

CERTIFICATE

Issued to:
Applicant:
TCI Telecomunicazioni Italia Srl
Via Parma 14
21047 Saronno (VA), Italy

Licensee:
TCI Telecomunicazioni Italia Srl
Via Parma 14
21047 Saronno (VA), Italy

Product : Electronic controlgear for LED modules
Trade name(s) : TCI, TCI (with little dragon), TCI LED, TCI LED (with little dragon),
TCI LIGHT (with little dragon and ball in square), TCI LIGHT Saronno Italy or
TN101
Type(s)/model(s) : T-LED NFC (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(s) EN 61347-2-13:2014, EN 61347-2-13:2014/A1:2017, EN 61347-1:2015 and EN IEC 62384:2020
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 2033015

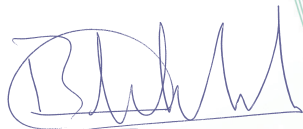
DEKRA hereby grants the right to use the ENEC certification mark.

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

This certificate is issued on 29 August 2022 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 81-125057

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



R Zhou
Certification Manager

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COUNCIL



SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	: Electronic controlgear for LED modules
Trade name(s)	: TCI, TCI (with little dragon), TCI LED, TCI LED (with little dragon), TCI LIGHT (with little dragon and ball in square), TCI LIGHT Saronno Italy or TN101
Type(s)/model(s)	: T-LED NFC (series)
Primary voltage	: 220-240 V for a.c., 196-250 V for d.c.
Rated frequency	: 50-60 Hz or 50/60 Hz, 0 Hz
Primary current	: From 0,2 A to 0,5 A for a.c., 0,23 A to 0,62 A for d.c.
Secondary power	: From 35 W to 100 W
Secondary current	: From 0,08 A to 0,7 A
Type of load	: LED modules, power LED
Classification	: Independent, Built-in

TESTS**Test requirements**

EN 61347-2-13:2014
EN 61347-2-13:2014/A1:2017
EN 61347-1:2015
EN IEC 62384:2020

Test result

The test results are laid down in DEKRA test file 350033600.

Additional information

DEKRA test report No 3500336.522 and 3500336.523 are laid down in DEKRA test file 350033600; they contain test results.

DEKRA test report No. 3500336.522 contains critical component list.

For specific Model/Type electrical rating refer to following pages.

Conclusion

The examination proved that all requirements were met.

Factory location

TCI Telecomunicazioni Italia Srl
Via Parma 14
21047 Saronno (VA), Italy

General product information: The devices are intended to supply high power Light Emitting Diodes or LED modules. The output current is stabilized. The Kxxxx can replace the type according to the following table:

Type/s	a.c./*d.c. supply (V) [1]	Input current (A)	Power Factor	Output Power Po (W)	Output current (A)	U _{OUT} (V)	ta (°C)	tc (°C)	Use [3]
T-LED 35/80-400 DALI NFC (K2I21)	220-240 *176-276	0,2 *0,23	0,9 (Po>30 W)	35	0,08-0,4	300	-25...60	80	BI, PE, 110
T-LED 60/80-400 DALI NFC (K2H66)	220-240 *176-276	0,3 *0,37	0,95 (Po≥36 W)	60	0,08-0,4	300	-25...60	85	BI, PE, 110
T-LED 60/80-400 300V DALI NFC (K2I22)	220-240 *176-276	0,3 *0,37	0,95 (Po>36 W)	60	0,08-0,4	330	-25...60	85	BI, PE, 110
T-LED 100/120-700 DALI NFC (K2H67)	220-240 *176-276	0,5 *0,62	0,95 (Po≥40 W)	100	0,12-0,7	300	-25...60	85	BI, PE, 110
T-LED 100/120-500 DALI NFC REGENT (K2I24)	220-240 *176-276	0,5 *0,62	0,95 (Po>48 W)	100	0,12-0,5	300	-25...60	95 [2]	BI, PE, 110
T-LED 100/120-700 300V DALI NFC (K2I23)	220-240 *176-276	0,5 *0,62	0,95 (Po>40 W)	100	0,12-0,7	330	-25...60	85	BI, PE, 110

Notes: [1] – a.c. at 50-60 Hz or 50/60 Hz; d.c. supply, see additional information for rated/operative range. [2] tc_{L6}: the position of tc is over L6 (technical specification). [3] – BI=built-in; PE=protective earth; 110=overheating protection (C.5.a type).

Connection		
Supply	PRI (L, N)	screwless terminal block 0,5...1,5 mm ²
Control	DA (DA 1, DA 2)	screwless terminal block 0,5...1,5 mm ²
Load	SEC (+, -)	screwless terminal block 0,5...1,5 mm ²
Additional information		
Use	Built-in for ordinary luminaire, up to 2000 m above sea level; the independent use is possible only with the additional cable retainer (accessory). The output current setting is settable by NFC and it can be dimmable by DALI protocol.	
Features	For LED; stabilized output current; multiple value load; short-circuit proof type; impulse withstand category II; Pollution degree 2; Material group IIIa; thermal protection (C.5.a); 20 step CLO function (the final output is the 100% of declared current). Total circuit power: 38W for T-LED 35/80-400 DALI NFC; 64 W for T-LED 60 models; 106 W for T-LED 100 models.	
DC operation	The products were tested in the rated range 196-250 V (operative range 176-276 V) according to IEC/EN 61347-2-13; d.c. operation for standards different from IEC/EN 61347 can be allowed with external fuse installed in front of the controlgear (e.g. Littelfuse, 477 series, 5x20 mm time-lag rated for 500 Vac / 400 Vdc, VDE certificate No. 40025413). The light output level in DC operation is programmable in the range 1-100% (factory default =15% EOF _I =0,13).	
The creepage distances, clearances and connections of control gears in the final application shall be according to IEC 60598-1 or national deviations of the country where installed.		
INSULATION (B= basic, S= supplementary, R= double or reinforced)		
PRI ↔ PE (E), PRI ↔ DA	B	
PRI ↔ SEC	-	
active parts ↔ top/front sleeving (only for T-LED 100/120-500 DALI NFC REGENT)	B	
active parts ↔ lateral/bottom sleeving (only for T-LED 100/120-500 DALI NFC REGENT)	R	
active parts ↔ enclosure (for other models)	B	
active parts ↔ external enclosure of cord grip (for other models)	R	

Assessment to EN 60598-2-22:2014/AMD1:2020 used in conjunction with EN 60598-1:2014/AMD1:2017 and EN 60598-1:2015/A1:2018 for the use of the additional cable retainer (accessory).
Assessment to EN 62493:2015 has been performed.
Assessment to VDE 0710 Part 14/04.82 has been performed.
Assessments to EN IEC 62442-3:2022 have been performed.