

# 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) : DC MINI JOLLY \*\* DALI \*\* (\*means any alphanumeric characters) and  
MINI JOLLY \*\* DALI \*\* (\*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 021  
- a DEKRA certification agreement with the number 2033015

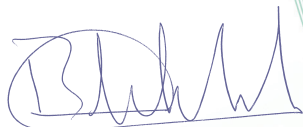
DEKRA hereby grants the right to use the ENEC certification mark.

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 4 August 2024 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 81-144729

DEKRA Certification B.V.



B.T.M. Holtus  
Managing Director



K Xu  
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)	: DC MINI JOLLY ** DALI ** (*means any alphanumeric character s) and MINI JOLLY ** DALI ** (*means any alphanumeric characters)
Primary voltage	: 110-240 V (or 110-127 V, 220-240 V) for a.c., 196-250 V for d.c.
Rated frequency	: 50/60 Hz, 0 Hz
Primary current	: From 0,11 A to 0,16 A for a.c., from 0,07-0,16 A for d.c.
Secondary power	: From 8,1 W to 25 W
Secondary current	: From 0,1 A to 0,9 A
Type of load	: LED modules, power LED
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 documented in DEKRA test file 350964600.

**Additional information**

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

The list of components is laid down in test report 3509646.220 and 3509646.221.

**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 electronic controlgears for LED modules with SELV output.

Type/s	PRI voltage (V)	PRI Curr ent (A)	Power Factor	Output Power (W) [1]	SEC outputs [1]	U <sub>out</sub> d.c. (V)	t <sub>a</sub> (°C)	t <sub>c</sub> (°C) [2]	Use [3]
DC MINI JOLLY 10 DALI (K2J24)	110-240	0,11	0,95 (Po>7 W)	10	0,25-0,7 A 24 V	55	-25..45	70	II, 110, DNC
DC MINI JOLLY 10 DALI BI (K2J25)	176-280*	0,07*							DI, 110
DC MINI JOLLY 10 DALI OF (K2J26)								-	80
MINI JOLLY EASY DALI (K2J18)	220-240	0,13	0,92 C-0,97 (Po>7 W)	8,1-25 13,5	0,15-0,9 A 24 V	59	-25..45	75	II, 110
MINI JOLLY EASY DALI BI (K2J19)	110-127	0,16							-25..50
MINI JOLLY EASY DALI OF (K2J20)	176-280*	0,16*						-	80
MINI JOLLY 25 DALI NFC (K2J21)	220-240	0,13	0,92 C-0,97 (Po>7 W)	5,4-25 13,5	0,1-0,9 A 0,1-0,9 A	59	-25..45	75	II, 110
MINI JOLLY 25 DALI NFC BI (K2J22)	110-127	0,16							-25..50
MINI JOLLY 25 DALI NFC OF (K2J23)	176-280*	0,16*						-	80

Notes: The Kxxxx code can replace the type reference. Supply frequency=50/60 Hz; \*0 Hz (see Additional information for rated values). [1] – Different values according to DIP switch or NFC selection (see label). [2] – t<sub>c</sub> is on the cap of C15 capacitor for OF models. [3] – II = independent IP20 class II; DI = built-in with double insulation; OF = built-in without enclosure; DNC = Do Not Cover; 110 = overheating protection.

Connection	Connection to supply (PRI) L, N	Connection to control (DALI) DA1, DA2	Connection to control NTC +/-	Connection to control ADIM +/-	Connection to load (SEC) +/-
DC MINI JOLLY 10 DALI	Screw-less terminal 0,75-1,5 mm <sup>2</sup>	Screw-less terminal 0,75-1,5 mm <sup>2</sup>	Screw-less terminal 0,5-1,5 mm <sup>2</sup>	-	Screw-less terminal 0,5-1,5 mm <sup>2</sup>
MINI JOLLY EASY DALI, MINI JOLLY 25 DALI NFC	Screw-less terminal 0,75-1,5 mm <sup>2</sup>	Screw-less terminal 0,75-1,5 mm <sup>2</sup>	-	Screw-less terminal 0,5-1,5 mm <sup>2</sup>	Screw-less terminal 0,5-1,5 mm <sup>2</sup>
DC MINI JOLLY 10 DALI BI, DC MINI JOLLY 10 DALI OF	Screw-less terminal 0,5-1,5 mm <sup>2</sup>	Screw-less terminal 0,5-1,5 mm <sup>2</sup>	Screw-less terminal 0,5-1,5 mm <sup>2</sup>	Screw-less terminal 0,5-1,5 mm <sup>2</sup>	Screw-less terminal 0,5-1,5 mm <sup>2</sup>
MINI JOLLY EASY DALI BI, MINI JOLLY EASY DALI O, MINI JOLLY 25 DALI NFC BI, MINI JOLLY 25 DALI NFC OF	Screw-less terminal 0,5-1,5 mm <sup>2</sup>	Screw-less terminal 0,5-1,5 mm <sup>2</sup>	-	Screw-less terminal 0,5-1,5 mm <sup>2</sup>	Screw-less terminal 0,5-1,5 mm <sup>2</sup>

Additional information	
Use	Independent and built-in for ordinary luminaire; up to 2000 m above sea level.
Features	For LED; stabilized output current (CC) or voltage (CV); 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. The output of DC MINI JOLLY 10 DALI models can be reduced by NTC signal in case of overheating on the LED module. Dimming features (local ADIM, DALI network) are detailed in the technical specification. Total circuit power: 12,6 W for DC MINI JOLLY 10 DALI models, 28,9 W for MINI JOLLY EASY DALI and MINI JOLLY EASY DALI 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 176-280 V); assessment to IEC 60598-2-22:2021 used in conjunction with 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).
INSULATION (B= basic, S= supplementary, R= double or reinforced)	
PRI ↔ DALI	B
DALI ↔ SEC, DALI ↔ NTC for DC MINI JOLLY 10 DALI models	S
DALI ↔ SEC, DALI ↔ ADIM for MINI JOLLY EASY DALI, MINI JOLLY 25 DALI NFC models	R
PRI ↔ SEC, active parts ↔ external surfaces of enclosure	R
<p>The OF models have been tested in the same enclosure of BI models, the safety evaluations must be repeated if they will be assembled alone in the final luminaire. The connections of controlgears in the final application shall be according to EN 60598-1 or national deviations of the country where installed.</p> <p>All models are suitable for direct mounting on normally flammable surfaces.</p> <p>Assessment to EN IEC 60598-2-22:2022 used in conjunction with EN IEC 60598-1:2021 has been performed.</p> <p>Assessment to EN 62493:2015, EN 62493/A1:2022 has been performed.</p> <p>Assessment to normally flammable surfaces according to EN 60598-1:2021 has been performed.</p> <p>Assessment to EN IEC 62442-3:2022 has been performed.</p>	