

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) : PROFESSIONALE ** (* 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 61347-2-13:2014, 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

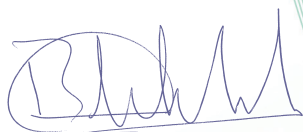
DEKRA hereby grants the right to use the ENEC certification mark.

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

Certificate number: 81-135849

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



H.R.M. Barends
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)	: PROFESSIONALE ** (* means any alphanumeric characters)
Primary voltage	: 220-240 V, 196-250 V
Nature of supply	: alternate current, direct current
Rated frequency	: 50/60 Hz or 50-60 Hz, 0 Hz
Primary current	: From 0,11 to 0,2 A for a.c., from 0,13 to 0,25 A for d.c.
Type of load	: LED modules, power LED
Secondary current	: From 0,125 to 1,05 A
Secondary power	: From 20 to 38 W
Classification	: Independent, Built-in

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 laid down in DEKRA test file 350908000.

Additional information

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

DEKRA test report No. 3509080.350 and 3509080.351 are laid down in DEKRA test file 350033600; they contain test results.

The list of components is laid down in test report 3509080.350.

Conclusion

The examination proved 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 controlgears for LED modules with stabilized output current (CC) depending on the selection of the S50 DIP switch or software programming. Dimming features are detailed in the technical specification. All models have SELV output.

Type/s	a.c./*d.c. supply (V) [1]	Input current (A)	Power factor	Max. Output power (W)	Output current (A)	Uout d.c. (V)	ta (°C)	tc (°C) [2]	Use [3]
PROFESSIONALE DALI (K2B74)	220-240	0,2	0,95	38	0,3-1,05	59	-25...45	85	II, 110
PROFESSIONALE DALI BI (K2B75)			(Po≥15 W)				-25...50	85	DI, 110
PROFESSIONALE DALI OF (K2B76)	*176-275	*0,25					-	80	OF
PROFESSIONALE DALI NFC (K2F77)	220-240	0,2	0,95	38	0,3-1,05	59	-25...50	85	II, 110
PROFESSIONALE DALI NFC BI (K2F78)	*176-275	*0,25	(Po≥15 W)				-25...50	85	DI, 110
PROFESSIONALE DALI NFC OF (K2F79)							-	80	OF
PROFESSIONALE CASAMBI (K2B77), PROFESSIONALE CASAMBI NFC (K2I31)	220-240	0,2	0,95	38	0,3-1,05	59	-25...45	85	II, 110
PROFESSIONALE CASAMBI BI (K2B78), PROFESSIONALE CASAMBI NFC BI (K2I32)	*176-275	*0,24	(Po≥15 W)				-25...50	85	DI, 110
PROFESSIONALE CASAMBI OF (K2B79), PROFESSIONALE CASAMBI NFC OF (K2I33)							-	80	OF
PROFESSIONALE MASTERCONNECT NFC (K2I97)	220-240	0,2	0,95	38	0,3-1,05	59	-25...45	85	II, 110
PROFESSIONALE MASTERCONNECT NFC BI (K2I98)	*176-275	*0,24	(Po≥15 W)				-25...50	85	DI, 110
PROFESSIONALE MASTERCONNECT NFC OF (K2I99)							-	80	OF
PROFESSIONALE BLL (K2J00)	220-240	0,2	0,95	38	0,3-1,05	59	-25...45	85	II, 110
PROFESSIONALE BLL BI (K2J01)			(Po≥15 W)				-25...50	85	DI, 110
PROFESSIONALE BLL OF (K2J02)							-	80	OF
PROFESSIONALE 1-10V (K2B71)	220-240	0,2	0,95	36	0,3-1,05	59	-25...40	80	II, 110
PROFESSIONALE 1-10V BI (K2B72)			(Po>13 W)				-25...45	80	BI, 110
PROFESSIONALE 1-10V OF (K2B73)	*176-275	*0,22					-	80	OF
PROFESSIONALE 20 DALI NFC (K2I25)	220-240	0,11	0,9 C	20	0,125-0,5	59	-25...50	80	II, 110, DNC
PROFESSIONALE 20 DALI NFC BI (K2I26)	*176-275	*0,13	(Po≥7,5 W)				-25...50	80	DI, 110
PROFESSIONALE 20 DALI NFC OF (K2I27)							-	80	OF
PROFESSIONALE 20 CASAMBI NFC (K2J03)	220-240	0,11	0,9 C	20	0,15-0,5	59	-25...50	80	II, 110, DNC
PROFESSIONALE 20 CASAMBI NFC BI (K2J04)	*176-275	*0,13	(Po≥7,5 W)				-25...50	80	DI, 110, DNC
PROFESSIONALE 20 CASAMBI NFC OF (K2J05)							-	80	OF

Notes: The Kxxxx code can replace the type reference. [1] – a.c. at 50-60 Hz or 50/60 Hz; *d.c. supply, see additional information for rated/operative range. [2] – tc is measured on the top of C15 for OF models. [3] – II= independent class II; DI= built-in with double insulation; BI= built-in; OF= built-in without enclosure; 110= overheating protection (C.5.a type); DNC= Do not cover.

Connections

Supply	PRI (L N)	screwless terminal block 0,5...1,5 mm ² (0,75...1,5 mm ² for independent models)
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Control (if present)	P1 P2, DA, DA/LS, DA/N	screwless terminal block 0,5...1,5 mm² (0,75...1,5 mm² for independent models)		
Local control (if present)	ADIM	screwless terminal block 0,5...1,5 mm²		
Output load	SEC (+ -)	screwless terminal block 0,5...1,5 mm²		
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 tests for OF models have been performed using the same enclosure of BI models. The material of enclosure was tested with favourable result for Glow-wire at temperature 750-960 °C. Total circuit power: 22,5 W for PROFESSIONALE 20 DALI NFC, PROFESSIONALE 20 CASAMBI NFC models; 40 W for PROFESSIONALE 1-10V models; 42 W for PROFESSIONALE DALI, PROFESSIONALE DALI NFC, PROFESSIONALE CASAMBI, PROFESSIONALE CASAMBI NFC, PROFESSIONALE MASTERCONNECT NFC, PROFESSIONALE BLL models.			
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 models only Clauses 22.7.2 and 22.7.3 have been assessed).			
The creepage distances, clearances and connections of control gears in the final application shall be according to IEC 60598-1 or national deviations of the country where installed:				
INSULATION (B= basic, S= supplementary, R= double or reinforced)		Independent models	BI models	OF models
active parts ↔ touchable parts of enclosure		R	R	-
active parts ↔ bottom surface of enclosure		R	R	-
PRI ↔ SEC, ADIM (if present)		R		
PRI ↔ DA		B		
SEC ↔ DA		R		
SEC ↔ DA/LS, DA/N, P1, P2		R		
Assessment to EN IEC 60598-2-22:2022 used in conjunction with EN IEC 60598-1:2021 has been performed.				
Assessment to EN 62493:2015, EN 62493/A1:2022 has been performed.				
Assessment to EN IEC 62442-3:2022 has been performed.				
Assessment to normally flammable surfaces according to EN 60598-1:2021 have been performed with the following limits:				
PROFESSIONALE DALI models, PROFESSIONALE DALI NFC models, PROFESSIONALE CASAMBI models, PROFESSIONALE CASAMBI NFC models, PROFESSIONALE MASTERCONNECT NFC models, PROFESSIONALE BLL models				tc≤ 65 °C
PROFESSIONALE 1-10V models				tc≤ 67 °C
PROFESSIONALE 20 DALI NFC models, PROFESSIONALE 20 CASAMBI NFC models				declared tc