

CERTIFICATE

Issued to:
Applicant:
TCI Telecomunicazioni Italia Srl
Via Parma 14
21047 Saronno (VA), Italy

Licensee:
TCI Telecomunicazioni Italia Srl
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 MAXI JOLLY HC (series) and MP (series)

The product and any acceptable variation thereto is 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 the standard EN 61347-2-13:2014, EN 61347-2-13:2014/A1:2017, EN 61347-1:2015, EN 62384:2006 and EN 62384:2006/A1:2009
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a 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 of the ENEC certification agreement and under the conditions of the ENEC certification agreement.

This certificate is issued on 11 January 2021 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 81-117312

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



J.B.M.T. de Heuvel
Certification Manager

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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 MAXI JOLLY HC (series) and MP (series)
Primary voltage	: 110-240 V a.c., 189-250 V d.c.
Rated frequency	: 50/60 Hz, 0 Hz
Primary current	: From 0,29 A to 0,48 A for a.c., from 0,37 A to 0,41 A for d.c.
Type of load	: LED modules, power LED
Secondary current	: From 0,35 to 2,1 A
Secondary voltage	: From 24 to 58 V
Classification	: Independent, built-in

TESTS**Test requirements**

EN 61347-2-13:2014
EN 61347-2-13:2014/A1:2017
EN 61347-1:2015
EN 62384:2006
EN 62384:2006/A1:2009

Test result

The test results are laid down in DEKRA test file 350033600.

Additional information

DEKRA Test Report No. 2102978.50 and 2102978.60 are laid down in DEKRA test file 350033600; they contain test results.

The list of components is laid down in test report 2102978.50.

Conclusion

The examination proved that all requirements were met.

Factory location

TCI Telecomunicazioni Italia Srl
Via Parma 14
21047 Saronno (VA), Italy

General product information:									
The devices are electronic controlgears for LED modules. The devices have a stabilized output current or voltage according to the selection of the DIP switch. The output is SELV and it can be reduced by NTC control signal (if present) in case of overheating on the LED module. Dimming features are detailed in the technical specification: PUSH L, 1-10V, BILEVEL, BILEVEL N, DALI and BLL (wireless); MD models by external phase dimming. The SYNC port can synchronize other devices as master/slave configuration. SIGNAL GND and 12Vaux (if present) can supply an external fan. Models with different codes for different dimming: Codes 123xxx=PWM, 151xxx=AM.									
Type/s Codes 123xxx, 127xxx, 135xxx, 151xxx	Primary voltage (V)	Max. primary Current (A)	Power Factor	Output Power (W) [1]	Secondary Parameter [1]	Uout (V)	ta (°C)	tc (°C) [2]	Use [3]
DC MAXI JOLLY HC/2 (K2G34), DC MAXI JOLLY HC/2 DALI (K2G35)	220-240	0,29	0,95 (Po>27W)	45-55	1,05-2,1 A 48 V	55 -	-25..45	85	I, 110, MM
MP 55 HC/2 (K2507)	110-127 170-280*	0,45 0,37*	0,95 (Po>10W)	40			-25..40/45	85	
DC MAXI JOLLY HC BI (K2G36), DC MAXI JOLLY HC BILEVEL N BI (K2G37), DC MAXI JOLLY HC BILEVEL BI (K2G38), DC MAXI JOLLY HC DALI BI (K2G39)		0,33 0,48 0,4*		45-60 40			-25..45/50	85/90	BI, 110, MM
DC MAXI JOLLY HC BLL BI (K2907), DC MAXI JOLLY HC BLL BI EX (K2G52), DC MAXI JOLLY HC BLL BI EX PIR (K2G53)								80	
DC MAXI JOLLY HC BLL/2 (K2B37), DC MAXI JOLLY HC BLL/2 EX (K2G54), DC MAXI JOLLY HC BLL/2 EX PIR (K2G55)								80	I, 110, MM
MP 55 HC BI (K2223)		0,29	0,98 (Po>27W)	45-55				85	BI, 110, MM
MP 55 HC OF (K2229)		0,45 0,37*	0,98 (Po>10W)	40			-	80	OF
DC MAXI JOLLY HC OF (K2G40), DC MAXI JOLLY HC DALI OF (K2G41), DC MAXI JOLLY HC BILEVEL N OF (K2G42), DC MAXI JOLLY HC BILEVEL OF (K2G43), DC MAXI JOLLY HC BLL OF (K2908), DC MAXI JOLLY HC BLL EX OF (K2G44)		0,33 0,48 0,4*	0,95 (Po>27W) 0,95 (Po>10W)	45-60 40			-	80	OF
MP 55 HC/2 SI (K2553)	220-240	0,29	0,98 (Po>27W)	45-55	1,05-2,1 A 48 V	55 -	-25..45/50	85	II, 110, MM
MP 55 1400 BI (K2257)	110-127 170-280*	0,45 0,37*	0,98 (Po>10W)	40	1,05-1,4 A	55	-25..50		BI, 110, MM
MP 55 1400 S BI (K2B30)	220-240 170-280*	0,29 0,37*	0,98 (Po>27W)	45-55	1,05-1,4 A	59	-25..45	85	BI, 110, MM
DC MAXI JOLLY HC TC (K2G45), DC MAXI JOLLY HC DALI TC (K2G46)	220-240 110-127	0,29 0,43	0,95 (Po>27W) 0,95	45-55 40	1,05-2,1 A	55 -	-25..45	80	I, 110, MM
DC MAXI JOLLY TC (K2G47), DC MAXI JOLLY DALI TC (K2G48)	220-240 110-127	0,29 0,43	0,95 (Po>25W) 0,95	15-55 15-40	0,3-1,2 A	59 -	-25..45	75	I, 110, MM
MP 50 TC (K2308)	220-240 110-127	0,29 0,45 0,33*	0,98	25-50 25-40	0,35-1,05 A	90	-25..45	75	I, 110, MM
MP 50 TC OF (K2310)	170-280*						-	80	OF
Notes: see following page									

Type/s Codes 127xxx=PWM	Primary voltage (V)	Max. primary Current (A)	Power Factor	Output Power (W) [1]	Secondary Parameter [1]	Uout (V)	ta (°C)	tc (°C) [2]	Use [3]
DC MAXI JOLLY HC MD (K2G49)	220-240	0,3	0,95 (Po>25W)	45-50	1,05-2,1 A 24 V	59	-25..45	75	I, 110, MM
DC MAXI JOLLY HC MD BI (K2G50)						-	-25..50	85	BI, 110, MM
DC MAXI JOLLY HC MD OF (K2G51)						-	-	80	OF
MP 65 H/2 (K2531)	220-240	0,32	0,95 (Po>25W)	25-65	0,35 -1,2 A 58 V	95	-25..45/50	80	I, 110, MM
MP 65 HBI (K2547)	110-127	0,45		25-40		-	-25..45/50		BI, 110, MM
MP 65 H OF (K2555)	176-280*	0,41*				-	-	80	OF

Notes: Supply frequency=50/60 Hz; *0 Hz; [1] – Different values according to DIP switch selection (see label). [2] – tc measured on the top of C14 capacitor; [3] – Symbols: I=independent IP20 class I; II=independent IP20 class II; BI=built-in; 110= overheating protection (C.5.a type) and comply with temperature limit of clause 4.16.2 of EN 60598-1:04 ("F" triangle marking) EN 60598-1:2015; MM= suitable for direct mounting on normally flammable surfaces, limit according to VDE 0710 T14 ("MM" triangle marking); OF=built-in without enclosure.

Connection	TC models	All other models
PRI Supply L, N, PUSH L	Screw-less terminal block 0,2-1,5 mm ²	Screw-less terminal block 0,5-1,5 mm ² for BI models, 0,75-1,5 mm ² for Independent models
Protective earth (if present)	Screw-less terminal block 0,2-2,5 mm ²	Screw-less terminal block 0,5-1,5 mm ² for BI models, 0,75-1,5 mm ² for Independent models
DALI control (if present) DA, DA	Screw-less terminal block 0,2-1,5 mm ²	Screw-less terminal block 0,5-1,5 mm ²
Dimming control (if present) RED ON, RED OFF	N/A	Screw-less terminal block 0,5-1,5 mm ²
Analogic dimming (if present) 1..10V	Screw-less terminal block 0,2-1,5 mm ²	Screw-less terminal block 0,2-1,5 mm ²
SEC, 12Vaux, NTC, I-set, SIGNAL GND, PIR IN, PIR +, PIR -, SYNC (if present)	Connector	Connector
Load SEC + -	Screw terminal block 0,5-2,5 mm ²	Screw terminal block 0,5-2,5 mm ²

Additional information	
Use	Independent, built-in for ordinary luminaire.
Features	For LED; short-circuit proof type; impulse withstand category II; pollution degree 2 (Normal Pollution); material group IIIa; overheating protection (C.5.a) at 110 °C; the material of enclosure was tested for Glow-wire at temperature of 750-960 °C with favourable result. The heating tests for OF models have been performed using the same enclosure of BI models. TC models have terminals used for looping of supply and DALI
DC operation	The products were tested in 170-280 V 0 Hz operational range according to IEC 61347-2-13:2014 and they can be used for centralized emergency installations (EN 50171 and EN 50172) in the rated 189-250 V. d.c. operation can't be used for PUSH L/RED ON/OFF features. d.c. operation for standards different from IEC/EN 61347 can be allowed with external fuse installed in front of the ECG.

INSULATION: B= basic, S= supplementary, R= double or reinforced	L, N, PUSH L (if present)	Protective earth (if present)	Control DALI (if present)	Local control 1..10V	SEC
L, N, PUSH L (if present)	-	B	B	R	R
Protective earth (if present)	B	-	B	R	R
Control DALI (if present)	B	B	-	S	S
Local control 1..10V	R	R	S	-	-
SEC	R	R	S	-	-

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 in the final application:

INSULATION: B= basic, S= supplementary, R= double or reinforced	independent models	BI models	OF models
Between active parts ↔ touchable parts	R	B	-