

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) : DC NR** (*means any alphanumeric characters) and
DC R** (*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 and EN 61347-1:2015/A1:2021
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 6064204

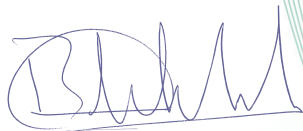
DEKRA hereby grants the right to use the DEKRA Mark.

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

This certificate is issued on 25 March 2025 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 81-127863 REV.1

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



Kate Xu
Certification Manager

© Integral publication of this certificate is allowed

ACCREDITED BY THE
DUTCH ACCREDITATION
COUNCIL



81-127863

DEKRA Mark is the new KEMA-KEUR

The DEKRA Mark certificate for this product is to all intents and purposes equivalent to a KEMA-KEUR certificate, the other certification mark used by DEKRA and should be valued and used as such. DEKRA Mark is gradually replacing KEMA-KEUR.

For more information please check: [Introducing DEKRA Mark](#)

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)	: DC NR** (*means any alphanumeric characters) and DC R** (*means any alphanumeric characters)
Primary voltage	: 110-240 V for a.c., 189-250 V for d.c.
Rated frequency	: 50/60 Hz or 50-60 Hz, 0 Hz
Primary current	: From 0,055 to 0,2 A for a.c., from 0,06 to 0,14 A for d.c.
Secondary current	: From 0,35 to 0,7 A
Secondary voltage	: 12 V
Type of load	: LED modules, power LED
Classification	: Independent or Built in; SELV Output

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

Test result

The test results are documented in DEKRA test file 350908000.

Additional information

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

This certificate replaces certificate No. 81-127863 which we hereby declare invalid.

The list of components is laid down in test report 3509080.470.

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:								
Controlgears for LED modules with stabilized output voltage or current. The output can be dimmable by pwm signal for R models. All models have SELV output. Primary voltage: 110-240 V 50/60 Hz or 50-60 Hz, 189-250 V *0 Hz; power factor=0,87C/0,9C for HPFU models, 0,55C/0,61C for other models.								
Type/s	supply voltage (V) [1]	supply current (A) [1]	Po (W) [2]	SEC	Uout (V)	ta (°C)	tc (°C)	Use [3]
DC 8W 12V R (K2386), DC 8W 12V RS (K2488), DC 8W 12V NRS (K2490)	220-240 110-127 170-280*	Max. 0,17 0,06*	8	12 V	14	-25..45	75	IND, II, 100
DC 8W 12V RBI (K2394), DC 8W 12V RSBI (K2489), DC 8W 12V NRSBI (K2491)						-	80	BI, 100
DC 15W 700mA R (K2494), DC 15W 700mA RS (K2495)	220-240 110-127 170-280*	0,17 0,2 0,11*	15 8-10 15*	700 mA	27	-25..45 -25..55	75	IND, II, 100
DC 15W 700mA RBI (K2569), DC 15W 700mA RSBI (K2A59)						-	80	BI, 100
DC 12W 350mA RS (K2A60)	220-240 110-127 170-280*	max. 0,16 0,09*	12 8 12*	350 mA	41	-25..45	75	IND, II, 100
DC 12W 350mA RSBI (K2A61)						-	80	BI, 100
DC 20W 700mA R HPFU (K2H41)	220-240 110-127 170-280*	0,11 0,18 0,14*	20 15 20*	700 mA	55	-25..50 -25..55	80	IND, II, 110
DC 20W 700mA RBI HPFU (K2H42)						-	80	BI, 110
DC 15W 350mA R HPFU (K2H43)	220-240 110-127 170-280*	0,09 0,16 0,1*	15	350 mA	55	-25..55	75	IND, II, 110
DC 15W 350mA RBI HPFU (K2H44)						-	80	BI, 110
DC 8W 12V R HPFU (K2H60)	220-240 110-127 170-280*	0,055 0,1 0,06*	8	12 V	13	-25..50	80	IND, II, 110
DC 8W 12V RBI HPFU (K2H61)						-	80	BI, 110
Notes: The Kxxxx code can replace the type reference. [1] – maximum value with a.c. or *d.c. supply. [2] – measured at 110-120 V / 220-240 V. [3] – IND= independent IP20; II= class II; BI= built-in model; 100= overheating protection (C.5.a type).								

Connections		
Input supply	PRI, IN, J1	screw terminals 0,75...2,5 mm ²
Control (not for NR models)	PWM, J3, J101	Connector
Output load	SEC, J2, J103	screw terminals 0,5...2,5 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 current; multiple value load; short-circuit proof type; impulse withstand category II; Pollution degree 2; Material group IIIa; thermal protection protection (C.5.a). The material of enclosure was tested with favourable result for Glow-wire at temperature 750-960 °C.			
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 (for built-in models only Clauses 22.7.2, 22.7.3 and 22.19 have been assessed).			
The creepage distances, clearances and connections of control gears in the final application shall be according to EN 60598-1 or national deviations of the country where installed:				
INSULATION B= basic, S= supplementary, R= double or reinforced, S/S= two SELV signals		DC 15W 700mA RS, DC 15W 700mA RSBI, DC 8W 12V RS, DC 8W 12V RSBI, DC 15W 700mA RS, DC 15W 700mA RSBI	DC 8W 12V NRS, DC 8W 12V NRSBI	other models
PRI ↔ SEC, PRI ↔ PWM (if present)		R		
SEC ↔ PWM (under 25 V a.c. / 60V r.f.d.c.)		S/S	-	-
SEC ↔ PWM (under 250 V)		-	-	R
active parts ↔ touchable parts of enclosure		R for independent models		
active parts ↔ bottom surface of enclosure		R		
All models are suitable for normally flammable surfaces according to EN 60598-1 with the following limits: tc≤ 65°C for DC 15W 350mA R HPFU; tc≤ 60°C for DC 8W 12V R HPFU, DC 20W 700mA R HPFU; declared tc for all other models. Assessment to EN 62493:2015 and EN 62493:2015/A1:2022 has been performed. Assessment to EN IEC 62442-3:2022 has been performed.				