

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) : STARLIGHT ** (* means any alphanumeric characters)

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 61347-1:2015, EN 61347-1:2015/A1:2021, EN 61347-2-13:2014, EN 61347-2-13:2014/A1:2017 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

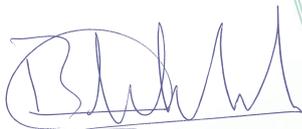
DEKRA hereby grants the right to use the ENEC certification mark.

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 15 January 2024 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 81-135073

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



Miranda Zhou
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)	: STARLIGHT ** (* means any alphanumeric characters)
Primary voltage	: 220-240 V
Nature of supply	: alternate current, direct current
Rated frequency	: 50/60 Hz, 0 Hz
Primary current	: 0,17 A for a.c. supply, from 0,13 to 0,18 A for d.c. supply
Type of load	: LED modules, power LED
Secondary current	: From 0,2 to 0,9 A (CC)
Secondary voltage	: 24 V (CV)
Secondary power	: 30 W (for CC), 3 W (for CV)
Classification	: Built in

TESTS**Test requirements**

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

Test result

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

Additional information

DEKRA test report No. 3509080.360 and 3509080.361 are laid down in DEKRA test file 350908000; they contain test results.

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

The list of components is laid down in test report 3509080.360.

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 intended to supply high power Light Emitting Diodes or LED modules. The devices have a constant output current for LED (depending on the NFC setting) and a constant output voltage (24 V) for auxiliary components. The stabilized output of STARLIGHT 30 200-900 SUPERIOR is dimmable by DALI protocol (D4i). The output power can be up to Pout max with proportionate values of lin. The STARLIGHT 30 200-900 EASY is not dimmable. All models have SELV output.									
Types	Primary voltage (V) [1]	Max. primary current (A)	Power Factor	Output Power (W) [2]	Output Parameter [2]	Uout (V)	t _a (°C)	t _c (°C)	Use [3]
STARLIGHT 30 200-900 SUPERIOR (K2I93), STARLIGHT 30 200-900 EASY (K2I94)	220-240 *186-250	0,17 0,13-0,18	0,95 (Pout≥ 12 W)	30 3	0,2-0,9 A 24 V	59 27	-40...60	90	DI, 110
Notes: The Kxxxx code can replace the type reference. [1] – Rated value for a.c. supply (50/60 Hz) and *d.c. supply used for centralized emergency installations (0 Hz). [2] – the max. output power for LED modules decreases from 30 to 27 W when 24 V 3 W is used. [3] – DI=built-in model with double insulation; 110= the products have an overheating protection (C.5.a) and comply with temperature limit of IEC/EN 60598-1.									

Connections	SUPERIOR model	EASY model	
Input supply	PRI, L, N		screwless terminal block 0,2-1,5 mm ²
DALI terminal	D4i, +/-	-	screwless terminal block 0,2-1,5 mm ²
Auxiliary 24 V output	24V +	-	screwless terminal block 0,2-1,5 mm ²
Output LED load	SEC +/-		screwless terminal block 0,2-1,5 mm ²

Additional information	
Use	Built-in for street lighting, up to 2000 m above sea level.
Features	All models have the following features: for LED; stabilized output current (CC) for LED module with multiple value load; stabilized output voltage (CC) for auxiliary device; short-circuit proof type; impulse withstand category II; Pollution degree 2; Material group IIIa; AOC (Adjustable Output Current), CLO (CONSTANT LUMEN OUTPUT 20 step), MIDNIGHT. D4i drivers have an integrated DALI bus power supply and can provide power to connected DALI devices on the bus. In luminaires, this greatly simplifies the incorporation of DALI sensors or other control devices that are solely powered from the DALI bus.
DC operation	All models are suitable for d.c. operation (EL symbol) have been tested in the rated supply range 186-250 V for the specific use in centralized emergency installations (extended range 167-275 V); assessment to Clauses 22.7.2 and 22.7.3 of EN IEC 60598-2-22:2022 used in conjunction with EN IEC 60598-1:2021 has been performed. Emergency level can be setted (default output current 15%).
The creepage distances, clearances and connections of control gears shall be according to EN 60598-1 or national deviations of the country where installed in the final application. INSULATION (B= basic, S= supplementary, R= double or reinforced):	
EQUI ↔ D4i, 24V	B
PRI ↔ EQUI; PRI ↔ SEC, NTC; PRI ↔ D4i, 24V	R
D4i, 24V ↔ SEC, NTC	R
Active parts ↔ housing	R
Assessment to EN 62493:2015, EN 62493:2022 has been performed. Assessment to EN IEC 62442-3:2022 has been performed.	