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 LED, TCI LED (with little dragon), TCI LIGHT, TCI LIGHT (with little dragon and ball in square), TCI LIGHT Saronno Italy or TN101
Type(s)/model(s)	:	DC LS** (*means any alphanumeric characters)

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

DEKRA hereby declares that the above-mentioned product has been certified based on:
- 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 31 March 2025 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 2102420.01 REV.1

DEKRA Certification B.V.

B.T.M. Holtus
Managing Director

Matilde Tonsi
Certification Manager

ACCREDITED BY THE
DUTCH ACCREDITATION
COUNCIL

PRODUCTS
RvA C 001

SPECIFICATION OF THE CERTIFIED PRODUCT

Product data

Product	:	Electronic controlgear for LED modules
Trade name(s)	:	TCI, TCI LED, TCI LED (with little dragon), TCI LIGHT, TCI LIGHT (with little dragon and ball in square), TCI LIGHT Saronno Italy or TN101
Type(s)/model(s)	:	DC LS** (*means any alphanumeric characters)
Primary voltage	:	220-240 V for a.c., 189-250 for d.c.
Rated frequency	:	50-60 Hz, 0 Hz
Primary current	:	From 0,08 to 0,11 A for a.c., from 0,05 to 0,07 A for d.c.
Secondary power	:	From 7 W to 10 W
Secondary voltage	:	From 8 V to 28 V
Type of load	:	LED modules
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 documented in DEKRA test file 350908000.

Additional information

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

DEKRA test report No. 3509080.510 and 3509080.511 are laid down in DEKRA test file 350908000; they contain test results.

This certificate replaces certificate No. 2102420.01 which we hereby declare invalid.

The list of components is laid down in test report 3509080.510.

Conclusion

The examination has confirmed that all requirements were met.

Factory location

TCI Telecomunicazioni Italia S.r.l.
Via Parma, 14
21047 Saronno (VA), Italy

General product information:

Controlgear for LED modules with stabilized output voltage. All models have SELV output. Primary voltage: 220-240 V 50-60 Hz, 189-250 V *0 Hz or 220-240 V *0 Hz.

Type/s	PRI supply (V) [1]	PRI current (A) [1]	Power Factor λ	SEC Power (W)	SEC voltage (V)	U_{OUT} (V)	ta (°C)	tc (°C)	Use [2]
DC 7W 8V LS (K2001)	220-240 170-280*	0,08 0,05*	0,52 C	7	8	9	-25...50	75	IND, II, 110, MM
DC 10W 12V LS (K2002)	220-240 170-280*	0,11 0,07*	0,55 C	10	12	13	-25...50	80	IND, II, 100, MM
DC 10W 24V LS (K2003)	220-240 170-280*	0,11 0,07*	0,55 C	10	24	25			
DC 10W 28V LS (K2352)	220-240 170-280*	0,095 0,07*	0,58 C	10	28	34		65	

Notes: Kxxxx code can replace the type reference; [1] – maximum value with a.c. or *d.c. supply. [2] – IND= independent IP20; II= class II; 100/110= overheating protection (C.5.a type); MM= suitable for direct mounting on normally flammable surfaces (EN 60598-1:2015).

Connections		
Input supply	PRI	tails H03VVH2-F 2x0,75 mm^2
Output load	SEC + -	tails H05V2-K 0,5 mm^2

Additional information	
Use	Independent or built-in controlgear for ordinary luminaire, up to 2000 m above sea level.
Features	For LED; stabilized output voltage; multiple value load; short-circuit proof type; impulse withstand category ll; Pollution degree 2; Material group llla; thermal protection protection (C.5.a). The material of enclosure was tested with favourable result for Glow-wire at temperature 750-960 °C. Total circuit power: 9 W for DC 7W 8V LS; 12 W for all other models.
DC operation	All models suitable for d.c. operation (EL symbol) have been tested in the rated supply range 189-250 V for the specific use in centralized emergency installations (extended range 170-280 V); assessment to EN IEC 60598-2-22:2022 used in conjunction with EN IEC 60598-1:2021 has been performed for independent models.

The creepage distances, clearances and connections of control gears in the final application shall be according to IEC/EN 60598-1 or national deviations of the country where installed:

INSULATION

(B= basic, S= supplementary, R= double or reinforced)

PRI ↔ SEC	R
active parts ↔ touchable parts of enclosure	R
active parts ↔ bottom surface of enclosure	R

Assessment to EN 62493:2015 and EN 62493:2015/A1:2022 has been performed.

Assessment to EN IEC 62442-3:2022 has been performed.