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)	:	MSE (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 March 2021 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 81-117967

DEKRA Certification B.V.

B.T.M. Holtus
Managing Director

F.S. Strikwerda
Certification Manager

ACCREDITED BY THE
DUTCH ACCREDITATION
COUNCIL

PRODUCTS
RvA C 001

DEKRA Certification B.V. Meander 1051, 6825 MJ Arnhem P.O. Box 5185, 6802 ED Arnhem, The Netherlands
T +31 88 96 83000 F +31 88 96 83100 www.dekra-product-safety.com Company registration 09085396

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)	:	MSE 10, MSE 12 and MSE 6
Primary voltage	:	220-240 V a.c.
Rated frequency	:	50-60 Hz
Type of load	:	LED modules, power LED
Classification	:	Built-in

Product data – type MSE 10

Primary current	:	0,057 to 0,06 A
Secondary current	:	0,35 to 0,5 A

Product data – type MSE 12

Primary current	:	0,07 A
Secondary current	:	0,25 to 0,35 A

Product data – type MSE 6

Primary current	:	0,042 A
Secondary current	:	0,35 to 0,5 A

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

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

DEKRA test report No. 2102749.50 and 2102749.60 are laid down in DEKRA test file 350033600; they contain test results.
Test report No. 2102749.50 contain critical component list.

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 intended to supply high power Light Emitting Diodes or LED modules. The devices have a constant output current, depending on the presence/absence of the jumper JP1 as in the marking. The stabilized output (SEC) is dimmable by different protocols: DALI, 1-10V, mains dim (MD). The output power can be up to Pout max with proportionate values of Iin. All models have SELV output.

Types	Primary voltage (50/60 Hz) (V) [1]	Max. primary current (A)	Power Factor	Output Power (W)	Output Parameter (mA)	Uout d.c. (V)	t_a (°C)	t_c (°C)	use [3]
MSE 10/350-500 DALI (K2D08)	220-240	0,057	0,98	7-10	350/500 [2]	28	-25..50	80	110, BI
MSE 10/350-500 (K2D09)									
MSE 6/350-500 DALI (K2D82)	220-240	0,042	0,88-0,93 C	2,8-6,5	350/500 [2]	20	-25..50	80	110, BI
MSE 10/350-500 1-10V (K2D57)	220-240	0,057	0,98	7-10	350/500 [2]	28	-25..50	80	110, BI
MSE 12/250-350 DALI (K2D83)	220-240	0,07	0,98	9-12,5	250/350 [2]	48	-25..50	80	110, BI
MSE 12/350 MD (K2D58)	220-240	0,07	0,97	12	350	59	-25..50	80	110, BI
MSE 10/500 MD (K2D58)	220-240	0,06	0,96	10	500	35	-25..50	75	110, BI

Notes: [1] – Rated value for AC range; [2] – Different values according to the presence/absence of the jumper JP1 (see marking). [3] – Use: 110=the products have an overheating protection (C.5.a) and comply with temperature limit of IEC 60598-1:2014/AMD1:2017; BI=built-in use.

Additional information	
Connections	screwless terminal block 0,5-1,5 mm²
Use	Built-in for ordinary luminaire, up to 2000 m above sea level.
Features	Stabilized output current (CC); multiple value load; short-circuit proof type; impulse withstand category II; Pollution degree 2; Material group IIIa. The material of enclosure was tested for Glow-wire at temperature of 850-960 °C with favourable result.

INSULATION: B= basic, S= supplementary, R= double or reinforced	Independent models
PRI ↔ SEC	R
PRI ↔ DA1, DA2; PRI ↔ 1-10V	B
DA1, DA2 ↔ SEC	R
1-10V ↔ SEC	S
active parts ↔ the external surfaces of enclosure	R

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.
Assessment to IEC 62493:2015 (valid for EN 62493:2015) has been performed.