CERTIFICATE

Issued to: Applicant:

TCl Telecomunicazioni Italia SrL Via Parma 14

21047 Saronno (VA), Italy

Licensee:

TCI Telecomunicazioni Italia SrL

Via Parma 14

21047 Saronno (VA), Italy

Product : Electronic circuits used with luminaires

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) : BLL 2CH ACTUATOR (series), SED (series) and SWITCH (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(s) EN 61347-2-11:2001, EN 61347-2-11:2001/A1:2019 and EN 61347-1:2015
- 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 14 February 2022 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 81-122507

DEKRA Certification B.V.

B.T.M. Holtus Managing Director

H.L. Schendstok Certification Manager

© Integral publication of this certificate is allowed

ACCREDITED BY THE DUTCH ACCREDITATION COUNCIL





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SPECIFICATION OF THE CERTIFIED PRODUCT

Product data

Product : Electronic circuits used with luminaires 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) : BLL 2CH ACTUATOR (series), SED (series) and

SWITCH (series)

Product data – type SED (series)

Primary voltage : 12/24/48 V Nature of supply : Constant current

Rated frequency : 0 Hz

Primary current : From 4,6 to 5 A

Output voltage : 12/24/48 V

Output power : From 55 to 240 W

Type of load : LED strip, LED modules

Classification : Independent, Built in

Product data - type BLL 2CH ACTUATOR (series) and SWITCH (series)

Primary voltage : 100-240 V
Nature of supply : Alternate current
Rated frequency : 50/60 Hz

Rated frequency : 50/60 Hz
Primary current : From 0,02 to 0,04 A
Classification : Independent, Built in

TESTS

Test requirements

EN 61347-2-11:2001

EN 61347-2-11:2001/A1:2019

EN 61347-1:2015

Test result

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

Additional information

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

DEKRA test report No. 3500336.560 is laid down in DEKRA test file 350033600; it contains test results and critical component list.

Conclusion

The examination proved that all requirements were met.



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Factory location TCI Telecomunicazioni Italia SrL Via Parma 14 21047 Saronno (VA), Italy



General product information:

The SED models are controllers for constant voltage (CV) LED modules, inserted between the LED driver (CV output) and the LED modules. The dimming can be analogic control (1-10V, Push LV, PUSH, PUSH) or wireless (BLL protocol); a movement detector can be present (PIR). EX models have an external antenna.

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Type/s	Input	Input	Total output	Output	ta	tc	Thermal	Use
	Voltage	current	Power	voltage	(°C)	(°C)	Protection	[4]
	[1]	[A]	(W)	(V) [1]			(°C)	
SED 4.5A R57 (K3036)	12	4,6	55	12	-2045	70	100 [2]	BI, MM
	24		110	24				
SED DCC 2CH BLL (K3044),	12	4,6	55	12	-2045	70	130 [3]	DI, PIR
SED DCC 2CH BLL EX	24		110	24				
(K3045)								
SED 4CH BLL/2 (K3050), SED	12	5	60	12	-2045	65	110 [3]	III, MM
4CH BLL EX/2 (K3051)	24		120	24				
	48		240	48				

Notes: [1] – DC voltage (0 Hz); [2] – Overheating protection (C.5.c). [3] – Overheating protection (C.5.a); /2 models comply with temperature limit of clause 4.16.2 of EN 60598-1:2015/A1:2018. [4] – III=independent class III; BI=built-in; DI=built-in with double insulation; MM= VDE 0710 T14 for "MM" triangle marking; PIR: passive infrared sensor.

The SWITCH 3P models are electronic switches for SED models or LED drivers; they switch on/off and dim the light by 1-3 pushbuttons. BLL 2CH ACTUATOR models switches different loads.

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Type/s	Input Voltage [1]	Input current [A]	ta (°C)	tc (°C)	Use [2]		
SWITCH 3P BLL (K3052)	110-240	0,04	-2545	55	BI, 3P		
SWITCH 3P BLL/2 (K3053), SWITCH 3P BLL EX/2 (K3054)	100-240	0,02	-2545	60	II, 3P		
BLL 2CH ACTUATOR (K3055), BLL 2CH ACTUATOR EX (K3056)					II, A, B		

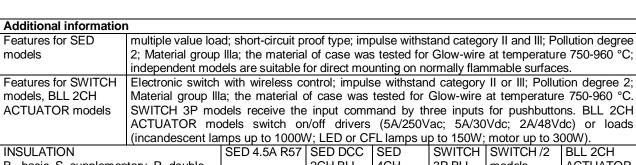
Notes: [1] – Supply voltage 50/60 Hz); [2] – Bl=built-in; II=independent IP20 class II; 3P= 1-3 controls by pushbutton; A, B=contacts for loads.

Connections for SED models	SED 4.5A R57	SED DCC 2CH BLL models	SED 4CH models	type
Input supply	IN	IN	V _{IN}	Screw terminal 0,75-2,5 mm ² or 0,5-2,5 mm ² for BI models
Dimming port	110V, Push LV	Push LV	PUSH	Screw terminal 0,5-2,5 mm ²
Movement sensor	Not present	In PIR	Not present	Connector (3 poles)
Output LED modules	OUT	OUT Ch1, OUT Ch2	+COM, W, R, G, B	Screw terminal 0,5-2,5 mm ²

Connections for	SWITCH 3P	SWITCH 3P BLL/2,	BLL 2CH ACTUATOR,	type
SWITCH models	BLL	SWITCH 3P BLL	BLL 2CH ACTUATOR	
		EX/2	EX	
Input supply	L, N	L, N	L, N	Screw terminal 0,75-2,5 mm ²
				or 0,5-2,5 mm ² for BI models
Control port	C, P1, P2, P3	C/N, IN1, IN2, IN3	A, B	Screw terminal 0,5-2,5 mm ²
				or 0,5-2,5 mm ² for BI models



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INSULATION	SED 4.5A R57	SED DCC	SED	SWITCH	SWITCH/2	BLL 2CH
B= basic, S=supplementary, R=double		2CH BLL	4CH	3P BLL	models	ACTUATOR
or reinforced		models	models			models
IN↔OUT	-	-	-	-	-	-
110V, Push LV, In PIR ↔ OUT,	-	-	-	-	-	-
PUSH ↔ OUT						
L, N ↔ C, P1, P2, P3, C/N, IN1, IN2, IN3	-	-	-	-	R	-
$L, N \leftrightarrow A, B$	-	-	-	-	-	R
Active parts↔external enclosure	В	R	R	R	R	R

Assessment to clause 4.2 of IEC/EN 62493:2015 standard has been performed for independent models.

Assessment to IEC 60598-2-2:2011 used in conjunction with IEC 60598-1:2014, AMD1:2017 (valid for EN 60598-2-2:2012 and EN 60598-1:2015/A1:2018) has been performed.

Assessment to MM mark according to VDE 0710 Part 14/04.82 has been performed.

Assessment to IEC 60669-2-1:2002/AMD1:2008/AMD2:2015 used in conjunction with IEC 60669-1:1998/AMD1:1999 /AMD2:2006 has been performed for SWITCH 3P models.