

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) : IPR4** (*means any alphanumeric characters) and IPR7 DALI NFC

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 61347-1:2015, 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

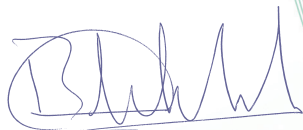
DEKRA hereby grants the right to use the ENEC certification mark.

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.

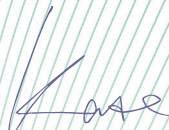
This certificate is issued on 13 May 2025 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 81-157794

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



Kate Xu
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)	: IPR4** (*means any alphanumeric characters) and IPR7 DALI NFC
Primary voltage	: 100-240 V for a.c., 176-275 for d.c.
Nature of supply	: alternate or direct current
Rated frequency	: 50-60 Hz, 0 Hz
Primary current	: From 0,07 to 0,1 A for a.c., from 0,05 to 0,085 A for d.c.
Secondary power	: From 0,36 W to 12 W
Secondary current	: From 0,1 A to 0,7 A
Type of load	: LED modules
Classification	: Independent, 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 documented in DEKRA test file 350964600.

Additional information

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

DEKRA test report No. 3509646.100 and 3509646.101 are laid down in DEKRA test file 350964600; they contain test results.

The list of components is laid down in test report 3509646.100.

Conclusion

The examination has confirmed 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 controlgears for LED modules with SELV stabilized output current. Primary supply: 220-240 V 50-60 Hz for IPR4 DALI NFC BI and IPR7 DALI NFC, 100*-127*-220-240 V 50/60 Hz for IPR4 HPFU models, 196-250 V (operative range 176-275 V) 0 Hz for all models.								
Type/s	Supply current (A)	Power factor	Prated (W)	SEC current (A)	Uout (V)	t _a (°C)	t _c (°C)	Use [2]
IPR4 6W 500mA HPFU (K2J39)	0,1 0,05 [1]	0,57-0,9 C (0,83@Po≥6W)	1-6	0,5	13	-20...55 -20...50*	75	II, 110, IP68
IPR4 8W 350mA HPFU (K2J40)	0,1 0,058 [1]	0,47-0,9 C (0,83@Po≥6W)	0,7-6*/8	0,35	24	-20...60 -20...55*	80	II, 110, IP68
IPR4 8W 700mA HPFU (K2J41)	0,1 0,058 [1]	0,55-0,9 C (0,88@Po≥6W)	1,4-6*/8	0,7	13	-20...45	80	II, 110, IP68
IPR4 9W 250mA HPFU (K2J42)	0,1 0,065 [1]	0,4-0,9 C (0,83@Po≥6W)	0,55-6*/9	0,25	39	-20...55	80	II, 110, IP68
IPR4 10W 350mA HPFU (K2J43)	0,1 0,072 [1]	0,47-0,9 C (0,83@Po≥6W)	0,75-6*/10	0,35	32	-20...55	80	II, 110, IP68
IPR7 DALI NFC (K2J53)	0,07 0,085 [1]	0,4 C-0,97 (0,95@Po≥9W)	0,36-12	0,1-0,7	59	-25...60	85	II, 110, IP68
IPR4 DALI NFC BI (K2J44)		0,45 C-0,98 (0,95@Po≥8W)						DI, 110
Notes: The Kxxxx code can replace the type reference. [1] – d.c. supply. [2] – II=Class II independent, IP68=protection to dust and water (2 m); DI=built-in with double insulation; 110=Thermal protection (C5.a).								

Connections		IPR4 DALI NFC BI	Other models
Input supply	PRI	Tails 0,75 mm ²	Cable 2x1,0 mm ²
Control	DALI	Tails 0,75 mm ²	Cable 1,0 mm ² only for IPR7 DALI NFC
Output load	SEC	Tails 0,5 mm ²	Cable 2x18AWG (2x0,75 mm ²)

Additional information	
Use	IP68 independent or built-in control gears for luminaire, up to 2000 m above sea level.
Features	For LED; stabilized output current (CC); multiple value load; short-circuit proof type; impulse withstand category II; Pollution degree 2; Material group IIIa. The material of enclosure was tested with favourable result for Glow-wire at temperature 750-960 °C. All models are suitable for direct mounting on normally flammable surfaces. Total circuit power: 8,5 W for IPR4 6W 500mA HPFU; 8/10 W for IPR4 8W 350mA HPFU, IPR4 8W 700mA HPFU; 8/11 W for IPR4 9W 250mA HPFU; 8/12 W for IPR4 10W 350mA HPFU; 14,7 W for IPR7 DALI NFC, IPR4 DALI NFC BI.
DC operation	Models suitable for d.c. operation (EL symbol) have been tested in the rated supply range 196-250 V for the specific use in centralized emergency installations (extended range 176-275 V); assessment to 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 EN 60598-1 or national deviations of the country when installed in the final application:	

INSULATION (B= basic, S= supplementary, R= double or reinforced)	
Active parts ↔ accessible parts of enclosure	R
PRI ↔ SEC; DA ↔ SEC	R
PRI ↔ DA	B
Assessment to EN 62493:2015 and EN 62493:2015/A1:2022 has been performed.	
Assessment to EN IEC 62442-3:2022 has been performed.	