

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 control gear 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) : PRO FLAT ** (* 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 421
- a DEKRA certification agreement with the number 2033015

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

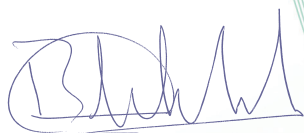
The ENEC certification mark may be applied to the product as specified in this certificate for the duration and under the conditions of the ENEC certification agreement.

This licence has been issued under the presumption and conditional on the fact that the licensee holds all necessary legal rights with regard to the product presented for testing and certification.

This certificate is issued on 8 October 2026 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 81-183531

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



Susan Lehner
Certification Manager

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DUTCH ACCREDITATION
COUNCIL



SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	: Electronic control gear 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)	: PRO FLAT ** (* means any alphanumeric characters)
Primary voltage	: 220-240 V for AC, 196-250 V for DC
Nature of supply	: alternate current, direct current
Rated frequency	: 50-60 Hz or 50/60 Hz
Primary current	: From 0,1 to 0,2 A for AC, 0,12 to 0,23 A for DC
Secondary current	: From 0,1 to 1,05 A
Secondary power	: From 0,3 to 40 W
Classification	: Independent, Built-in
Type of load	: LED modules, power LED

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 351061900.

Additional information

Above statement reflects the information shown in the Summary of Testing, document reference No. 3510619.160EU-1, on which this Certificate is based.

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

The list of components is laid down in test report 3510619.160.

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: The devices are intended to supply high power Light Emitting Diodes or LED modules by the following primary voltage: 220-240 V 50/60 Hz or 50-60 Hz; 196-250 Vdc 0 Hz. The output current is stabilized, SELV (depending on the DIP switch selection or software setting for NFC models or via DALI port with DALI programmer). The PRO FLAT HE NFC models are not dimmable.

Type/s	supply voltage (V)	supply current (A)	Power factor	Prated (W)	Output current (A)	U _{OUT} (Vdc)	ta (°C)	tc (°C) [1]	Use [2]
PRO FLAT DALI cod. 127576AR (K2J96)	220-240 50-60 Hz 196-250*	0,15 0,15*	0,79 C-0,99 (0,95@Pout≥7 W)	2,5-26	0,25-0,7 (step 25 mA)	59	-25..40	80	II, 110, DNC
PRO FLAT 38 DALI NFC LG cod. 142045 AK (K2J97)	220-240 50-60 Hz 196-250*	0,2 0,22*	0,23 C-0,99 (0,95@Pout≥13 W)	0,3-38	0,15-1,05 (step 50 mA)	59	-25..40	85	II, 110
PRO FLAT 38 CASAMBI NFC (K2J94)	220-240 50-60 Hz	0,2	0,25 C-0,99 (0,95@Pout≥13 W)	0,75-38	0,15-1,05	59	-25..40	80	II, 110
PRO FLAT 38 CASAMBI NFC BI (K2J95)	196-250*	0,22*					-25..45	85	DI, 110
PRO FLAT 38 CASAMBI NFC OF							-	80	-
PRO FLAT 20 CASAMBI NFC (K2J92)	220-240 50-60 Hz 196-250*	0,11 0,13*	0,65 C-0,99 (0,95@Pout≥5 W)	0,75-20	0,15-0,5	59	-25..45	70	II, 110, DNC
PRO FLAT 20 CASAMBI NFC BI (K2J93)							-25..50	85	DI, 110
PRO FLAT 20 CASAMBI NFC OF							-	80	-
PRO FLAT 20 HE NFC (K2J89)	220-240 50/60 Hz 196-250*	0,1 0,12*	0,35 C-0,99 (0,9 C@Pout≥6 W)	0,4-20	0,1-0,5	59	-20... 60	80	DI, 110, II, DNC
PRO FLAT 40 HE NFC (K2J91)	220-240 50/60 Hz 196*-250*	0,2 0,23*	0,25 C-0,99 (0,9 C@Pout≥13 W)	0,75-40	0,15-1,05	59	-20... 50	80	DI, 110, II, DNC
PRO FLAT 22 D4i NFC BI (K2J90)	220-240 50/60 Hz 196-250*	0,12 0,13*	0,3 C-0,986 (0,95@Pout≥10 W)	0,65-22	0,1-0,7	59	-25..50	75	DI, 110

Notes: Kxxxx code can be used as type reference; *Supply at 0 Hz; [1] – For OF models tc is measured on the top of C15. [2] – Use: 110= the products have an overheating protection (C5.a automatic resetting type); II=Independent class II (with auxiliary cable retainer for HE models); DI= Built-in with double insulation; OF= built-in without enclosure; DNC= Do not cover (with auxiliary cable retainer for HE models).

Connections		DALI and CASAMBI models	D4i and HE models
Input supply	PRI, N/L	screwless terminals 0,5...1,5 mm ² (0,75...1,5 mm ² for independent models)	screwless terminals 0,2...1,5 mm ² (0,75...1,5 mm ² for independent use)

DALI control	DA, DA	screwless terminals 0,5...1,5 mm ² (0,75...1,5 mm ² for independent models)	-
PUSH SWITCH control	DA, DA, P1, P2	screwless terminals 0,5...1,5 mm ² (0,75...1,5 mm ² for independent models)	-
D4i	D4i + -	-	screwless terminals 0,2-1,5 mm ²
Output LED load	SEC +/-	screwless terminals 0,5-1,5 mm ²	screwless terminals 0,2-1,5 mm ²

Additional information

Use	Independent or built-in for 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; short-circuit proof type; impulse withstand category II; Pollution degree 2; Material group IIIa; AOC (Adjustable Output Current), CLO (CONSTANT LUMEN OUTPUT at 20 step), MIDNIGHT. D4i driver has an integrated DALI bus power supply, and it 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. All models are suitable for direct mounting on normally flammable surfaces (IEC/EN IEC 60598-1:2021) only for values (most unfavorable) up to the following tc value: 73 °C for PRO FLAT DALI cod. 127576AR, PRO FLAT 38 DALI NFC LG cod. 142045 AK; 75 °C for PRO FLAT 38 CASAMBI NFC models; 70 °C for PRO FLAT 20 CASAMBI NFC models; 80 °C for PRO FLAT 20 HE NFC, PRO FLAT 40 HE NFC; 65 °C for PRO FLAT 22 D4i NFC BI.
DC operation	All models are suitable for d.c. operation (EL symbol) and they have been tested in the rated supply range 196-250 V for the specific use in centralized emergency installations (extended range 167-275 V), not intended for use in luminaires for high-risk task area lighting. Assessment to IEC 60598-2-22:2021 used in conjunction with IEC 60598-1:2020 (valid for EN IEC 60598-2-22:2022 used in conjunction with EN IEC 60598-1:2021) has been performed for independent models (for built-in model only Clauses 22.7.2, 22.7.3 and Annex 2 have been assessed).

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

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

	DALI models	PRO FLAT CASAMBI NFC models	HE models	PRO FLAT 22 D4i NFC BI
PRI ↔ SEC	R	R	R	R
PRI ↔ DALI	B	-	-	-
P1, P2 ↔ SEC	-	R	-	-
DALI ↔ SEC	R	-	-	-
PRI ↔ D4i	-	-	-	R
D4i ↔ SEC	-	-	-	S
active parts, P1/P2, DA ↔ the external surfaces of enclosure	R	R	R	R

Assessment to IEC 62493:2015, IEC 62493:2015/AMD1:2022 (valid for EN 62493:2015, EN 62493:2022) has been performed.

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