

CERTIFICATE

Issued to:
Applicant:
TCI Telecomunicazioni Italia S.r.l.
Via Parma, 14
21047 Saronno (Va), Italy

Licensee:
TCI Telecomunicazioni Italia S.r.l.
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) : PROFESSIONALE IN (series)

The product and any acceptable variation thereto as 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 EN 61347-2-13:2014, EN 61347-2-13:2014/A1:2017, EN 61347-1:2015, EN 61347-1:2015/A1:2021 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

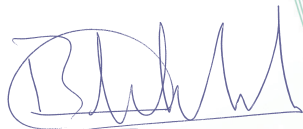
DEKRA hereby grants the right to use the ENEC certification mark.

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 2 April 2024 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 81-123044 REV.1

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



K Xu
Certification Manager

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DUTCH ACCREDITATION
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)	: PROFESSIONALE IN (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 0,11 to 0,3 A for a.c., from 0,13 to 0,33 A for d.c.
Secondary Current	: From 0,125 to 1,4 A
Secondary Power	: From 6,8 to 52 W
Working voltage U-OUT	: 59 V
Type of load	: LED modules, power LED
Classification	: Independent

TESTS**Test requirements**

EN 61347-2-13:2014
EN 61347-2-13:2014/A1:2017
EN 61347-1:2015
EN 61347-1:2015/A1:2021
EN IEC 62384:2020

Test result

The test results are laid down in DEKRA test file 350908000.

Additional information

DEKRA test report No. 3500336.462 and 3500336.463 are laid down in DEKRA test file 350908000; they contain test results.

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

This certificate replaces certificate No. 81-123044 which we hereby declare invalid.

The list of components is laid down in test report 3500336.462.

Conclusion

The examination proved that all requirements were met.

Factory location

TCI Telecomunicazioni Italia S.r.l.
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21047 Saronno (Va), Italy

General product information: The devices are electronic SELV control gears, intended to supply high power Light Emitting Diodes or LED modules. The devices have a stabilized output current. An alternative /xxx at the end of commercial code can be present if particular setting value of the output is requested from the client. The output (SEC) is dimmable by DALI or touch dimming only for DALI models. Primary voltage: 220-240 V (operating range 198-264 V), 50/60 Hz or 50-60 Hz; 196-250 Vdc, 0 Hz (operating range 176-275 Vdc). For PROFESSIONALE IN 52 e PROFESSIONALE IN 42 models for DC operation Earth connection is mandatory. The stabilized output current can be set by DIP switch. The output power can be up to $P_{out\ max}$ with proportionate values of I_{in} . The Kxxxx code can replace the type reference according to the following tables:

Type/s	ac/*dc Input current (A)	Power Factor	Output Power (W)	Output current (A)	U_{OUT} (V)	t_a (°C)	t_c (°C)	Thermal protect ion (°C) [1]	Use [2]
PROFESSIONALE IN DALI 52 (K2G17)	0,3 *0,33	0,95	27,3-52	0,65-1,4	59	-20...45	90	110	IND, II, IP20
PROFESSIONALE IN 52 (K2G18)									
PROFESSIONALE IN 42 (K2G19)	0,22 *0,27	0,95 ($P_{out} \geq 28,6W$)	13,2-42	0,3-1,05	59	-20...45	80	110	IND, II, IP20
PROFESSIONALE IN DALI 40 cod. 127481 (K2G20)	0,2 *0,26	0,95	16,2-40	0,3-1,05	59	-20...50	85	110	IND, II, IP20
PROFESSIONALE IN DALI 40 cod. 127481ASN									
PROFESSIONALE IN DALI 20 (K2G21)	0,11 *0,13	0,95 ($P_{out} \geq 12,2W$)	6,8-20	0,125-0,5	59	-20...50	75	110	IND, II, IP20, MM, DNC

Notes: [1] – overheating protection (C.5.a type); [2] – Classification: IND= independent; II= class II; IP20= case IP20; MM= suitable for direct mounting on normally flammable surfaces (EN 60598-1); DNC= DO NOT COVER.

Connections

PRI Input supply	L, N	Screw-less terminal block 0,75-2,5 mm ²
Looping through earth E	E	Screw-less terminal block 0,75-2,5 mm ²
DALI control (if present)	DA/N, DA/Ls	Screw-less terminal block 0,5-1,5 mm ²
SEC Output load	LED+, LED-	Screw-less terminal block 0,5-1,5 mm ²

Additional information

Use	Independent for ordinary luminaire; up to 2000 m above sea level. E terminal is used for looping of external earth.
Features	For LED; stabilized output current; multiple value load; short-circuit proof type; impulse withstand category II and III; Pollution degree 2 (Normal Pollution); Material group IIIa; overheating protection (C.5.a) at 110 °C. The material of enclosure was tested with favourable result for Glow-wire at temperature 750-960 °C. Total circuit power: 58 W for PROFESSIONALE IN DALI 52 and PROFESSIONALE IN 52, 47 W for PROFESSIONALE IN 42, 45 W for PROFESSIONALE IN DALI 40, 23 W for PROFESSIONALE IN DALI 20.
DC operation	The products were tested in the nominal range 196-250 V (operative range 176-276 V) according to EN 61347-2-13 (EL symbol) for the specific use in centralized emergency installations; assessment to EN IEC 60598-2-22 has been performed for independent models (for built-in models only Clauses 22.7.2 and 22.7.3 have been assessed).

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 in the final application:

INSULATION	All models
B= basic, S= supplementary, R= double or reinforced	
PRI ↔ SEC	R
PRI ↔ looping through earth (E)	R
PRI ↔ DA/N, DA/Ls (if present)	B
DA/N, DA/Ls ↔ looping through earth (E)	R
DA/N, DA/Ls ↔ SEC	R

SEC ↔ looping through earth (E)	R
Assessment to EN 60598-2-22 used in conjunction with EN IEC 60598-1) has been performed.	
Assessment to EN 62493:2015 has been performed.	
Assessment to EN IEC 62442-3 has been performed.	
All models are suitable for direct mounting on normally flammable surfaces only for values up to the following tc value:	
PROFESSIONALE IN DALI 52	tc ≤ 80
PROFESSIONALE IN 52, PROFESSIONALE IN 42	tc ≤ 70
PROFESSIONALE IN DALI 40 cod. 127481, PROFESSIONALE IN DALI 40 cod. 127481ASN	tc ≤ 75
PROFESSIONALE IN DALI 20	declared tc