

CERTIFICATE

Issued to:
Applicant:
T C I Telecomunicazioni S.r.l.
Via Parma 14
21047 Saronno (VA) - ITALY

Manufacturer/Licensee:
T C I Telecomunicazioni S.r.l.
Via Parma 14
21047 Saronno (VA) - ITALY

Product(s) : Electronic controlgear for LED modules
Trade name(s) : TCI or TN101
Type(s)/model(s) : DC JOLLY SLIM (series); MP 32 SLIM (series)

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:
a type test according to the standard EN 61347-2-13:2014; EN 61347-1:2008+A1:2011+A2:2013;
EN 62384:2006+A1:2009

- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2033015

DEKRA hereby grants the right to use the ENEC KEMA-KEUR certification mark.

The ENEC KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the ENEC KEMA-KEUR certification agreement and under the conditions of the ENEC KEMA-KEUR certification agreement.

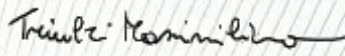
This certificate is issued on: October 5, 2016 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 2102507.01

DEKRA Certification B.V.



drs. G.J. Zoetbrood
Managing Director



Massimiliano Triulzi
Certification Manager

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All testing, inspection, auditing and certification activities of the former KEMA Quality are an integral part of the DEKRA Certification Group.

ACCREDITED BY
THE DUTCH COUNCIL
FOR ACCREDITATION



General product information:													
The devices are electronic controlgears for LED modules. The devices have a stabilized output current or voltage depending on the selection of the DIP switch (S1 if present). The DIP switch options are detailed both in the technical specification and in the labels. The stabilized output can be reduced by NTC control signal (if present) in case of overheating on the LED module. All models have SELV output.													
Type/s	AC Input (50/60 Hz) [1]	Power Factor	DC Input (0 Hz) [2]	Output Power (W) [3]	Secondary Parameter [3]	Vomax U-OUT	t _a (°C)	t _c (°C) [4]	Thermal protect. (°C) [5]	Classification			
DC JOLLY SLIM or K2831	110-240 V 0,18 A	0,96	176-280 V 0,21 A	13-32 15-17	0,25 -0,7 A 24 V	59 V -	-25...50	80	110	Built-in			
DC JOLLY SLIM MIDNIGHT or K2832													
DC JOLLY SLIM BILEVEL or K2833													
DC JOLLY SLIM BILEVEL N or K2834				-	-	-	-	-	-	-	-	Integral	
DC JOLLY SLIM PLV or K2835													
DC JOLLY SLIM OF or K2836													
MP 32 SLIM or K2205				-	-	-	17-32 15-20	0,35 -0,75 A 24 V	53 V -	-25...50	85	110	Built-in
MP 32 SLIM OF or K2837													
MP 32 SLIM HV or K2207							14-32 15-17	0,25 -0,6 A 24 V	65 V -	-25...50	80	110	-
MP 32 SLIM HV OF or K2838													

Notes: [1] – Rated value for AC range; [2] – Operative d.c. range in which the products can work; they can be used for centralized emergency installations (EN 50171 and EN 50172) in the rated 195-255 V range. [3] – Different values according to DIP switch selection (see label). [4] – the t_c point for open frame models is measured on the metal cap of C14. [5] – The products have an overheating protection (C.5.a) and comply with temperature limit of clause 4.16.2 of EN 60598-1:04 ("F" triangle marking), EN 60598-1:2014; VDE 0710 T14 ("MM" triangle marking).

Common parameters	
Connection to supply (PRI)	screw terminal block (0,5...2,5 mm ²)
Connection to control (if present)	screw terminal block (0,5...2,5 mm ²) for PUSH L, OPERATION, RED ON, RED OFF; screw terminal block (0,2...1,5 mm ²) for 1...10V, LEVEL, PUSH LV / 1...10V
Connection to SYNC (if present)	Connector
Connection to load (SEC)	screw terminal block (0,2...1,5 mm ²)

Additional information				
All models with the enclosure fulfil the requirements for: AC/DC P/S for LED; multiple value load control gear; stabilized output voltage or current; short-circuit proof type; impulse withstand category II; Pollution degree 2 (Normal Pollution); Material group IIIa.				
All models with enclosure have the following features: the material of enclosure was tested for Glow-wire at temperature of 850/960 °C with favourable result.				
INSULATION	PRI	PUSH L, OPERATION, RED ON, RED OFF (if present)	1...10V, SYNC, LEVEL, PUSH LV/1...10V (if present)	SEC
PRI	-	double		double
PUSH L, OPERATION, RED ON, RED OFF (if present)	basic	-	double	double
1...10V, SYNC, LEVEL, PUSH LV/1...10V (if present)	double	double	-	functional
SEC	double	double	functional	-
In the final application the connections of external wiring shall be according to IEC 60598-1 or national deviations of the country where installed. Creepage distances and clearances for built-in models shall comply with the requirements of IEC/EN 60598-1 when the device is installed in the final application:				
MODELS:	INSULATION:		Between active parts and the bottom surface of enclosure	Between active parts and external side of enclosure
DC JOLLY SLIM, DC JOLLY SLIM MIDNIGHT, DC JOLLY SLIM BILEVEL, DC JOLLY SLIM BILEVEL N, DC JOLLY SLIM PLV, MP 32 SLIM, MP 32 SLIM HV			double	-
DC JOLLY SLIM OF, MP 32 SLIM OF, MP 32 SLIM HV OF			-	-

TESTS**Test requirements**

EN 61347-2-13:2014; EN 61347-1:2008+A1:2011+A2:2013; EN 62384:2006+A1:2009

Test result

The test results are laid down in DEKRA test files No.2102507.50 and No.2102507.60

Remarks

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Conclusions

The examination proved that all test requirements were met.

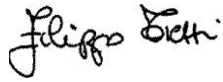
Tested by :

Massimo Banchelli

Handwritten signature of Massimo Banchelli in blue ink.

Checked by :

Filippo Tiezzi

Handwritten signature of Filippo Tiezzi in blue ink.**Factory-Location**

TCI Telecomunicazioni Italia S.r.l.

Via Parma 14

I-21047 Saronno (VA)