Technical requirements for electronic control gears for LED and fluorescent lumninaires (dimmable or non-dimmable) for operation on INOTEC central battery systems (CPS 220 / CPS FUSION) and emergency power supply systems (NEA)



## - General requirements -

Manufacturer:	Type / Description:		
Shenzhen YYC-Cziz lighting. Co., Ital	Luminaire Lto Flavelight, Cto Streetlight		
Springer ( (C as promise )	EVG:		
	LED: EY033, PE035, F6053, 7-403, 7-6203.		
Project / Place / Project ID:	Specified by:		
	Name:		
	Company:		
	Date:		

Features		Techn. data / INOTEC requirements	Explanation	Fullfilled (Yes / No)	
1	Voltage range AC	230V ± 10%	Voltage range in normal mains operation	YES	
2	Voltage range DC	186V - 260V	Possible voltage range in emergency operation	NO	
3	Control gear suitable for "Joker-Voltage" ?	B2-rectification of the AC voltage (without smoothing)	Pulsating DC voltage	YES	
4	Control gear compatible with change- over time of the system?	Change-over time: 150 - 1000ms	Typical change-over time of INOTEC systems between mains- and battery operation	YES	
5	Starting behavior of the control gear in AC and DC operation	Stable current consumption within 1.6s	Necessary for individual lamp monitoring (SV). The nominal current of the control gear must be reached within this time if the lamp is intact or defective.	No	
6	Control gear complies with the standard: (only for fluorescent lamps)	DIN EN 60929	AC and/or DC-supplied electronic control gear for tubular fluorescent lamps - Performance requirements	No	
7	Control gear complies with the standard: (only for fluorescent lamps)	DIN EN 61347-2-3 (incl. Attachment J)	Particular requirements for AC and/or DC supplied electronic control gear for fluorescent lamps	No	
8	Control gear complies with the standard: (only for LED)	DIN EN 62384	DC or AC supplied electronic control gear for LED modules - Performance requirements	No	
9	Control gear complies with the standard: (only for LED)	DIN EN 61347-2-13	Lamp control gear - Part 2-13: Particular requirements for DC or AC supplied electronic control gear for LED modules	No	
10	Control gear complies with the standard:	DIN EN 55015 (Measurement on AC and DC)	Limits and methods of measurement of radio interference	YES	
11	Control gear complies with the standard:	DIN EN 61000-3-2	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	YZS KES	
12	Control gear complies with the standard:	DIN EN 61547	Equipment for general lighting purposes — EMC immunity requirements	KES	
13	Control gear complies with the DALI- standards:	DIN EN 62386-101 /-102 / -207	The control and status information for monitoring the luminaire is provided via DALI commands. The DALI commands must be 100% compatible.	No	

Note: VDE 0108 is not a standard for ECG, marking is not applicable  $\,$ 

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## - Technical specifications -

Manufacturer: Shenzhen YY(-LEW) 1.8htig w., HA	Type / Description: Luminaire LEN Hood (194+, Cto streetlight			
	EVG:			
	LED: EXOLS, FEOSS, EEOS, FEOS, TEXOS.			
Project / Place / Project ID:	Specified by:			
	Name:			
	Company:			
	Date:			

Features		Explanation		Manufacturer spec.		
14	Nominal current of the control gear with connected illuminant in AC- operation (230V)	Selection guide for the calculation of the max. number of luminairs per circuit	1	,	m/	
		Selection guide for the calculation of the necessary battery capacity and	1		mA (186V	
15	Nominal current of the control gear with connected illuminant in DC- operation (186V / 216V / 240V)	selection guide for the calculation of the necessary bactery capacity and selection guide for determination of the monitoring module to recognise a normal working lamp correctly.	1		mA (216V	
			1		mA (240V	
3	Nominal current of the control gear with connected illuminant at set dimming level in DC-operation (186V / 216V / 240V) (for dimmable control gear)	Selection guide for determination of the monitoring module to recognise a normal working lamp correctly.	1		mA (186V	
182.30			1		mA (216V	
			1		mA (240V	
	Current consumption of the control gear without or with defective	Selection guide for determination of the monitoring module to recognise a lamp failure correctly.	1		mA (186V	
17	illuminant in DC- operation (186V and 240V)		1		mA (240V	
18	Current consumption of the control gear without or with defective illuminant in AC- operation (230V)	Selection guide for determination of the monitoring module to recognise a lamp failure correctly.		1	m/	
19	Dimming level in emergency mode (DC or "Joker") (for dimmable control gear, if activated)	Important for the safety lighting design		/	9	
20	DC detection <b>completely</b> deactivalable ? (for dimmable control gear)	To ensure correct operation, the control gear should not react to a change of the input voltage (DC or "Joker"). In this case, the INOTEC DALI module (DALI-SV module or FMD 230/DALI) controls the control gear.	/			
21	Max. inrush current of the control gear with connected illuminant in AC- operation (230V)	Important for determining the maximum permissible number of luminaires per circuit in order to take account of the maximum contact load capacity of the circuit changeover circuit or monitoring module.		/	Α/μ:	
22	Use of DALI commands according to IEC 62386 part 102:  - DPAC (level)  - RECALL MAX LEVEL 0x05  - RECALL MIN LEVEL 0x06  - QUERY STATUS 0x90  - QUERY ACTUAL LEVEL 0xA0	Control and status information for monitoring the luminaires:  - Direct setting of a dimming value  - Set maximum level  - Set minimum level  - Requests status telegram  - Requests current dimming value	l	Ví	0	
	- QUERY LAMP POWER ON 0x93	- Requests status wheter lamp is switched on (after 2 / 2.5 / 3 seconds and cyclically every 3 seconds)				

Luminaires, which should work as emergency lighting, have to be in accordance with DIN EN 60598-2-22. (Particular requirements - Luminaires for emergency lighting).

Notes:

For the correctness:

Shenzhen, China

Place, Date

Stand: Apr. 2021

Jours 2013.11.14

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