checkbox"/> NO <input type="checkbox"/>
Only for fluorescent lamps:	DIN EN 60929	AC and/or DC-supplied electronic control gear for tubular fluorescent lamps - Performance requirements	YES <input type="checkbox"/> NO <input type="checkbox"/>
Control gear compatible with the standard:	DIN EN 61347-2-2 (incl. Attachment 2)	Particular requirements for AC and/or DC supplied electronic control gear for fluorescent lamps	YES <input type="checkbox"/> NO <input type="checkbox"/>
Only for LED:	DIN EN 62384	AC or DC supplied electronic control gear for LED modules - Performance requirements	YES <input type="checkbox"/> NO <input type="checkbox"/>
Control gear compatible with the standard:	DIN EN 61347-2-13	Particular requirements for AC or DC supplied electronic control gear for LED modules	YES <input type="checkbox"/> NO <input type="checkbox"/>
Control gear compatible with the standard:	DIN EN 60915 (Measurement in AC and DC)	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	YES <input type="checkbox"/> NO <input type="checkbox"/>
Control gear compatible with the standard:	DIN EN 61547	Equipment for general lighting purposes - EMC immunity requirements	YES <input type="checkbox"/> NO <input type="checkbox"/>
Control gear compatible with the standard:	DIN EN 62386-101 1-102*	Control gear must have the DALI Logo!	YES <input type="checkbox"/> NO <input type="checkbox"/>
<i>Note: VGE 0108 is not a substitute for EOC, testing is not applicable</i>			
Features:	CEAG Date:	Explanation:	Manufacturer information:
Important for DALI level 102:	According to IEC 62386 Part 102	Is tested a lamp failure, the V-CG-92.1 module send DALI command (101/102) to the DALI LED driver. These DALI commands are necessary to ensure the lamp failure detection, and must be supported by the control gear.	YES <input type="checkbox"/> NO <input type="checkbox"/>
Important for DALI level 101:	In case of locked DALI light level to DC operation EOP-Emergency Output Level, the V-CG-92.1 can not change the light level!	In DC emergency case the DALI Light Level is locked to prevent unintended changes of the luminaires flux.	Unlocked <input type="checkbox"/> Locked <input type="checkbox"/>
Important for lighting design:	If DALI Light level is locked, the value of the current DC Light level	Phase Cut Light Level is 1% (DALI value 185 for lightless, dimming curve)	%
Note: Important for the planning:	Max. permitted inrush current per circuit: AC circuit => 100 A SCU 2 x 3A (CS) => 140 A SCU 1 x 3A (CS) => 140 A SCU 2 x 1A (CS) => 280 A SCU 1 x 5A (CS) => 280 A SCU 0.5 x 5' => 280 A 50 A'	The declaration of the inrush current of the luminaires is important, to calculate the max. possible luminaires on one circuit, to consider the max. contact load limitation of the circuit.	AC: (AT-S) DC: (PS-A, AT-S)
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-92.1 for the DALI LED driver is 100% done via DALI commands according to IEC 62386-101 1-102			
Max. 1 DALI Driver to wire with 1 V-CG-92.1			
In case of installed ballasts, the effective lamp failure detection of the manufacturer must be considered! Some devices don't detect a failure if one lamp is defect.			
06 March 2021			



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