Test Report issued under the responsibility of:

TEST REPORT
IEC 60598-2-1
Luminaires
Part 2: Particular requirements
Section 1: Fixed general purpose luminaires

Report Number. ..... :	SAFEONOKT210301
Date of issue ..... :	2022-05-02
Total number of pages ..... :	109 (including attachments)
Name of Testing Laboratory preparing the Report ..... :	IMQ Tecnocrea, S.L. C/ Sèquia de Benàger, 23. Pol. Ind. Alquería de Moret 46210 Picanya (Valencia) - Spain
Applicant's name ..... :	ONOK LUZ TÉCNICA, S.L.
Address ..... :	Polígono Industrial B, parcela 3. 46800 Xàtiva (Valencia) - Spain
Test specification:	
Standard ..... :	IEC 60598-2-1:2020 used in conjunction with IEC 60598-1:2020
Test procedure ..... :	CE SAFE
Non-standard test method ..... :	N/A
TRF template used ..... :	IECEE OD-2020-F1:2020, Ed.1.3
Test Report Form No. ..... :	IEC60598_2_1H
Test Report Form(s) Originator .... :	Intertek Semko AB
Master TRF ..... :	Dated 2021-05-21

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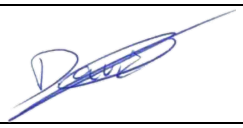
The tests marked with * are not covered by the accreditation of ENAC

ENSAYOS
Nº 1076/LE2135

Test item description ..... :	Fixed general purpose luminaire
Trade Mark(s) ..... :	ONOK
Manufacturer ..... :	ONOK LUZ TÉCNICA, S.L.
Model/Type reference ..... :	Refer to “General product information” for details
Ratings ..... :	Refer to “General product information” for details

Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):

☒	**Testing Laboratory:**	**IMQ Tecnocrea, S.L.**	
Testing location/ address.....:		C/ Sèquia de Benàger, 23. Pol. Ind. Alquería de Moret 46210 Picanya (Valencia) - Spain	
Tested by (name, function, signature).....:		**David Martínez** [Laboratory Technician]	
Approved by (name, function, signature)...:		**David Latorre** [Technical Manager]	

List of Attachments (including a total number of pages in each attachment):

Attachment No. 1: Photo document, total 44 pages.
Attachment No. 2: European Group Differences and National Differences of EN 60598-1 and EN 60598-2-1, total 2 pages.
Attachment No. 3: LED modules for general lighting – Safety specification IEC 62031 and EN IEC 62031, total 5 pages.

Summary of testing:

This Test Report covers the evaluation on references: Refer to “General product information” for details.

Following technical evaluation all tests have been carried out on models:

- LNERA28D3AWS + LNEXKSED150WS + LNEXKSUP150WS
- KDT1A10D33DBS + KPRXX05XXXXBS
- KFC4A40D32ABS + KPRXX05XXXXBS
- KTB2A25D32ABS + KPRXX05XXXXBS
- KBLPA04D39ABS + KPRXX05XXXXBS

Partial tests have been carried out on the other models of the series as follows:

- LNERA28N3AWS (Clauses: 10 and 12.4 tc only)
- LNERA22D3AWS + LNEXKSED150WS + LNEXKSUP150WS (Clauses: 10 and 12.4 tc only)
- KDT1A10N33DBS + KPRXX05XXXXBS (Clauses: 10 and 12.4 tc only)
- KFC5AN34BBS + KPRXX05XXXXBS (Clauses: 4, 7, 10 and 12)
- KFC2A25N32ABS + KPRXX05XXXXBS (Clauses: 10 and 12.4 tc only)
- KLR1A10D39ABS + KPRXX05XXXXBS (Clauses: 10 and 12)
- KBLUA04D39ABS + KPRXX05XXXXBS (Clauses: 12.4 tc only)

Tests performed (name of test and test clause):	**Testing location:**
Test Report No. SAFEONOKT210301 §1.4 (0)- General test requirements §1.5 (2)- Classification of luminaires §1.6 (3)- Marking §1.7 (4)- Construction §1.8 (11)- Creepage distances and clearances §1.9 (7)- Provision for earthing §1.10 (14)- Screw terminals §1.10 (15)- Screwless terminals and electrical connections §1.11 (5)- External and internal wiring §1.12 (8)- Protection against electric shock §1.13 (12)- Endurance test and thermal test §1.14 (9)- Resistance to dust and moisture §1.16 (10)- Insulation resistance and electric strength §1.16 (13)- Resistance to heat, fire and tracking	IMQ TECNOCREA, S.L. C/ Sèquia de Benàger, 23 Pol. Ind. Alquería de Moret 46210 Picanya (Valencia) – Spain

Summary of compliance with National Differences (List of countries addressed):

- **European group differences.**

Statement concerning the uncertainty of the measurement systems used for the tests

(may be required by the product standard or client)

☒ **Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:**

-PTG_TECNO_05 (Technical procedure for the estimation of uncertainty in the laboratories of the advanced tests area), in order to ensure compliance with the IEC Guide 115 “Application of uncertainty of measurement to conformity assessment activities in the electrotechnical sector” and IECEE OD-5014.

-PTG_TECNO_02 (General technical procedure for control, identification, calibration, maintenance and verification of the measurement equipment) which ensures that the requirements for traceability of calibrations, of all test equipment requiring calibration, and calibration intervals are met.

Internal Procedures are to be assumed in the current version at the time of the TR issue.

Uncertainties of measurements are calculated and available to the customer.

☐ **Statement not required by the standard used for type testing**

Statement of conformity

The statement of compliance with specification (or requirements) is based on a 95% coverage probability for the expanded uncertainty of the measurements results on which the decision of compliance is based.

The statement of compliance relates only to the test sample as tested and no to the simples/items which the test sample was drawn.

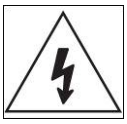
This Test Report is the result of testing a sample of the product submitted, in accordance with the provisions of the specified Technical Specification(s)/Standard(s). It does not imply any judgment on the production and it does not permit the use of a mark of conformity.

Decision Rule applied

When decision rule for the statement of conformity is not inherent in the standard, then the binary statement for simple acceptance (or reject) rule is applied (w=0). In this case, the risk of false acceptance (or false reject) is up to 50%.

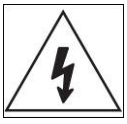
Copy of marking plate:

LINE R SURFACE / LNERA28D3AWS + LNEXKSED150WS + LNEXKSUP150WS



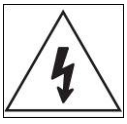
Location: Luminaire Location: Track Location: Suspension system

LINE R PENDANT / LNERA28N3AWS



Location: Luminaire

LINE R PENDANT / LNERA22D3AWS + LNEXKSED150 WS + LNEXKSUP150WS



Location: Luminaire Location: Track Location: Suspension system

CLICK DOT 10 / KDT1A10D33DBS + KPRXX05XXXXBS

Location: Luminaire Location: Track

CLICK DOT 10 / KDT1A10N33DBS + KPRXX05XXXXBS

Location: Luminaire Location: Track

CLICK FOCU 55 / KFC5AN34BBS + KPRXX05XXXXBS

Location: Luminaire Location: Track

CLICK FOCUS 40 / KFC4A40D32ABS + KPRXX05XXXXBS

Location: Luminaire Location: Track

CLICK FOCUS 25 / KFC2A25N32ABS + KPRXX05XXXXBS

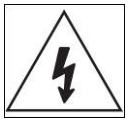
Location: Luminaire Location: Track

CLICK TUBE 25 / KTB2A25D32ABS + KPRXX05XXXXBS

Location: Luminaire

Location: Track

CLICK LINEAR / KLR1A10D39ABS + KPRXX10XXXXBS



Location: Luminaire

Location: Track

CLCK PENDANT / KBLPA04D39ABS + KPRXX05XXXXBS

Location: Luminaire

Location: Track

CLKC BALO UP / KBLUA04D39ABS + KPRXX05XXXXBS

Location: Luminaire

Location: Track

Test item particulars.....:	Fixed general purpose luminaire
Classification of installation and use.....:	Suitable for direct mounting on normally flammable surfaces, indoor use
Supply Connection.....:	Terminal block
Possible test case verdicts:	
- test case does not apply to the test object.....:	N/A
- test object does meet the requirement.....:	P (Pass)
- test object does not meet the requirement.....:	F (Fail)
Testing.....:	
Date of receipt of test item .....:	2021-09-21
Date (s) of performance of tests.....:	2021-09-21 to 2022-04-28

General remarks:

"(See Enclosure #)" refers to additional information appended to the report.
"(See appended table)" refers to a table appended to the report.

Throughout this report a ☒ comma / ☐ point is used as the decimal separator.

The ability or reliability of this product to perform its intended function in a particular application has not been investigated.

Unless otherwise specified, warnings, installation instructions and/or user manual provided with the sample have been checked in Spanish or English version only.

Testing laboratory accepts no responsibility for the information provided by the applicant.

Clause numbers between brackets refer to clauses in IEC 60598-1

General product information and other remarks:

1. Maximum CCT **3000K**.
2. LED component according EN 62471 classification risk group:
   ☐ RG0 ☒ RG1 ☐ RG2 ☐ RG3
   (The EN 62471 information is based on data sheet Nº LED Line SMD Comfort Gen. 2 – W2 L07/14/28/50/56). For references LNERA28D3AWS + LNEXKSED150WS + LNEXKSUP150WS, LNERA28N3AWS and LNERA22D3AWS + LNEXKSED150WS + LNEXKSUP150 WS.

3. Maximum CCT **3000K**.
4. LED component according EN 62471 classification risk group:
   ☐ RG0 ☐ RG1 ☒ RG2 ☐ RG3
   (The EN 62471 information is based on the test report Nº 15-04-01). For references KDT1A10D33DBS + KPRXX05XXXXBS, KFC5AN34BBS + KPRXX05XXXXBS, KBLPA04D39ABS + KPRXX05XXXXBS and KBLUA04D39ABS + KPRXX05XXXXBS.

5. Maximum CCT **3000K**.
6. LED component according EN 62471 classification risk group:
   ☐ RG0 ☒ RG1 ☐ RG2 ☐ RG3
   (The EN 62471 information is based on the data sheet Nº LUGA Shop Gen. 5 – Retail and Industrial Lighting). For references KFC5AN34BBS + KPRXX05XXXXBS and KTB2A25D32ABS + KPRXX05XXXXBS.

7. Maximum CCT **3000K**.
8. LED component according EN 62471 classification risk group:
   ☐ RG0 ☐ RG1 ☒ RG2 ☐ RG3
   (The EN 62471 information is based on the data sheet CLD-AP34 REV 31). For reference KFC4A40D32ABS + KPRXX05XXXXBS.

9. Maximum CCT **3000K**.
10. LED component according EN 62471 classification risk group:
    ☐ RG0 ☒ RG1 ☐ RG2 ☐ RG3
    (The EN 62471 information is based on the test report Nº IE210178). For reference KFC2A25N32ABS + KPRXX05XXXXBS.

11. Maximum CCT **3000K**.
12. LED component according EN 62471 classification risk group:
    ☐ RG0 ☒ RG1 ☐ RG2 ☐ RG3
    (The EN 62471 information is based on data sheet Nº LED Line SMD Gen. 3 – L07/14/28/56/70/75/112 W2). For reference KLR1A10D39ABS + KPRXX05XXXXBS.

References tested:

Model/Type reference	**Sample ID**	**Ratings**
LINE R SURFACE / LNERA28D3AWS + LNEXKSED150WS + LNEXKSUP150WS	EBP_SAFEONOKT210301	220-240V~50/60Hz. Class I. LED. 56W. IP20.
LINE R PENDANT / LNERA28N3AWS	EBP_SAFEONOKT210302	220-240V~50/60Hz. Class I. LED. 56W. IP20.
LINE R PENDANT / LNERA22D3AWS + LNEXKSED150WS + LNEXKSUP150WS	EBP_SAFEONOKT210303	220-240V~50/60Hz. Class I. LED. 45W. IP20.
CLICK DOT 10 / KDT1A10D33DBS + KPRXX05XXXXBS	EBP_SAFEONOKT210304	220-240V~50/60Hz. Class I. LED. 24W. IP20.
CLICK DOT 10 / KDT1A10N33DBS + KPRXX05XXXXBS	EBP_SAFEONOKT210305	220-240V~50/60Hz. Class I. LED. 24W. IP20.
CLICK FOCU 55 / KFC5AN34BBS + KPRXX05XXXXBS	EBP_SAFEONOKT210306	220-240V~50/60Hz. Class I. LED. 12,2W. IP20.
CLICK FOCUS 40 / KFC4A40D32ABS + KPRXX05XXXXBS	EBP_SAFEONOKT210307	220-240V~50/60Hz. Class I. LED. 8,7W. IP20.
CLICK FOCUS 25 / KFC2A25N32ABS + KPRXX05XXXXBS	EBP_SAFEONOKT210308	220-240V~50/60Hz. Class I. LED. 12W. IP20.
CLICK TUBE 25 / KTB2A25D32ABS + KPRXX05XXXXBS	EBP_SAFEONOKT210309	220-240V~50/60Hz. Class I. LED. 21W. IP20.
CLICK LINEAR / KLR1A10D39ABS + KPRXX05XXXXBS	EBP_SAFEONOKT210310	220-240V~50/60Hz. Class I. LED. 16W. IP20.
CLCK PENDANT / KBLPA04D39ABS + KPRXX05XXXXBS	EBP_SAFEONOKT210311	220-240V~50/60Hz. Class I. LED. 11W. IP20.
CLKC BALO UP / KBLUA04D39ABS + KPRXX05XXXXBS	EBP_SAFEONOKT210312	220-240V~50/60Hz. Class I. LED. 11W. IP20.

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict
1.4 (0)	**GENERAL TEST REQUIREMENTS**		**P**
1.4 (0.3)	More sections applicable ..... :	Yes ☐ No ☒ Section/s:	—
1.4 (0.5)	Components	(see Annex 1)	—
1.4 (0.7)	**Information for luminaire design in light sources standards**		—
1.4 (0.7.2)	Light source safety standard ..... :	IEC/EN 62031	—
	Luminaire design in the light source safety standard		P
1.5 (2)	**CLASSIFICATION OF LUMINAIRES**		**P**
1.5 (2.2)	Type of protection ..... :	Class I	P
1.5 (2.3)	Degree of protection ..... :	IP20	—
1.5 (2.4)	Luminaire suitable for direct mounting on normally flammable surfaces ..... :	Yes ☒ No ☐	—
1.5 (2.5)	Luminaire for normal use ..... :	Yes ☒ No ☐	—
	Luminaire for rough service ..... :	Yes ☐ No ☒	—
1.6 (3)	**MARKING**		**P**
1.6 (3.2)	Mandatory markings		P
	Position of the marking		P
	Format of symbols/text		P
1.6 (3.3)	Additional information		P
	Language of instructions		P
1.6 (3.3.1)	Combination luminaires		N/A
1.6 (3.3.2)	Nominal frequency in Hz	50/60Hz	P
1.6 (3.3.3)	Operating temperature		N/A
1.6 (3.3.5)	Wiring diagram		P
1.6 (3.3.6)	Special conditions		N/A
1.6 (3.3.7)	Metal halide lamp luminaire – warning		N/A
1.6 (3.3.8)	Limitation for semi-luminaires		N/A
1.6 (3.3.9)	Power factor and supply current		N/A
1.6 (3.3.10)	Suitability for use indoors	Indoor use	P
1.6 (3.3.11)	Luminaires with remote control		N/A
1.6 (3.3.12)	Clip-mounted luminaire – warning		N/A
1.6 (3.3.13)	Specifications of protective shields		N/A
1.6 (3.3.14)	Symbol for nature of supply	~	P

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict
1.6 (3.3.15)	Rated current of socket outlet		N/A
1.6 (3.3.16)	Rough service luminaire		N/A
1.6 (3.3.17)	Mounting instruction for type Y, type Z and some type X attachments		N/A
1.6 (3.3.18)	Non-ordinary luminaires with PVC cable		N/A
1.6 (3.3.19)	Protective conductor current in instruction if applicable		N/A
1.6 (3.3.20)	Provided with information if not intended to be mounted within arm's reach		N/A
1.6 (3.3.21)	Non replaceable and non-user replaceable light sources information provided	Non-user replaceable	P
1.6 (3.3.22)	Controllable luminaires, classification of insulation provided		P
1.6 (3.3.23)	Luminaires without control gear provided with necessary information for selection of appropriate component		N/A
1.6 (3.3.24)	If not supplied with terminal block, information on the packaging		N/A
1.6 (3.3.25)	Luminaires employing light sources emitting UV on mains wiring, information provided		N/A
1.6 (3.3.26)	Wall mounted luminaire using external flexible cable or cord longer than 0,3 m, information provided		N/A
1.6 (3.4)	Test with water	15s	P
	Test with hexane	15s	P
	Legible after test		P
	Label attached		P
1.7 (4)	**CONSTRUCTION**		**P**
1.7 (4.2)	Components replaceable without difficulty		P
1.7 (4.3)	Wireways smooth and free from sharp edges		P
1.7 (4.4)	**Lamp holders**		**N/A**
1.7 (4.4.1)	Integral lamp holder		N/A
1.7 (4.4.2)	Wiring connection		N/A
1.7 (4.4.3)	Lamp holder for end-to-end mounting		N/A
1.7 (4.4.4)	Positioning		N/A
	- pressure test (N) ..... :		—
	After test the lamp holder comply with relevant standard sheets and show no damage		N/A

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict
	After test on single-capped lamp holder the lamp holder has not moved from its position and show no permanent deformation		N/A
	- bending test (N) ..... :		—
	After test the lamp holder has not moved from its position and show no permanent deformation		N/A
1.7 (4.4.5)	Peak pulse voltage		N/A
1.7 (4.4.6)	Centre contact		N/A
1.7 (4.4.7)	Parts in rough service luminaires resistant to tracking		N/A
1.7 (4.4.8)	Lamp connectors		N/A
1.7 (4.4.9)	Caps and bases correctly used		N/A
1.7 (4.4.10)	Light source for lamp holder or connection according IEC 60061 not connected another way		N/A
1.7 (4.5)	**Starter holders**		**N/A**
	Starter holder in luminaires other than class II		N/A
	Starter holder class II construction		N/A
1.7 (4.6)	**Terminal blocks**		**N/A**
	Tails		N/A
	Unsecured blocks		N/A
1.7 (4.7)	**Terminals and supply connections**		**P**
1.7 (4.7.1)	Contact to metal parts		P
1.7 (4.7.2)	Test 8 mm live conductor		P
	Test 8 mm earth conductor		P
1.7 (4.7.3)	Terminals for supply conductors		P
1.7 (4.7.3.1)	Welded method and material		N/A
	- stranded or solid conductor		N/A
	- spot welding		N/A
	- welding between wires		N/A
	- Type Z attachment		N/A
	- mechanical test according to 15.6.2		N/A
	- electrical test according to 15.6.3		N/A
	- heat test according to 15.6.3.2.3 and 15.6.3.2.4		N/A
1.7 (4.7.4)	Terminals other than supply connection		N/A
1.7 (4.7.5)	Heat-resistant wiring/sleeves		N/A
1.7 (4.7.6)	Multi-pole plug		N/A
	- test at 30 N		N/A

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict
1.7 (4.8)	**Switches**		**N/A**
	- adequate rating		N/A
	- adequate fixing		N/A
	- polarized supply		N/A
	- compliance with IEC 61058-1 for electronic switches		N/A
1.7 (4.9)	**Insulating lining and sleeves**		**P**
1.7 (4.9.1)	Retainment		P
	Method of fixing ..... :	Mechanical (KFC4A40D32ABS + KPRXX05XXXXBS) (KTB2A25D32ABS + KPRXX05XXXXBS)	P
1.7 (4.9.2)	Insulated linings and sleeves:		N/A
	Resistant to a temperature > 20 ºC to the wire temperature or		N/A
	a) & c) Insulation resistance and electric strength		N/A
	b) Ageing test. Temperature (ºC) ..... :		N/A
1.7 (4.10)	**Double or reinforced insulation**		**N/A**
1.7 (4.10.1)	No contact, mounting surface – accessible metal parts – wiring of basic insulation		N/A
	Safe installation fixed luminaires		N/A
	Capacitors and switches		N/A
1.7 (4.10.2)	Assembly gaps:		N/A
	- not coincidental		N/A
	- no straight access with test probe		N/A
1.7 (4.10.3)	Retainment of insulation:		N/A
	- fixed		N/A
	- unable to be replaced; luminaire inoperative		N/A
	- sleeves retained in position		N/A
	- lining in lamp holder		N/A
1.7 (4.10.4)	Protective impedance device		N/A
	Basic and supplementary insulation bridged by resistor(s) or appropriate capacitor		N/A
	Double or reinforced insulation bridged by at least two separate resistors in series or appropriate capacitor(s)		N/A
	Capacitors comply with IEC 60384-14		N/A

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Resistors comply with test (a) in 14.2 of IEC 60065		N/A
1.7 (4.11)	**Electrical connections and current-carrying parts**		**P**
1.7 (4.11.1)	Contact pressure		P
1.7 (4.11.2)	Screws:		P
	- self-tapping screws		P
	- thread-cutting screws		N/A
1.7 (4.11.3)	Screw locking:		N/A
	- spring washer		N/A
	- rivets		N/A
1.7 (4.11.4)	Material of current-carrying parts		P
1.7 (4.11.5)	No contact to wood or mounting surface		P
1.7 (4.11.6)	Electro-mechanical contact systems		N/A
1.7 (4.12)	**Screws and connections (mechanical) and glands**		**P**
1.7 (4.12.1)	Screws not made of soft metal		P
	Screws of insulating material		P
	Torque test: torque (Nm); part..... :	0,4; insulating end cap	P
	Torque test: torque (Nm); part..... :	0,4; convertor screw	P
	Torque test: torque (Nm); part..... :	0,5; terminal block fixing	P
1.7 (4.12.2)	Screws with diameter < 3 mm screwed into metal		P
1.7 (4.12.4)	Locked connections:		N/A
	- fixed arms; torque (Nm) ..... :		N/A
	- lamp holder; torque (Nm) ..... :		N/A
	- push-button switches; torque 0,8 Nm ..... :		N/A
1.7 (4.12.5)	Screwed glands; force (Nm)..... :		N/A
1.7 (4.13)	**Mechanical strength**		**P**
1.7 (4.13.1)	Impact tests:		P
	- fragile parts; energy (Nm) ..... :	Diffuser; 0,2 (LNERA28D3AWS + LNEXKSED150WS + LNEXKSUP150WS) (LNERA28N3AWS) (LNERA22D3AWS + LNEXKSED150WS + LNEXKSUP150WS) (KLR1A10D39ABS + KPRXX05XXXXBS)	P
	- other parts; energy (Nm)..... :	Luminaire enclosure; 0,35	P
	1) live parts		P

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict
	2) linings		P
	3) protection		P
	4) covers		P
1.7 (4.13.2)	Metal parts have adequate mechanical strength		P
1.7 (4.13.3)*	Straight test finger		P
1.7 (4.13.4)	Rough service luminaires		N/A
	- IP54 or higher		N/A
	a) fixed		N/A
	b) hand-held		N/A
	c) delivered with a stand		N/A
	d) for temporary installations and suitable for mounting on a stand		N/A
1.7 (4.13.6)	Tumbling barrel		N/A
1.7 (4.14)	**Suspensions, fixings and means of adjusting**		**P**
1.7 (4.14.1)	Mechanical load:		P
	A) four times the weight	21,6kg = 5,4kg x 4 (LNERA28D3AWS + LNEXKSED150WS + LNEXKSUP150WS) 4,4kg = 1,1kg x 4 (KDT1A10D33DBS + KPRXX05XXXXBS) (KFC4A40D32ABS + KPRXX05XXXXBS) 4,8kg = 1,2kg x 4 (KFC5AN34BBS + KPRXX05XXXXBS) 6kg = 1,5kg x 4 (KTB2A25D32A BS + KPRXX05XXXXBS) (KBLPA04D39ABS + KPRXX05XXXXBS)	P
	B) torque 2,5 Nm		N/A
	C) bracket arm; bending moment (Nm) ..... :		N/A
	D) load track-mounted luminaires		N/A
	E) clip-mounted luminaires, glass-shelve. Thickness (mm) ..... :		N/A
	Metal rod. diameter (mm) ..... :		N/A
	Fixed luminaire or independent control gear without fixing devices		N/A

* The tests marked with * are not enshrined by ENAC accreditation.

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Clause	Requirement + Test	Result - Remark	Verdict
1.7 (4.14.2)	Load to flexible cables		P
	Mass (kg) ..... :	0,3kg (KTB2A25D32ABS + KPRXX05XXXXBS) 0,26kg (KBLPA04D39ABS + KPRXX05XXXXBS)	—
	Stress in conductors (N/mm²) ..... :	6,7 (KTB2A25D32ABS + KPRXX05XXXXBS) 5,8 (KBLPA04D39ABS + KPRXX05XXXXBS)	P
	Mass (kg) of semi-luminaire ..... :		N/A
	Bending moment (Nm) of semi-luminaire ..... :		N/A
1.7 (4.14.3)	Adjusting devices:		P
	- flexing test; number of cycles..... :	150 (KFC5AN34BBS + KPRXX05XXXXBS) (KFC4A40D32ABS + KPRXX05XXXXBS)	P
	- strands broken ..... :	No strands broken	P
	- electric strength test afterwards		P
1.7 (4.14.4)	Telescopic tubes: cords not fixed to tube; no strain on conductors		N/A
1.7 (4.14.5)	Guide pulleys		N/A
1.7 (4.14.6) *	Strain on socket-outlets		N/A
1.7 (4.15)	**Flammable materials**		**P**
	- glow-wire test 650ºC ..... :	See Test Table 1.15 (13.3.2)	P
	- spacing ≥ 30 mm		N/A
	- screen withstanding test of 13.3.1		N/A
	- screen dimensions		N/A
	- no fiercely burning material		P
	- thermal protection		N/A
	- electronic circuits exempted		N/A
1.7 (4.15.2)	Luminaires made of thermoplastic material with lamp control gear		N/A
	a) construction		N/A
	b) temperature sensing control		N/A
	c) surface temperature		N/A
1.7 (4.16)	**Luminaires for mounting on normally flammable surfaces**		**P**
	No lamp control gear..... :	(compliance with Section 12)	N/A

* The tests marked with * are not enshrined by ENAC accreditation.

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Clause	Requirement + Test	Result - Remark	Verdict
	Provided with adaptor for a track meet the requirements for direct mounting on normally flammable surfaces		N/A
1.7 (4.16.1)	Lamp control gear spacing:		N/A
	- spacing 35 mm		N/A
	- spacing 10 mm		N/A
1.7 (4.16.2)	Thermal protection:		N/A
	- in lamp control gear		N/A
	- external		N/A
	- fixed position		N/A
	- temperature marked lamp control gear		N/A
1.7 (4.16.3)	Design to satisfy the test of 12.6	(see clause 12.6)	N/A
1.7 (4.17)	**Drain holes**		**N/A**
	Clearance at least 5 mm		N/A
1.7 (4.18)	**Resistance to corrosion**		**N/A**
1.7 (4.18.1)	- rust-resistance		N/A
1.7 (4.18.2)	- season cracking in copper		N/A
1.7 (4.18.3)	- corrosion of aluminium		N/A
1.7 (4.19)	Ignitors compatible with ballast		N/A
1.7 (4.20) *	Rough service vibration		N/A
1.7 (4.21)	**Protective shield**		**N/A**
1.7 (4.21.1)	Shield fitted if tungsten halogen lamps or metal halide lamps		N/A
	Shield of glass if tungsten halogen lamps		N/A
1.7 (4.21.2)	Particles from a shattering lamp not impair safety		N/A
1.7 (4.21.3)	No direct path		N/A
1.7 (4.21.4)	Impact test on shield		N/A
	Glow-wire test on lamp compartment ..... :	See Test Table 1.15 (13.3.2)	N/A
1.7 (4.22)	Attachments to lamps not cause overheating or damage		N/A
1.7 (4.23)	Semi-luminaires comply Class II		N/A
1.7 (4.24)	**Photobiological hazards**		**P**
1.7 (4.24.1)	No excessive UV radiation if tungsten halogen lamps and metal halide lamps (Annex P)		N/A
1.7 (4.24.2)	Retinal blue light hazard		P

* The tests marked with * are not enshrined by ENAC accreditation.

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Clause	Requirement + Test	Result - Remark	Verdict
	Class of risk group assessed according to IEC/TR 62778 .....:	RG2 (KDT1A10N33DBS + KPRXX05XXXXBS) (KFC4A40D32ABS + KPRXX05XXXXBS) (KBLPA04D39ABS + KPRXX05XXXXBS)	—
	Luminaires with E_{thr} :		P
	a) Fixed luminaires		P
	- distance x m, borderline between RG1 and RG2 .. :	2m (KDT1A10N33DBS + KPRXX05XXXXBS) 1,2m (KFC4A40D32ABS + KPRXX05XXXXBS) 0,25m (KBLPA04D39ABS + KPRXX05XXXXBS)	P
	- marking and instruction according 3.2.23		P
	b) Portable and handheld luminaires		N/A
	- marking according 3.2.23 if RG1 exceeded at 200 mm according to IEC/TR 62778		N/A
	Portable luminaires for children IEC 60598-2-10 and Mains socket outlet nightlights IEC 60598-2-12 not exceed RG1 at 200 mm according to IEC/62778		N/A
1.7 (4.25)	**Mechanical hazard**		**P**
	No sharp point or edges		P
1.7 (4.26)	**Short-circuit protection**		**N/A**
1.7 (4.26.1)	Adequate means of uninsulated accessible SELV / PELV parts		N/A
1.7 (4.26.2)	Short-circuit test with test chain according 4.26.3:		N/A
	Supply source ES1 PSE		N/A
	Test chain not melt through		N/A
	Test sample not exceed values of Table 12.1 and 12.2		N/A
1.7 (4.27)	**Terminal blocks with integrated screwless protective earthing contacts**		**N/A**
	Test according Annex V		N/A
	Pull test of terminal fixing (20 N)		N/A
	After test, resistance < 0,05 Ω		N/A
	Pull test of mechanical connection (50 N)		N/A
	After test, resistance < 0,05 Ω		N/A
	Voltage drop test, resistance < 0,05 Ω		N/A
1.7 (4.28)	**Fixing of thermal sensing control**		**N/A**
	Not plug-in or easily replaceable type		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Reliably kept in position		N/A
	No adhesive fixing if UV radiations from a lamp can degrade the fixing		N/A
	Not outside the luminaire enclosure		N/A
	Test of adhesive fixing:		N/A
	Max. temperature on adhesive material (ºC) ..... :		—
	100 cycles between t min and t max		N/A
	Temperature sensing control still in position		N/A
1.7 (4.29)	**Luminaires with non-replaceable light source**		**N/A**
	Not possible to replace light source		N/A
	Live part not accessible after parts have been opened by hand or tools		N/A
1.7 (4.30)	**Luminaires with non-user replaceable light source**		**P**
	If protective cover provide protection against electric shock and marked with “caution, electric shock risk” symbol:		P
	At least one fixing means requiring use of tool		P
1.7 (4.31)	**Insulation between circuits**		**P**
	Circuits insulated from LV supply fulfil requirements according 4.31.1 – 4.31.3	EN 61347-1	P
	Controllable luminaires requiring same level of insulation for all components, the insulation between control terminals and LV supply fulfil requirements according 4.31.1 – 4.31.3	(LNERA28D3AWS + LNEXKSED150WS + LNEXKSUP150WS) (KDT1A10D33DBS + KPRXX05XXXXBS) (KFC4A40D32ABS + KPRXX05XXXXBS) (KBLPA04D39ABS + KPRXX05XXXXBS)	P
1.7 (4.31.1)	SELV or PELV circuits		P
	Used SELV/PELV source	(KDT1A10D33DBS + KPRXX05XXXXBS) (KFC5AN34BBS + KPRXX05XXXXBS) (KFC4A40D32ABS + KPRXX05XXXXBS) (KTB2A25D32ABS + KPRXX05XXXXBS) (KBLPA04D39ABS + KPRXX05XXXXBS)	P
	Voltage ≤ ELV		P
	Insulating of SELV/PELV circuits from LV supply		P

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Clause	Requirement + Test	Result - Remark	Verdict
	Insulating of SELV/PELV circuits from other non SELV/PELV circuits		N/A
	Insulating of SELV/PELV circuits from FELV		N/A
	Insulating of SELV/PELV circuits from other SELV/PELV circuits		N/A
	SELV/PELV circuits insulated from accessible parts according Table X.1		P
	Plugs not able to make any electrical contact with socket-outlets of other voltage systems		N/A
	Socket outlets does not admit plugs of other voltage systems		N/A
	Plugs and socket-outlets does not have protective conductor contact		N/A
1.7 (4.31.2)	FELV circuits		P
	Used FELV source		P
	Voltage ≤ ELV		N/A
	Insulating of FELV circuits from LV supply		N/A
	FELV circuits insulated from accessible parts according Table X.1		N/A
	Plugs not able to make any electrical contact with socket-outlets of other voltage systems		N/A
	Socket outlets does not admit plugs of other voltage systems		N/A
	Socket-outlets does not have protective conductor contact		N/A
1.7 (4.31.3)	Other circuits		P
	Other circuits insulated from accessible parts according Table X.1		P
	Class II construction with equipotential bonding for protection against indirect contacts with live parts:		N/A
	- conductive parts are connected together		N/A
	- test according 7.2.3		N/A
	- conductive part not cause an electric shock in case of an insulation fault		N/A
	- equipotential bonding in master/slave applications		N/A
	- master luminaire provided with terminal for accessible conductive parts of slave luminaires		N/A
	- slave luminaire constructed as class I		N/A
1.7 (4.32)	**Overvoltage protective devices**		**N/A**

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Clause	Requirement + Test	Result - Remark	Verdict
	Comply with IEC 61643-11		N/A
	External to controlgear and connected to earth:		N/A
	- only in fixed luminaires		N/A
	- only connected to protective earth		N/A
1.6 (4.33)	**Luminaire powered via information technology communication cabling**		**N/A**
	Requirements for Class III luminaire		N/A
	Rated voltage within the range of ES1 and does not exceed maximum voltage of used connector		N/A
	Luminaire does not create any hazard from overvoltage	(see Annex 2)	N/A
1.6 (4.34)	**Electromagnetic fields (EMF)**		**P**
	No harmful electromagnetic fields	According to IEC/EN 62493:2015 clause 4.2.2 EUT is deemed to comply without testing.	P
1.6 (4.35)	**Protection against moving fan blades**		**N/A**
	Test with a standard test finger		N/A
	Test with test probe acc. to Figure 13 (IEC 61032) for portable luminaire		N/A
	Blades rounded with radius ≥ 0.5 mm and:		N/A
	-hardness less than D60 Shore		N/A
	-peripheral speed less than 15 m/s		N/A
	-input power of fan □ 2 W at rated voltage		N/A
1.6 (4.36)	**Track-mounted luminaires**		N/A
	Test in accordance with Annex A of IEC60570:2003/AMD2:2019		N/A

1.8 (11)	**CREEPAGE DISTANCES AND CLEARANCES**		**P**
1.8 (11.2.1)	Impulse withstand category (Normal category II)	Category II ☒ Category III ☐	—
	Category III according Annex U		N/A
	Protected against pollution, reduced creepage and clearance according Annex P of IEC 61347-1		N/A
1.8 (11.2.2)	Creepage distances for frequency up to 30 kHz	See Test Table 1.7 (11.2) I	P
	Creepage distances for frequency over 30 kHz:		N/A
	- Controlgear marked with $\hat{U}_{OUT}$ and f_{UOUT} according IEC 61347-1, clause 7.1, item w	See Test Table 1.7 (11.2) II	N/A
	- Requirements according IEC 60664-4 for controlgear not covered by IEC 61347	See Test Table 1.7 (11.2) II	N/A
1.8 (11.2.3)	Clearances for frequency up to 30 kHz	See Test Table 1.7 (11.2) I	P

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Clause	Requirement + Test	Result - Remark	Verdict
	Clearances distances for frequency over 30 kHz:		N/A
	- Controlgear marked with U_P	See Test Table 1.7 (11.2) II	N/A
	- Requirements according IEC 60664-4 for controlgear not covered by IEC 61347	See Test Table 1.7 (11.2) II	N/A
1.9 (7)	**PROVISION FOR EARTHING**		**P**
1.9 (7.2.1 + 7.2.3)	Accessible metal parts		P
	Metal parts in contact with supporting surface		P
	Resistance < 0,5 Ω..... :	0,08Ω	P
	Self-tapping screws used		P
	Thread-forming screws		P
	Thread-forming screw used in a grove		N/A
	Protective earth makes contact first		N/A
	Terminal blocks with integrated screwless protective earthing contacts tested according Annex V		N/A
	Protective earthing of the luminaire not via built-in control gear		P
1.9 (7.2.2 + 7.2.3)	Protective earth continuity in joints, etc.		P
1.9 (7.2.4)	Locking of clamping means		P
	Compliance with 4.7.3		P
1.9 (7.2.5)	Protective earth terminal integral part of connector socket		N/A
1.9 (7.2.6)	Protective earth terminal adjacent to mains terminals		P
1.9 (7.2.7)	Electrolytic corrosion of the protective earth terminal		N/A
1.9 (7.2.8)	Material of protective earth terminal		P
	Contact surface bare metal		P
1.9 (7.2.10)	Class II luminaire for looping-in		N/A
	Double or reinforced insulation to functional earth		N/A
1.9 (7.2.11)	Protective earthing core coloured green-yellow		P
	Length of earth conductor		P
1.9 (7.2.12)	PELV circuit connected to protective earth for functional purpose		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
1.10 (14)	**SCREW TERMINALS**		**P**
	Separately approved; component list	(see Annex 1)	N/A
	Part of the luminaire	(see Annex 3)	P
1.10 (15)	**SCREWLESS TERMINALS AND ELECTRICAL CONNECTIONS**		**P**
	Separately approved; component list..... :	(see Annex 1)	P
	Part of the luminaire ..... :	(see Annex 4)	N/A
1.11 (5)	**EXTERNAL AND INTERNAL WIRING**		**P**
1.11 (5.2)	**Supply connection and external wiring**		**P**
1.11 (5.2.1)	Means of connection ..... :	Terminal block	P
	Outdoor luminaire has not PVC insulated external wiring if not Class III or SELV/PELV circuits ≤ 25 V AC/60 V DC/25 V peak interrupted DC voltage with frequency 10Hz -200 Hz or protected from outdoor environment		N/A
1.11 (5.2.2)	Type of cable ..... :		N/A
	Nominal cross-sectional area (mm²) ..... :		N/A
	Cables equal to IEC 60227 or IEC 60245		N/A
1.11 (5.2.3)	Type of attachment, X, Y or Z		N/A
1.11 (5.2.5)	Type Z not connected to screws		N/A
1.11 (5.2.6)	Cable entries:		P
	- suitable for introduction		P
	- adequate degree of protection		P
1.11 (5.2.7)	Cable entries through rigid material have rounded edges		P
1.11 (5.2.8)	Insulating bushings:		P
	- suitably fixed		P
	- material in bushings		P
	- material not likely to deteriorate		P
	- tubes or guards made of insulating material		P
1.11 (5.2.9)	Locking of screwed bushings		N/A
1.11 (5.2.10)	Cord anchorage:		N/A
	- covering protected from abrasion		N/A
	- clear how to be effective		N/A
	- no mechanical or thermal stress		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- no tying of cables into knots etc.		N/A
	- insulating material or lining		N/A
1.11 (5.2.10.1)	Cord anchorage for type X attachment:		N/A
	a) at least one part fixed		N/A
	b) types of cable		N/A
	c) no damaging of the cable		N/A
	d) whole cable can be mounted		N/A
	e) no touching of clamping screws		N/A
	f) metal screw not directly on cable		N/A
	g) replacement without special tool		N/A
	Glands not used as anchorage		N/A
	Labyrinth type anchorages		N/A
1.11 (5.2.10.2)	Adequate cord anchorage for type Y and type Z attachment		N/A
1.11 (5.2.10.3)	Tests:		N/A
	- impossible to push cable; unsafe		N/A
	- pull test: 25 times; pull (N) ..... :		N/A
	- torque test: torque (Nm)..... :		N/A
	- displacement ≤ 2 mm		N/A
	- no movement of conductors		N/A
	- no damage of cable or cord		N/A
	- function independent of electrical connection		N/A
1.11 (5.2.10.4)	Luminaire with/designed for use with supply cord with maximum current of 2A:		N/A
	- Ordinary Class III luminaire supplied with SELV ≤25V RMS/60V DC		N/A
	- Ordinary Class III luminaire supplied with PELV ≤12V RMS/30V DC		N/A
	- Other than ordinary Class III luminaire supplied with voltage ≤12V RMS/30V DC		N/A
	Pull test of 30N		N/A
1.11 (5.2.11)	External wiring passing into luminaire		P
1.11 (5.2.12)	Looping-in terminals		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
1.11 (5.2.13)	Wire ends not tinned		N/A
	Wire ends tinned: no cold flow		N/A
1.11 (5.2.14)	Mains plug same protection		N/A
	Class III luminaire plug		N/A
	No unsafe compatibility		N/A
1.11 (5.2.15)	Connectors for Class III luminaires (IEC 60603 or IEC 62680)		N/A
1.11 (5.2.16)	Appliance inlets (IEC 60320)		N/A
	Installation couplers (IEC 61535)		N/A
	Appliance inlet or connector systems (IEC 61984)		N/A
1.11 (5.2.17)	No standardized interconnecting cables properly assembled		N/A
1.11 (5.2.18)	Used plug in accordance with		N/A
	- IEC 60083		N/A
	- other standard		N/A
1.11 (5.3)	**Internal wiring**		**P**
1.11 (5.3.1)	Internal wiring of suitable size and type		P
	Through wiring		N/A
	- not delivered/ mounting instruction		N/A
	- factory assembled		N/A
	- socket outlet loaded (A) ..... :		N/A
	- temperatures ..... :	(see Annex 2)	N/A
	Green-yellow for protective earth only		P
1.11 (5.3.1.1)	Internal wiring connected directly to fixed wiring		P
	Cross-sectional area (mm²)..... :	0,75mm^2	P
	Insulation thickness (mm) ..... :	0,7	P
	Extra insulation added where necessary		N/A
1.11 (5.3.1.2)	Internal wiring connected to fixed wiring via internal current-limiting device		P
	Cross-sectional area (mm²)..... :	0,75mm^2	P
1.11 (5.3.1.3)	Double or reinforced insulation for class II		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
1.11 (5.3.1.4)	Conductors without insulation		N/A
1.11 (5.3.1.5)	SELV/PELV current-carrying parts		N/A
1.11 (5.3.1.6)	Insulation thickness other than PVC or rubber		N/A
1.11 (5.3.2)	Sharp edges etc.		P
	No moving parts of switches etc.		N/A
	Joints, raising/lowering devices		N/A
	Telescopic tubes etc.		N/A
	No twisting over 360º		P
1.11 (5.3.3)	Insulating bushings:		N/A
	- suitable fixed		N/A
	- material in bushings		N/A
	- material not likely to deteriorate		N/A
	- cables with protective sheath		N/A
1.11 (5.3.4)	Joints and junctions effectively insulated		N/A
1.11 (5.3.5)	Strain on internal wiring		N/A
1.11 (5.3.6)	Wire carriers		N/A
1.11 (5.3.7)	Wire ends not tinned		N/A
	Wire ends tinned: no cold flow		N/A
1.11 (5.4)	**Test to determine suitability of conductors having a reduced cross-sectional area**		**P**
	Under test the temperature of the luminaire wiring insulation not exceed the limits stated in Table 12.2	(see Annex 2)	P
	No damage to luminaire wiring after test		P

1.12 (8)	**PROTECTION AGAINST ELECTRIC SHOCK**		**P**
1.12 (8.2.1)	Live parts not accessible		P
	Basic insulated parts not used on the outer surface without appropriate protection		P
	Basic insulated parts not accessible with standard test finger on portable, settable and adjustable luminaires		N/A
	Basic insulated parts not accessible with Ø 50 mm probe from outside, other types of luminaires		P

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Clause	Requirement + Test	Result - Remark	Verdict
	Lamp and starter holders in portable and adjustable luminaires comply with double or reinforced insulation requirements		N/A
	Basic insulation only accessible under lamp or starter replacement		N/A
	Protection in any position		P
	Double-ended tungsten filament lamp		N/A
	Insulation lacquer not reliable		N/A
	Double-ended high-pressure discharge lamp		N/A
	Relevant warning according to 3.2.18 fitted to the luminaire		P
1.12 (8.2.2)	Portable luminaire adjusted in most unfavourable position		N/A
1.12 (8.2.3.a)	Class II luminaire:		N/A
	- basic insulated metal parts not accessible during starter or lamp replacement		N/A
	- basic insulation not accessible other than during starter or lamp replacement		N/A
	- glass protective shields not used as supplementary insulation		N/A
1.12 (8.2.3.b)	BC lamp holder of metal in class I luminaires shall be connected to protective earth		N/A
1.12 (8.2.3.c)	SELV circuits with exposed current carrying parts:		N/A
	Ordinary luminaire:		N/A
	- voltage under load/ no-load AC (V)..... :		N/A
	- voltage under load/ no-load DC (V)……...:		N/A
	- interrupted DC voltage (V) ……..:		N/A
	- touch current if applicable (mA) ..... :		N/A
	One conductive part insulated if required		N/A
	Other than ordinary luminaire:		N/A
	- voltage under load/ no-load AC (V)..... :		N/A
	- voltage under load/ no-load DC (V)……...:		N/A
	- interrupted DC voltage (V) ……..:		N/A
	Class III luminaire only for connection to SELV		N/A
	Class III luminaire not provided with means for protective earthing		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
1.12 (8.2.3.d)	PELV circuits with exposed current carrying parts:		N/A
	Ordinary luminaire:		N/A
	- voltage under load/ no-load AC (V)..... :		N/A
	- voltage under load/ no-load DC (V)……...:		N/A
	Other than ordinary luminaire:		N/A
	- voltage under load/ no-load AC (V)..... :		N/A
	- voltage under load/ no-load DC (V)……...:		N/A
	One pole insulated if required		N/A
1.12 (8.2.4)	Portable luminaire has protection independent of supporting surface		N/A
1.12 (8.2.5)	Compliance with the standard test finger or relevant probe		P
1.12 (8.2.6)	Covers reliably secured		P
1.12 (8.2.7)	Luminaire other than below with capacitor ≥ 0,5 µF not exceed 50 V 1 min after disconnection		N/A
	Portable luminaire with capacitor ≥ 0,1 µF (0.25) not exceed 34 V 1 s after disconnection		N/A
	Other luminaires with capacitor ≥ 0,1 µF (0.25) with plug and track adaptors not exceed 60 V 5 s after disconnection		N/A
1.13 (12)	**ENDURANCE TEST AND THERMAL TEST**		**P**
1.13 (-)	If IP > IP 20 relevant test of (12.4), (12.5), (12.6) and (12.7) after (9.2) before (9.3) as specified in 1.14		—
1.13 (12.2)	**Selection of lamps and ballasts**		—
	Lamp used according Annex B	(Lamp used see Annex 2)	—
	Control gear if separate and not supplied	(Control gear used see Annex 2)	—
1.13 (12.3)	**Endurance test**		**P**
	a) mounting-position ..... :	(according to instructions)	—
	b) test temperature (ºC)..... :	35 = 25 + 10	—
	c) total duration (h) ..... :	240	—
	d) supply voltage (V) ..... :	264V = 240V x 1,1	—
	d) if not equipped with control gear, constant voltage/current (V) or (A) ..... :	--	—
1.13 (12.3.1d)	d) Class III luminaires powered via information technology communication cable:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- voltage under normal operation (V)……...:	--	—
	- voltage under abnormal operation (V)……..:	--	—
	e) luminaire ceases to operate	Luminaire works	—
	f) luminaire with constant light output function		N/A
1.13 (12.3.2)	After endurance test:		P
	- no part unserviceable		P
	- luminaire not unsafe		P
	- no damage to track system		N/A
	- marking legible		P
	- no cracks, deformation etc.		P
1.13 (12.4)	**Thermal test (normal operation)**	(see Annex 2)	**P**
1.13 (12.5)	**Thermal test (abnormal operation)**	(see Annex 2)	**N/A**
1.13 (12.6)	**Thermal test (failed lamp control gear condition):**		**N/A**
1.13 (12.6.1)	Through wiring or looping-in wiring loaded by a current of (A) ..... :		—
	- case of abnormal conditions ..... :		—
	- electronic lamp control gear		N/A
	- measured winding temperature (ºC): at 1,1 Un .... :		—
	- measured mounting surface temperature (ºC) at 1,1 Un ..... :		N/A
	- calculated mounting surface temperature (ºC) ..... :		N/A
	- track-mounted luminaires		N/A
1.13 (12.6.2)	Temperature sensing control		N/A
	- case of abnormal conditions ..... :		—
	- thermal link		N/A
	- manual reset cut-out		N/A
	- auto reset cut-out		N/A
	- measured mounting surface temperature (ºC) ..... :		N/A
	- track-mounted luminaires		N/A
1.13 (12.7)	**Thermal test (failed lamp control gear in plastic luminaires):**		**N/A**
1.13 (12.7.1)	Luminaire without temperature sensing control		N/A
1.13 (12.7.1.1)	Luminaire with fluorescent lamp ≤ 70W		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Test method 12.7.1.1 or Annex W ..... :		—
	Test according to 12.7.1.1:		N/A
	- case of abnormal conditions ..... :		—
	- Ballast failure at supply voltage (V) ..... :		—
	- Components retained in place after the test		N/A
	- Test with standard test finger after the test		N/A
	Test according to Annex W:		N/A
	- case of abnormal conditions ..... :		—
	- measured winding temperature (ºC): at 1,1 Un ..... :		—
	- measured temperature of fixing point/exposed part (ºC): at 1,1 Un..... :		—
	- calculated temperature of fixing point/exposed part (ºC) ..... :		—
	Ball-pressure test .....:	See Test Table 1.15 (13.2.1)	N/A
1.13 (12.7.1.2)	Luminaire with discharge lamp, fluorescent lamp > 70W, transformer > 10 VA		N/A
	- case of abnormal conditions ..... :		—
	- measured winding temperature (ºC): at 1,1 Un ..... :		—
	- measured temperature of fixing point/exposed part (ºC): at 1,1 Un..... :		—
	- calculated temperature of fixing point/exposed part (ºC) ..... :		—
	Ball-pressure test ..... :	See Test Table 1.15 (13.2.1)	N/A
1.13 (12.7.1.3)	Luminaire with short circuit proof transformers ≤ 10 VA		N/A
	- case of abnormal conditions ..... :		—
	- Components retained in place after the test		N/A
	- Test with standard test finger after the test		N/A
1.13 (12.7.2)	Luminaire with temperature sensing control		N/A
	- thermal link..... :	Yes ☐ No ☐	—
	- manual reset cut-out ..... :	Yes ☐ No ☐	—
	- auto reset cut-out ..... :	Yes ☐ No ☐	—
	- case of abnormal conditions ..... :		—
	- highest measured temperature of fixing point/ exposed part (ºC): ..... :		—
	Ball-pressure test: ..... :	See Test Table 1.15 (13.2.1)	N/A

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Clause	Requirement + Test	Result - Remark	Verdict

1.14 (9)	**RESISTANCE TO DUST AND MOISTURE**		**P**
1.14 (-)	If IP > IP 20 the order of tests as specified in clause 1.12		N/A
1.14 (9.2)	Tests for ingress of dust, solid objects and moisture:		P
	- classification according to IP..... :	IP20	—
	- mounting position during test..... :	(according to instructions)	—
	- fixing screws tightened; torque (Nm) ..... :	2/3 torque	—
	- tests according to clauses..... :	9.2.0	—
	- electric strength test afterwards		P
	a) no deposit in dust-proof luminaire		N/A
	b) no talcum in dust-tight luminaire		N/A
	c) no trace of water on current-carrying parts or on insulation where it could become a hazard		N/A
	c.1) For luminaires without drain holes – no water entry		N/A
	c.2) For luminaires with drain holes – no hazardous water entry		N/A
	d) no water in watertight, pressure watertight, high pressure and temperature water jet-proof or high pressure and cold water jet-proof luminaire		N/A
	e) no contact with live parts (IP 2X)		P
	e) no entry into enclosure (IP 3X and IP 4X)		N/A
	e) no contact with live parts through drain holes and ventilation slots (IP3X and IP4X)		N/A
	f) no trace of water on part of lamp requiring protection from splashing water		N/A
	g) no damage of protective shield or glass envelope		N/A
1.14 (9.3)	Humidity test 48 h	25ºC / 93%	P

1.15 (10)	**INSULATION RESISTANCE AND ELECTRIC STRENGTH**		**P**
1.15 (10.2.1)	Insulation resistance test		P
	Cable or cord covered by metal foil or replaced by a metal rod of mm Ø ..... :		—
	Insulation resistance (MΩ):		N/A
	SELV/PELV:		P
	- between current-carrying parts of different polarity :		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- between current-carrying parts and mounting surface..... :	>1,3MΩ (KDT1A10D33DBS + KPRXX05XXXXBS) (KDT1A10N33DBS + KPRXX05XXXXBS) (KFC5AN34BBS + KPRXX05XXXXBS) (KFC4A40D32ABS + KPRXX05XXXXBS) (KFC2A25N32ABS + KPRXX05XXXXBS) (KTB2A25D32ABS + KPRXX05XXXXBS), (KBLPA04D39ABS + KPRXX05XXXXBS), (KBLUA04D39ABS + KPRXX05XXXXBS)	P
	- between current-carrying parts and metal parts of the luminaire..... :	>1,3MΩ (KDT1A10D33DBS + KPRXX05XXXXBS) (KDT1A10N33DBS + KPRXX05XXXXBS) (KFC5AN34BBS + KPRXX05XXXXBS) (KFC4A40D32ABS + KPRXX05XXXXBS) (KFC2A25N32ABS + KPRXX05XXXXBS) (KTB2A25D32ABS + KPRXX05XXXXBS), (KBLPA04D39ABS + KPRXX05XXXXBS), (KBLUA04D39ABS + KPRXX05XXXXBS)	P
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts..... :		N/A
	- Insulation bushings as described in Section 5 ..... :		N/A
	Other than SELV/PELV:		P
	- between live parts of different polarity ..... :		N/A
	- between live parts and mounting surface ..... :	>2,6MΩ (LNERA28D3AWS + LNEXKSED150WS + LNEXKSUP150WS) (LNERA28N3AWS) (LNERA22D3AWS + LNEXKSED150WS + LNEXKSUP150WS) (KLR1A10D39ABS + KPRXX10XXXXBS)	P

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Clause	Requirement + Test	Result - Remark	Verdict
	- between live parts and metal parts ..... :	>2,6MΩ (LNERA28D3AWS + LNEXKSED150WS + LNEXKSUP150WS) (LNERA28N3AWS) (LNERA22D3AWS + LNEXKSED150WS + LNEXKSUP150WS) (KLR1A10D39ABS + KPRXX10XXXXBS)	P
	- between live parts of different polarity through action of a switch..... :		N/A
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts..... :		N/A
	- Insulation bushings as described in Section 5 .....:		N/A
1.15 (10.2.2)	Electric strength test		P
	Dummy lamp		N/A
	Luminaires with ignitors after 24 h test		N/A
	Luminaires with manual ignitors		N/A
	Test voltage (V):		N/A
	SELV/PELV:		P
	- between current-carrying parts of different polarity :		N/A
	- between current-carrying parts and mounting surface..... :	500V (KDT1A10D33DBS + KPRXX05XXXXBS) (KDT1A10N33DBS + KPRXX05XXXXBS) (KFC5AN34BBS + KPRXX05XXXXBS) (KFC4A40D32ABS + KPRXX05XXXXBS) (KFC2A25N32ABS + KPRXX05XXXXBS) (KTB2A25D32ABS + KPRXX05XXXXBS), (KBLPA04D39ABS + KPRXX05XXXXBS), (KBLUA04D39ABS + KPRXX05XXXXBS)	P

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Clause	Requirement + Test	Result - Remark	Verdict
	- between current-carrying parts and metal parts of the luminaire..... :	500V (KDT1A10D33DBS + KPRXX05XXXXBS) (KDT1A10N33DBS + KPRXX05XXXXBS) (KFC5AN34BBS + KPRXX05XXXXBS) (KFC4A40D32ABS + KPRXX05XXXXBS) (KFC2A25N32ABS + KPRXX05XXXXBS) (KTB2A25D32ABS + KPRXX05XXXXBS), (KBLPA04D39ABS + KPRXX05XXXXBS), (KBLUA04D39ABS + KPRXX05XXXXBS)	P
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts..... :		N/A
	- Insulation bushings as described in Section 5 ..... :		N/A
	Other than SELV/PELV:		P
	- between live parts of different polarity ..... :		N/A
	- between live parts and mounting surface ..... :	1480V (LNERA28D3AWS + LNEXKSED150WS + LNEXKSUP150WS) (LNERA28N3AWS) (LNERA22D3AWS + LNEXKSED150WS + LNEXKSUP150WS) (KLR1A10D39ABS + KPRXX10XXXXBS)	P
	- between live parts and metal parts ..... :	1480V (LNERA28D3AWS + LNEXKSED150WS + LNEXKSUP150WS) (LNERA28N3AWS) (LNERA22D3AWS + LNEXKSED150WS + LNEXKSUP150WS) (KLR1A10D39ABS + KPRXX10XXXXBS)	P
	- between live parts of different polarity through action of a switch..... :		N/A
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts..... :		N/A
	- Insulation bushings as described in Section 5 ..... :		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
1.15 (10.3)	Touch current (mA).....:	0,03 (LNERA28D3AWS + LNEXKSED150WS + LNEXKSUP150WS) 0,01 (KFC4A40D32ABS + KPRXX10XXXXBS) 0,02 (KDT1A10D33DBS + KPRXX10XXXXBS) (KTB2A25D32ABS + KPRXX10XXXXBS) (KBLPA04D39ABS + KPRXX10XXXXBS)	P
1.16 (13)	**RESISTANCE TO HEAT, FIRE AND TRACKING**		**P**
1.16 (13.2.1)	Ball-pressure test .....:	See Test Table 1.16 (13.2.1)	N/A
1.16 (13.3.1)	Needle-flame test (10 s).....:	See Test Table 1.16 (13.3.1)	N/A
1.16 (13.3.2)	Glow-wire test (650ºC) .....:	See Test Table 1.16 (13.3.2)	P
1.16 (13.4)	Proof tracking test (IEC 60112).....:	See Test Table 1.16 (13.4)	N/A

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Clause	Requirement + Test	Result - Remark	Verdict

1.8 (11.2)	**TABLE I: Creepage distances and clearances**							**P**
	Minimum distances (mm) for a.c. up to 30 kHz sinusoidal voltages							**P**
	Applicable part of IEC 60598-1 Table 11.1.A*, 11.1.B* and 11.2*							**P**
	Insulation type **	**Measured clearance**	**Required**		**Measured creepage**	**Required**		
			clearance	***Table**		**creepage**	***Table**	
Distance 1:	B	8,1	1,5	11.1.B	8,3	2,4	11.1.A	
Working voltage (V) ..... :					240V AC			—
PTI ..... :					< 600 ☒ ≥ 600 ☐			—
Pulse voltage or U_P if applicable (kV) ..... :					N/A			—
Supplementary information: Between terminal block and conductive parts (LNERA28D3AWS + LNEXKSED150WS + LNEXKSUP150WS)								
Distance 2:	B	4,8	1,5	11.1.B	4,9	2,4	11.1.A	
Working voltage (V) ..... :					240V AC			—
PTI ..... :					< 600 ☒ ≥ 600 ☐			—
Pulse voltage or U_P if applicable (kV) ..... :					N/A			—
Supplementary information: Between AC connector and conductive parts (LNERA28D3AWS + LNEXKSED150WS + LNEXKSUP150WS)								
Distance 3:	B	4	1,5	11.1.B	4,1	1,3	11.1.A	
Working voltage (V) ..... :					71V DC			—
PTI ..... :					< 600 ☒ ≥ 600 ☐			—
Pulse voltage or U_P if applicable (kV) ..... :					N/A			—
Supplementary information: Between LED module and conductive parts (LNERA28D3AWS + LNEXKSED150WS + LNEXKSUP150WS)								
Distance 4:	B	7,9	1,5	11.1.B	8,7	2,4	11.1.A	
Working voltage (V) ..... :					240V AC			—
PTI ..... :					< 600 ☒ ≥ 600 ☐			—
Pulse voltage or U_P if applicable (kV) ..... :					N/A			—
Supplementary information: Between terminal block and conductive parts (KDT1A10D33DBS + KPRXX05XXXXBS)								
Distance 5:	B	4,9	1,5	11.1.B	5,1	2,4	11.1.A	
Working voltage (V) ..... :					240V AC			—
PTI ..... :					< 600 ☒ ≥ 600 ☐			—
Pulse voltage or U_P if applicable (kV) ..... :					N/A			—
Supplementary information: Between AC connector and conductive parts (KDT1A10D33DBS + KPRXX05XXXXBS)								

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Clause	Requirement + Test	Result - Remark	Verdict

Distance 6:	B	--	N/A	11.1.B	--	N/A	11.1.A
Working voltage (V) ..... :					29,3V DC		—
PTI ..... :					< 600 ☒ ≥ 600 ☐		—
Pulse voltage or U_P if applicable (kV) ..... :					N/A		—
Supplementary information: Between LED module and conductive parts. SELV convertor (KDT1A10D33DBS + KPRXX05XXXXBS)							
Distance 7:	B	8,0	1,5	11.1.B	8,2	2,4	11.1.A
Working voltage (V) ..... :					240V AC		—
PTI ..... :					< 600 ☒ ≥ 600 ☐		—
Pulse voltage or U_P if applicable (kV) ..... :					N/A		—
Supplementary information: Between terminal block and conductive parts (KFC4A40D32ABS + KPRXX05XXXXBS)							
Distance 8:	B	4,8	1,5	11.1.B	4,9	2,4	11.1.A
Working voltage (V) ..... :					240V AC		—
PTI ..... :					< 600 ☒ ≥ 600 ☐		—
Pulse voltage or U_P if applicable (kV) ..... :					N/A		—
Supplementary information: Between AC connector and conductive parts (KFC4A40D32ABS + KPRXX05XXXXBS)							
Distance 9:	B	--	N/A	11.1.B	--	N/A	11.1.A
Working voltage (V) ..... :					30,1V DC		—
PTI ..... :					< 600 ☒ ≥ 600 ☐		—
Pulse voltage or U_P if applicable (kV) ..... :					N/A		—
Supplementary information: Between LED module and conductive parts. SELV convertor (KFC4A40D32ABS + KPRXX05XXXXBS)							
Distance 10:	B	8,1	1,5	11.1.B	8,3	2,4	11.1.A
Working voltage (V) ..... :					240V AC		—
PTI ..... :					< 600 ☒ ≥ 600 ☐		—
Pulse voltage or U_P if applicable (kV) ..... :					N/A		—
Supplementary information: Between terminal block and conductive parts (KTB2A25D32ABS + KPRXX05XXXXBS)							
Distance 11:	B	4,8	1,5	11.1.B	4,9	2,4	11.1.A
Working voltage (V) ..... :					240V AC		—
PTI ..... :					< 600 ☒ ≥ 600 ☐		—
Pulse voltage or U_P if applicable (kV) ..... :					N/A		—
Supplementary information: Between AC connector and conductive parts (KTB2A25D32ABS + KPRXX05XXXXBS)							

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Clause	Requirement + Test	Result - Remark	Verdict

Distance 12:	B	--	N/A	11.1.B	--	N/A	11.1.A
Working voltage (V) ..... :					34,1V DC		—
PTI ..... :					< 600 ☒ ≥ 600 ☐		—
Pulse voltage or U_P if applicable (kV) ..... :					N/A		—
Supplementary information: Between LED module and conductive parts. SELV convertor (KTB2A25D32ABS + KPRXX05XXXXBS)							
Distance 13:	B	8,0	1,5	11.1.B	8,3	2,4	11.1.A
Working voltage (V) ..... :					240V AC		—
PTI ..... :					< 600 ☒ ≥ 600 ☐		—
Pulse voltage or U_P if applicable (kV) ..... :					N/A		—
Supplementary information: Between terminal block and conductive parts (KBLPA04D39ABS + KPRXX05XXXXBS)							
Distance 14:	B	4,7	1,5	11.1.B	4,8	2,4	11.1.A
Working voltage (V) ..... :					240V AC		—
PTI ..... :					< 600 ☒ ≥ 600 ☐		—
Pulse voltage or U_P if applicable (kV) ..... :					N/A		—
Supplementary information: Between AC connector and conductive parts (KBLPA04D39ABS + KPRXX05XXXXBS)							
Distance 15:	B	--	N/A	11.1.B	--	N/A	11.1.A
Working voltage (V) ..... :					32,1V DC		—
PTI ..... :					< 600 ☒ ≥ 600 ☐		—
Pulse voltage or U_P if applicable (kV) ..... :					N/A		—
Supplementary information: Between LED module and conductive parts. SELV convertor (KBLPA04D39ABS + KPRXX05XXXXBS)							

** Insulation type: B – Basic; S – Supplementary; R – Reinforced. See also IEC 60598-1 Annex M.

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict

1.8 (11.2)	TABLE II: Creepage distances and clearances							N/A
Minimum distances (mm) for a.c. higher than 30 kHz sinusoidal voltages								
Applicable part of IEC 61347-1 Table 7 and 8* or IEC 60664-4 Table 1 and 2								
Distances	**Insulation type ****	**Measured clearance**	**Required**		**Measured creepage**	**Required**		
			clearance	***Table**		**creepage**	***Table**	
Distance 1:								
Working voltage (V) .....:								—
Frequency if applicable (kHz) .....:								—
PTI .....:					< 600 ☐ ≥ 600 ☐			—
Peak value of the working voltage $\hat{U}_{out}$ if applicable (kV) .....:								—
Supplementary information:								
Distance 2:								
Working voltage (V) .....:								—
Frequency if applicable (kHz) .....:								—
PTI .....:					< 600 ☐ ≥ 600 ☐			—
Peak value of the working voltage $\hat{U}_{out}$ if applicable (kV) .....:								—
Supplementary information:								
Distance 3:								
Working voltage (V) .....:								—
Frequency if applicable (kHz) .....:								—
PTI .....:					< 600 ☐ ≥ 600 ☐			—
Peak value of the working voltage $\hat{U}_{out}$ if applicable (kV) .....:								—
Supplementary information:								

** Insulation type: B – Basic; S – Supplementary; R – Reinforced.

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Clause	Requirement + Test	Result - Remark	Verdict

1.16 (13.2.1)	TABLE: Ball Pressure Test of Thermoplastics		N/A
Allowed impression diameter (mm) ..... :		2	—

Object/ Part No./ Material	Manufacturer/ trademark	Test temperature (ºC)	Impression diameter (mm)

Supplementary information:

1.16 (13.3.1)	TABLE: Needle-flame test				N/A
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (ta); (s)	Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict

Supplementary information:

1.16 (13.3.2)	TABLE: Resistance to heat and fire - Glow wire tests						P
Object/ Part No./ Material	**Manufacturer/ trademark**	**Glow wire test (°C)**					**Verdict**
		650		**750**		**850**	
		te	**ti**	**te**	**ti**		
Diffuser (LNER A 28 D 3 A WS + LNEXKSE D 150 WS + LNEXKSUP 150 WS)	-	No burning	No burning	N/A	N/A	N/A	P
Lens (KDT1 A 10 D 3 3 D BS + KPRX X 05 X XXX BS)	-	No burning	No burning	N/A	N/A	N/A	P
Lens (KFC4 A 40 D 3 2 A BS + KPRX X 05 X XXX BS)	-	No burning	No burning	N/A	N/A	N/A	P
Lens (KTB2 A 25 D 3 2 A BS + KPRX X 05 X XXX BS)	-	No burning	No burning	N/A	N/A	N/A	P
Ignition of the specified layer placed underneath the test specimen (Yes/No)..... :							No
Supplementary information: -							

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Clause	Requirement + Test	Result - Remark	Verdict

1.16 (13.4)	TABLE: Proof tracking test				N/A
Test voltage PTI ..... :		175 V			—
Object/ Part No./ Material	Manufacturer/ trademark	Withstand 50 drops without failure on three places or on three specimens			Verdict
Supplementary information:					

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Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 1	TABLE: Critical components information[2]					—
Object / part No.	**Code**	**Manufacturer/ trademark**	**Type / model**	**Technical data**	**Standard**	**Mark(s) of conformity[1)]**
LED module	B	Vossloh	566773	42,4W. 700mA. 60,5V DC. RG1. tc 80ºC.	EN 62031	VDE (40047874)
LED module	B	Vossloh	570744	16,9W. 700mA. 24,1V DC. RG1. tc 80ºC.	EN 62031	VDE (40052799)
LED module	B	Vossloh	570736	8,4W. 700mA. 12,1V DC. RG1. tc 80ºC.	EN 62031	VDE (40052799)
LED module	B	Vossloh	DMS124	35,9V DC. 500mA. 18W. tc 110ºC. RG1.	EN 62031	VDE (40046013)
LED module	C	Bridgelux	BXKH-30G0500-A	36,8V DC. 3,1W. tc 105ºC. RG1.	IEC 60598-1 EN 62471	Tested with appliance CANDELTEC (IE210178)
LED	C	Samsung Electronics	LH351B	2,8V. 1,5A. RG2.	IEC 62471 IEC 60598-1	Samsung (15-04-01) Tested with appliance
LED	C	Cree	XHP50A-00-0000-0D0HG430G	12V DC. 3A. RG2.	UL 8750 EN 62471 IEC 60598-1	UL (E349212) Tested with appliance
PCB	C	Alanod	MIRO-SILVER 17 COM HPSP	12x12x1mm. 235W/(m·K) thermal conductivity.	IEC 60598-1	Tested with appliance
PCB	C	Cipsacircuits	PCB02.385	V-0	UL94 IEC 60598-1	UL (160716) Tested with appliance
PCB	C	Cipsacircuits	PCB02.381	V-0	UL94 IEC 60598-1	UL (160716) Tested with appliance
PCB	C	Cipsacircuits	PCB02.647	V-0	UL94 IEC 60598-1	UL (160716) Tested with appliance
PCB terminals	B	Wago	2060-452/998-404	130V. 9A. T105.	EN 60998-1 EN 60998-2-2	DEKRA (71-109040) Tested with appliance

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict

Convertor	B	Vossloh	186855	In: 220-240V AC. 50/60Hz. Out: 30-130V DC. 400-800mA. 12-85W. tc 70ºC.	EN 61347-1 EN 61347-2-13	VDE (40050333)
Convertor	B	Vossloh	187061	In: 120-240V AC. 50/60Hz. Out: 35-93V DC. 450mA.42W. tc 75ºC.	EN 61347-1 EN 61347-2-13	VDE (40050760)
Convertor	B	Vossloh	186853	In: 220-240V AC. 50/60Hz. Out: 30-70V DC max. 400-800mA. 12-40W. tc 70ºC.	EN 61347-1 EN 61347-2-13	VDE (40050333)
Convertor	B	Vossloh	187053	In: 220-240V AC. 50/60Hz. Out: 59V DC max. 250-700mA. 26W. tc 80ºC.	EN 61347-1 EN 61347-2-13	ENEC 05 (81-112360)
Convertor	B	Vossloh	186923	In: 220-240V AC. 50/60Hz. Out: 27-38V DC. 300mA. 12W. tc 75ºC.	EN 61347-1 EN 61347-2-13	ENEC 18 (HN 69290010)
Convertor	B	Vossloh	186852	In: 220-240V AC. 50/60Hz. Out: 30-120V DC. 100-400mA. 3-40W. tc 65ºC.	EN 61347-1 EN 61347-2-13	VDE (40050333)
Convertor	B	TCI	127573	In: 220-240V AC. 50/60Hz. Out: 44V DC max. 350-725mA. 32W. tc 85ºC.	EN 61347-1 EN 61347-2-13	DEKRA (81-119153)
Wire	B	Vercavi	H05V2-U	PVC. 300/500V. T90.	EN 50525-2-31	HAR (DAT950053 15)
Wire cord	B	Colosio	BV57T	300/500V. 5x0,75mm^2. FEP. T180. PVC. T90	CEI 20-20/1	IMQ (01SE00045)
Wire cord	B	Conductores Eléctricos Cemi	H03VV-F	2x0,22mm^2. PVC. 300/300V. T70.	EN 50525-2-11	EU Declaration for Conformity
Wire	B	Dong Guan Shen Pai Electric Wire & Cable	H05V-K	300/300V. 0,75mm^2. T70.	EN 50525-2-31	VDE (40053466)

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Clause	Requirement + Test	Result - Remark	Verdict

Wire	B	Colosio	FEP	300/500V. 0,25mm^2. T180.	DIN 5725	VDE (107602)
Wire	C	Dongguan Nistar Transmitting Technology	PVC	300V. T105.	UL 758 IEC 60598-1	UL (E214184) Tested with appliance
Wire	C	Xingda electronics wire & cable	1007	18AWG. T80. 300V. PVC.	UL758 IEC 60598-1	UL (E187208) Tested with appliance
Terminal block	B	Electro terminal	SKL 3	450V. 24A. T85.	EN 60998-2-2	VDE (40020823)
Terminal block	B	Electro terminal	SKL 5	450V. 24A. T85.	EN 60998-1 EN 60998-2-2	ENEC 11 (163-009)
Terminal block	B	BJB	46.412	450V. 24A. T85.	EN 60998-1 EN 60998-2-2	VDE (40020580)
Connection box	B	Steab	5637	5x1,5mm^2. 250V. 4A. T110.	EN 60598-1	INTERTEK (1224831)
Connection box	B	Arditi	145	250V. T90.	EN 60998-1 EN 60998-2-1	ENEC 03 (CA02.02393)
Connector	B	Zhejiang Hongxing Electrical	HX42000-3P	5A. 250V. T80.	EN 61984	TÜV SUD (B 079214 0001 Rev. 01)
Connector	B	Zhejiang Hongxing Electrical	HX42000-2P	5A. 250V. T80.	EN 61984	TÜV SUD (B 079214 0001 Rev. 01)

Supplementary information:

[1)] Provided evidence ensures the agreed level of compliance.

[2)] This information has been provided by the applicant

The codes above have the following meaning:

A - The component is replaceable with another one, also certified, with equivalent characteristics

B - The component is replaceable if authorised by the test house

C - Integrated component tested together with the appliance

D - Alternative component

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 2	**TABLE: Thermal tests of Section 12**		—
	Type reference ..... :	LNERA28D3AWS + LNEXKSED150WS + LNEXKSUP150WS	—
	Lamp used..... :	(see Annex 1)	—
	Lamp control gear used ..... :	(see Annex 1)	—
	Mounting position of luminaire ..... :	(according Instructions)	—
	Supply wattage (W) ..... :	54,0	—
	Supply current (A) ..... :	0,25	—
	Temperatures in test 1 - 4 below are corrected for ta (ºC) ..... :	25	—
	- abnormal operating mode ..... :	N/A	—
1.13 (12.4)	- test 1: rated voltage ..... :	240V = 240V x 1,0	—
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current ..... :	254,4V = 240 x 1,06	—
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage ..... :	N/A	—
	Through wiring or looping-in wiring loaded by a current of A during the test ..... :	N/A	—
1.13 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current or 130/150% of rated input voltage ..... :	N/A	—

Temperature measurements (ºC)

Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
Convertor 1 (tc)	25,0	40,0	-	-	70	-	-
Convertor 2 (tc)	25,0	40,9	-	-	70	-	-
LED module 1 (tc) (ref 570736)	25,0	42,3	-	-	80	-	-
LED module 2 (tc) (ref 570744)	25,0	43,1	-	-	80	-	-
LED module 3 (tc) (ref 570744)	25,0	43,3	-	-	80	-	-
LED module 4 (tc) (ref 570736)	25,0	42,0	-	-	80	-	-
LED module 5 (tc) (ref 570744)	25,0	40,0	-	-	80	-	-
LED module 6 (tc) (ref 570744)	25,0	41,9	-	-	80	-	-
Supply cable	25,0	-	32,7	-	90	-	-
Terminal block	25,0	-	32,9	-	85	-	-
AC connector	25,0	-	33,1	-	85	-	-

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Clause	Requirement + Test	Result - Remark	Verdict

LED module wire	25,0	-	37,8	-	80	-	-
Diffuser	25,0	-	35,8	-	80	-	-
Mounting surface	25,0	-	25,0	-	90	-	-
Illuminated object distance (10cm)	25,0	-	26,9	-	90	-	-
Supplementary information:							

	Type reference ..... :	LNERA28N3AWS	—
	Lamp used..... :	(see Annex 1)	—
	Lamp control gear used ..... :	(see Annex 1)	—
	Mounting position of luminaire ..... :	(according Instructions)	—
	Supply wattage (W) ..... :	54,1	—
	Supply current (A) ..... :	0,25	—
	Temperatures in test 1 - 4 below are corrected for ta (ºC) ..... :	25	—
	- abnormal operating mode ..... :	N/A	—
1.13 (12.4)	- test 1: rated voltage ..... :	240V = 240V x 1,0	—
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current ..... :	N/A	—
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage ..... :	N/A	—
	Through wiring or looping-in wiring loaded by a current of A during the test ..... :	N/A	—
1.13 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current or 130/150% of rated input voltage ..... :	N/A	—

Temperature measurements (ºC)

Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
Convertor 1 (tc)	25,0	42,9	-	-	75	-	-
Convertor 2 (tc)	25,0	44,1	-	-	75	-	-
LED module 1 (tc) (ref 570736)	25,0	43,9	-	-	80	-	-
LED module 2 (tc) (ref 570744)	25,0	44,9	-	-	80	-	-
LED module 3 (tc) (ref 570744)	25,0	44,1	-	-	80	-	-
LED module 4 (tc) (ref 570736)	25,0	42,8	-	-	80	-	-
LED module 5 (tc) (ref 570744)	25,0	44,5	-	-	80	-	-

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Clause	Requirement + Test	Result - Remark	Verdict

LED module 6 (tc) (ref 570744)	25,0	43,9	-	-	80	-	-
Supplementary information:							

	Type reference ..... :	LNERA22D3AWS + LNEXKSED150WS + LNEXKSUP150WS	—
	Lamp used..... :	(see Annex 1)	—
	Lamp control gear used ..... :	(see Annex 1)	—
	Mounting position of luminaire ..... :	(according Instructions)	—
	Supply wattage (W) ..... :	43,8	—
	Supply current (A) ..... :	0,21	—
	Temperatures in test 1 - 4 below are corrected for ta (ºC) ..... :	25	—
	- abnormal operating mode ..... :	N/A	—
1.13 (12.4)	- test 1: rated voltage ..... :	240V = 240V x 1,0	—
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current ..... :	N/A	—
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage ..... :	N/A	—
	Through wiring or looping-in wiring loaded by a current of A during the test ..... :	N/A	—
1.13 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current or 130/150% of rated input voltage ..... :	N/A	—

Temperature measurements (ºC)

Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
Convertor 1 (tc)	25,0	40,4	-	-	70	-	-
Convertor 2 (tc)	25,0	41,5	-	-	70	-	-
LED module 1 (tc) (ref 570736)	25,0	41,8	-	-	80	-	-
LED module 2 (tc) (ref 570736)	25,0	43,7	-	-	80	-	-
LED module 3 (tc) (ref 570744)	25,0	43,3	-	-	80	-	-
LED module 4 (tc) (ref 570736)	25,0	44,4	-	-	80	-	-
LED module 5 (tc) (ref 570736)	25,0	40,6	-	-	80	-	-
LED module 6 (tc) (ref 570744)	25,0	41,7	-	-	80	-	-
Supplementary information:							

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Clause	Requirement + Test	Result - Remark	Verdict

	Type reference ..... :	KDT1A10D33DBS + KPRXX05XXXXBS	—
	Lamp used..... :	(see Annex 1)	—
	Lamp control gear used ..... :	(see Annex 1)	—
	Mounting position of luminaire ..... :	(according Instructions)	—
	Supply wattage (W) ..... :	24,3	—
	Supply current (A) ..... :	0,11	—
	Temperatures in test 1 - 4 below are corrected for ta (ºC) ..... :	25	—
	- abnormal operating mode ..... :	N/A	—
1.13 (12.4)	- test 1: rated voltage ..... :	240V = 240V x 1,0	—
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current ..... :	254,4V = 240 x 1,06	—
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage ..... :	N/A	—
	Through wiring or looping-in wiring loaded by a current of A during the test ..... :	N/A	—
1.13 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current or 130/150% of rated input voltage ..... :	N/A	—

Temperature measurements (ºC)

Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
Convertor (tc)	25,0	61,8	-	-	80	-	-
LED module 1 (tc)	25,0	67,3	-	-	80	-	-
LED module 2 (tc)	25,0	66,5	-	-	80	-	-
Supply cable	25,0	-	31,4	-	90	-	-
AC connector	25,0	-	41,5	-	85	-	-
Terminal block	25,0	-	46,9	-	85	-	-
LED module wire	25,0	-	56,0	-	90	-	-
Mounting surface	25,0	-	38,3	-	90	-	-
Illuminated objects distance (10cm)	25,0	-	26,1	-	90	-	-

Supplementary information:

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Clause	Requirement + Test	Result - Remark	Verdict

	Type reference ..... :	KDT1A10N33DBS + KPRXX05XXXXBS	—
	Lamp used..... :	(see Annex 1)	—
	Lamp control gear used ..... :	(see Annex 1)	—
	Mounting position of luminaire ..... :	(according Instructions)	—
	Supply wattage (W) ..... :	23,6	—
	Supply current (A) ..... :	0,1	—
	Temperatures in test 1 - 4 below are corrected for ta (ºC) ..... :	25	—
	- abnormal operating mode ..... :	N/A	—
1.13 (12.4)	- test 1: rated voltage ..... :	240V = 240V x 1,0	—
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current ..... :	N/A	—
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage ..... :	N/A	—
	Through wiring or looping-in wiring loaded by a current of A during the test ..... :	N/A	—
1.13 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current or 130/150% of rated input voltage ..... :	N/A	—

Temperature measurements (ºC)

Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
Convertor (tc)	25,0	62,7	-	-	85	-	-
LED module 1 (tc)	25,0	66,2	-	-	80	-	-
LED module 2 (tc)	25,0	66,9	-	-	80	-	-
Supplementary information:							

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Clause	Requirement + Test	Result - Remark	Verdict

	Type reference ..... :	KFC5AN34BBS + KPRXX05XXXXBS	—
	Lamp used..... :	(see Annex 1)	—
	Lamp control gear used ..... :	(see Annex 1)	—
	Mounting position of luminaire ..... :	(according Instructions)	—
	Supply wattage (W) ..... :	13,9	—
	Supply current (A) ..... :	0,06	—
	Temperatures in test 1 - 4 below are corrected for ta (ºC) ..... :	25	—
	- abnormal operating mode ..... :	N/A	—
1.13 (12.4)	- test 1: rated voltage ..... :	240V = 240V x 1,0	—
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current ..... :	254,4V = 240 x 1,06	—
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage ..... :	N/A	—
	Through wiring or looping-in wiring loaded by a current of A during the test ..... :	N/A	—
1.13 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current or 130/150% of rated input voltage ..... :	N/A	—

Temperature measurements (ºC)

Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
Convertor (tc)	25,0	45,0	-	-	85	-	-
LED module (tc)	25,0	107,2	-	-	110	-	-
Supply cable	25,0	-	32,8	-	90	-	-
Wire DC	25,0	-	35,6	-	90	-	-
LED module wire	25,0	-	89,9	-	180	-	-
LED module wire (Clause 5.4 max output current 700mA)	25,0	-	25,3	-	180	-	-
LED module wire (Clause 5.4 short-circuit)	25,0	-	27,8	-	180	-	-
Diffusor	25,0	-	77,1	-	80	-	-
Adjusting means	25,0	-	48,8	-	60	-	-
Mounting surface	25,0	-	29,8	-	90	-	-
Illuminated objects distance (10cm)	25,0	-	26,7	-	90	-	-

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict

Supplementary information: -

	Type reference ..... :	KFC4A40D32ABS + KPRXX05XXXXBS	—
	Lamp used..... :	(see Annex 1)	—
	Lamp control gear used ..... :	(see Annex 1)	—
	Mounting position of luminaire ..... :	(according Instructions)	—
	Supply wattage (W) ..... :	11,4	—
	Supply current (A) ..... :	0,05	—
	Temperatures in test 1 - 4 below are corrected for ta (ºC) ..... :	25	—
	- abnormal operating mode ..... :	N/A	—
1.13 (12.4)	- test 1: rated voltage ..... :	240V = 240V x 1,0	—
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current ..... :	254,4V = 240 x 1,06	—
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage ..... :	N/A	—
	Through wiring or looping-in wiring loaded by a current of A during the test ..... :	N/A	—
1.13 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current or 130/150% of rated input voltage ..... :	N/A	—

Temperature measurements (ºC)

Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
Convertor (tc)	25,0	43,0	-	-	80	-	-
LED module (tc)	25,0	74,7	-	-	80	-	-
Supply cable	25,0	-	31,7	-	90	-	-
Terminal block	25,0	-	29,8	-	85	-	-
AC connector	25,0	-	25,6	-	85	-	-
LED module wire	25,0	-	58,3	-	180	-	-
LED module wire (Clause 5.4 max output current 700mA)	25,0	-	26,9	-	180	-	-
LED module wire (Clause 5.4 short-circuit)	25,0	-	27,0	-	180	-	-
Diffusor	25,0	-	69,3	-	90	-	-
Adjusting means	25,0	-	52,9	-	60	-	-

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Clause	Requirement + Test	Result - Remark	Verdict

Mounting surface	25,0	-	28,2	-	90	-	-
Illuminated objects distance (10cm)	25,0	-	26,4	-	90	-	-
Supplementary information:							

	Type reference ..... :	KFC2A25N32ABS + KPRXX05XXXXBS	—
	Lamp used..... :	(see Annex 1)	—
	Lamp control gear used ..... :	(see Annex 1)	—
	Mounting position of luminaire ..... :	(according Instructions)	—
	Supply wattage (W) ..... :	12,3	—
	Supply current (A) ..... :	0,06	—
	Temperatures in test 1 - 4 below are corrected for ta (ºC) ..... :	25	—
	- abnormal operating mode ..... :	N/A	—
1.13 (12.4)	- test 1: rated voltage ..... :	240V = 240V x 1,0	—
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current ..... :	254,4V = 240 x 1,06	—
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage ..... :	N/A	—
	Through wiring or looping-in wiring loaded by a current of A during the test ..... :	N/A	—
1.13 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current or 130/150% of rated input voltage ..... :	N/A	—

Temperature measurements (ºC)

Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
Convertor (tc)	25,0	43,9	-	-	75	-	-
LED module 1 (tc)	25,0	61,2	-	-	105	-	-
LED module 2 (tc)	25,0	64,7	-	-	105	-	-
LED module wire (Clause 5.4 max output current 300mA)	25,0	-	28,0	-	105	-	-
LED module wire (Clause 5.4 short-circuit)	25,0	-	27,9	-	105	-	-
Supplementary information:							

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Clause	Requirement + Test	Result - Remark	Verdict

	Type reference ..... :	KTB2A25D32ABS + KPRXX05XXXXBS	—
	Lamp used..... :	(see Annex 1)	—
	Lamp control gear used ..... :	(see Annex 1)	—
	Mounting position of luminaire ..... :	(according Instructions)	—
	Supply wattage (W) ..... :	20,8	—
	Supply current (A) ..... :	0,09	—
	Temperatures in test 1 - 4 below are corrected for ta (ºC) ..... :	25	—
	- abnormal operating mode ..... :	N/A	—
1.13 (12.4)	- test 1: rated voltage ..... :	240V = 240V x 1,0	—
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current ..... :	254,4V = 240 x 1,06	—
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage ..... :	N/A	—
	Through wiring or looping-in wiring loaded by a current of A during the test ..... :	N/A	—
1.13 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current or 130/150% of rated input voltage ..... :	N/A	—

Temperature measurements (ºC)

Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
Convertor (tc)	25,0	43,0	-	-	80	-	-
LED module 1 (tc)	25,0	71,5	-	-	110	-	-
LED module 2 (tc)	25,0	74,9	-	-	110	-	-
Supply cable	25,0	-	27,6	-	90	-	-
Terminal block	25,0	-	29,3	-	85	-	-
AC connector	25,0	-	31,2	-	85	-	-
Connection box	25,0	-	39,4	-	90	-	-
LED module wire	25,0	-	68,4	-	180	-	-
LED module wire (Clause 5.4 max output current 700mA)	25,0	-	27,1	-	180	-	-
LED module wire (Clause 5.4 short-circuit)	25,0	-	27,0	-	180	-	-
Mounting surface	25,0	-	23,6	-	90	-	-

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Clause	Requirement + Test	Result - Remark	Verdict

Illuminated objects distance (10cm)	25,0	-	31,7	-	90	-	-
Supplementary information:							

	Type reference ..... :	KLR1A10D39ABS + KPRXX10XXXXBS	—
	Lamp used..... :	(see Annex 1)	—
	Lamp control gear used ..... :	(see Annex 1)	—
	Mounting position of luminaire ..... :	(according Instructions)	—
	Supply wattage (W) ..... :	16,6	—
	Supply current (A) ..... :	0,08	—
	Temperatures in test 1 - 4 below are corrected for ta (ºC) ..... :	25	—
	- abnormal operating mode ..... :	N/A	—
1.13 (12.4)	- test 1: rated voltage ..... :	240V = 240V x 1,0	—
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current ..... :	254,4V = 240 x 1,06	—
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage ..... :	N/A	—
	Through wiring or looping-in wiring loaded by a current of A during the test ..... :	N/A	—
1.13 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current or 130/150% of rated input voltage ..... :	N/A	—

Temperature measurements (ºC)

Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
Convertor (tc)	25,0	42,6	-	-	65	-	-
LED module (tc)	25,0	43,9	-	-	80	-	-
Supply cable	25,0	-	33,0	-	90	-	-
Terminal block	25,0	-	34,4	-	85	-	-
AC connector	25,0	-	25,6	-	85	-	-
LED module wire	25,0	-	41,4	-	80	-	-
Diffuser	25,0	-	38,2	-	90	-	-
Mounting surface	25,0	-	35,2	-	90	-	-
Illuminated objects distance (10cm)	25,0	-	25,2	-	90	-	-

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict

Supplementary information:

	Type reference ..... :	KBLPA04D39ABS + KPRXX05XXXXBS	—
	Lamp used..... :	(see Annex 1)	—
	Lamp control gear used ..... :	(see Annex 1)	—
	Mounting position of luminaire ..... :	(according Instructions)	—
	Supply wattage (W) ..... :	11,3	—
	Supply current (A) ..... :	0,05	—
	Temperatures in test 1 - 4 below are corrected for ta (ºC) ..... :	25	—
	- abnormal operating mode ..... :	N/A	—
1.13 (12.4)	- test 1: rated voltage ..... :	240V = 240V x 1,0	—
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current ..... :	254,4V = 240 x 1,06	—
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage ..... :	N/A	—
	Through wiring or looping-in wiring loaded by a current of A during the test ..... :	N/A	—
1.13 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current or 130/150% of rated input voltage ..... :	N/A	—

Temperature measurements (ºC)

Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
Convertor (tc)	25,0	45,7	-	-	80	-	-
LED module (tc)	25,0	59,7	-	-	80	-	-
Supply cable	25,0	-	27,3	-	90	-	-
Terminal block	25,0	-	42,3	-	85	-	-
LED module wire	25,0	-	58,9	-	180	-	-
LED module wire (Clause 5.4 max output current 490mA)	25,0	-	27,3	-	180	-	-
LED module wire (Clause 5.4 short-circuit)	25,0	-	27,2	-	180	-	-
Mounting surface	25,0	-	29,4	-	90	-	-
Illuminated objects distance (10cm)	25,0	-	25,2	-	90	-	-

Supplementary information:

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict

	Type reference ..... :	KBLUA04D39ABS + KPRXX05XXXXBS	—
	Lamp used..... :	(see Annex 1)	—
	Lamp control gear used ..... :	(see Annex 1)	—
	Mounting position of luminaire ..... :	(according Instructions)	—
	Supply wattage (W) ..... :	11,3	—
	Supply current (A) ..... :	0,05	—
	Temperatures in test 1 - 4 below are corrected for ta (ºC) ..... :	25	—
	- abnormal operating mode ..... :	N/A	—
1.13 (12.4)	- test 1: rated voltage ..... :	240V = 240V x 1,0	—
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current ..... :	254,4V = 240 x 1,06	—
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage ..... :	N/A	—
	Through wiring or looping-in wiring loaded by a current of A during the test ..... :	N/A	—
1.13 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current or 130/150% of rated input voltage ..... :	N/A	—

Temperature measurements (ºC)

Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
Convertor (tc)	25,0	48,7	-	-	80	-	-
LED module (tc)	25,0	46,1	-	-	80	-	-
LED module wire (Clause 5.4 max output current 490mA)	25,0	-	24,7	-	180	-	-
LED module wire (Clause 5.4 short-circuit)	25,0	-	24,7	-	180	-	-
Supplementary information:							

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 3	**Screw terminals (part of the luminaire)**		**P**
(14)	**SCREW TERMINALS**		**P**
(14.2)	Type of terminal.....:	Lug terminal	—
	Rated current (A).....:	Earth terminal	—
(14.3.2.1)	One or more conductors	Only one conductor	P
(14.3.2.2)	Special preparation		P
(14.3.2.3)	Terminal size		P
	Cross-sectional area (mm²).....:	0,75	—
(14.3.3)	Conductor space (mm).....:	Lug terminal	N/A
(14.4)	Mechanical tests		P
(14.4.1)	Minimum distance		N/A
(14.4.2)	Cannot slip out		N/A
(14.4.3)	Special preparation		N/A
(14.4.4)	Nominal diameter of thread (metric ISO thread).....:	M5	P
	External wiring		N/A
	No soft metal		P
(14.4.5)	Corrosion		P
(14.4.6)	Nominal diameter of thread (mm) .....:	5,1	P
	Torque (Nm).....:	2,0	P
(14.4.7)	Between metal surfaces		P
	Lug terminal		P
	Mantle terminal		P
	Pull test; pull (N).....:	40	P
(14.4.8)	Without undue damage		P

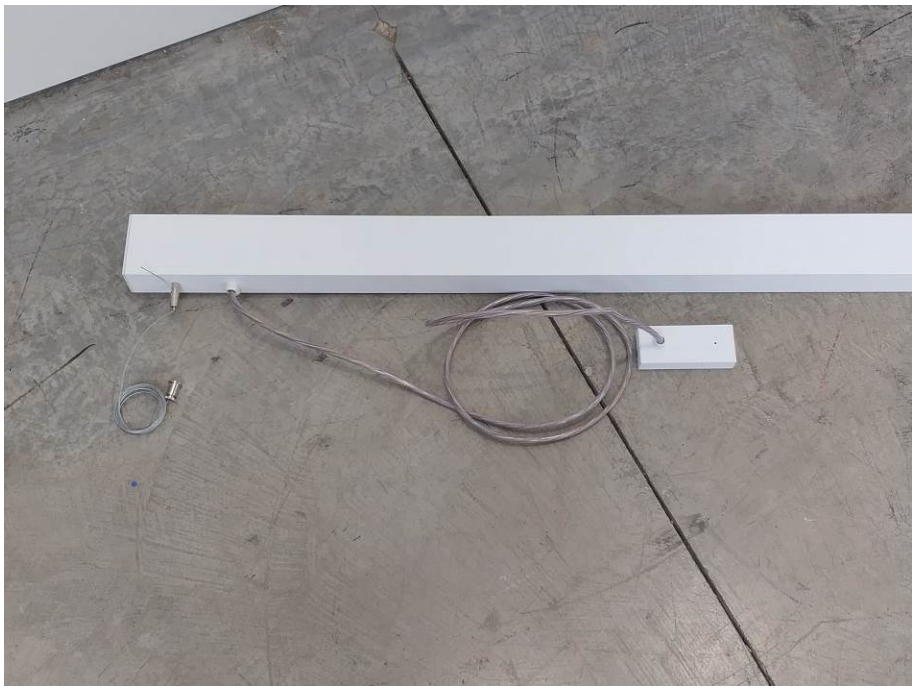
IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict

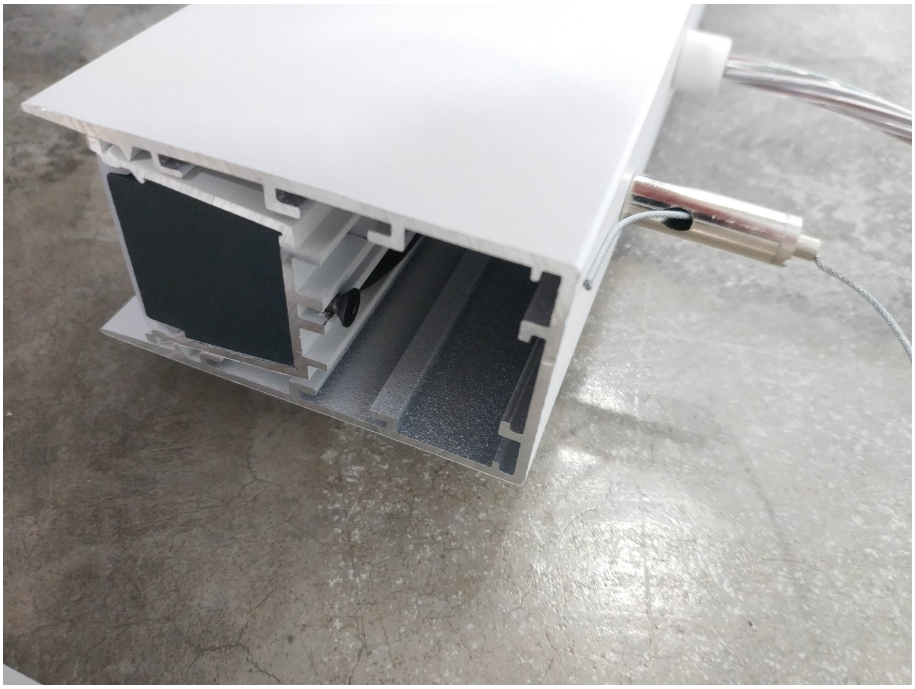
ANNEX 4	**Screwless terminals (part of the luminaire)**		**N/A**
(15)	**SCREWLESS TERMINALS**		**N/A**
(15.2)	Type of terminal.....:		—
	Rated current (A).....:		—
(15.3.1)	Material		N/A
(15.3.2)	Clamping		N/A
(15.3.3)	Stop		N/A
(15.3.4)	Unprepared conductors		N/A
(15.3.5)	Pressure on insulating material		N/A
(15.3.6)	Clear connection method		N/A
(15.3.7)	Clamping independently		N/A
(15.3.8)	Fixed in position		N/A
(15.3.10)	Conductor size		N/A
	Type of conductor		N/A
(15.5)	Terminals and connections for internal wiring		N/A
(15.5.1)	Mechanical tests		N/A
(15.5.1.1.1)	Pull test spring-type terminals (4 N, 4 samples) .....:		N/A
(15.5.1.1.2)	Pull test pin or tab terminals (4 N, 4 samples) .....:		N/A
	Insertion force not exceeding 50 N		N/A
(15.5.1.2)	Permanent connections: pull-off test (20 N)		N/A
(15.5.2)	Electrical tests		N/A
	Voltage drop (mV) after 1 h (4 samples).....:		N/A
	Voltage drop of two inseparable joints		N/A
	Number of cycles:		—
	Voltage drop (mV) after 10th alt. 25th cycle (4 samples).....:		N/A
	Voltage drop (mV) after 50th alt. 100th cycle (4 samples).....:		N/A
	After ageing, voltage drop (mV) after 10th alt. 25th cycle (4 samples) .....:		N/A
	After ageing, voltage drop (mV) after 50th alt. 100th cycle (4 samples) .....:		N/A
(15.6)	Terminals and connections for external wiring		N/A
(15.6.1)	Conductors		N/A
	Terminal size and rating		N/A

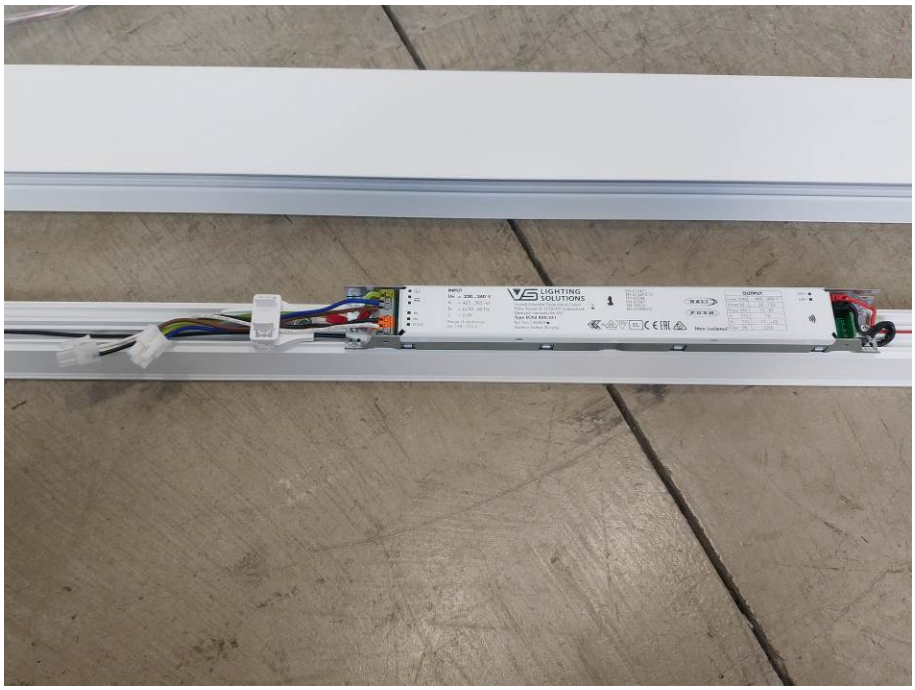
IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict
15.6.2	Mechanical tests		N/A
(15.6.2.1)	Pull test spring-type terminals or welded connections (4 samples); pull (N) .....:		N/A
(15.6.2.2)	Pull test pin or tab terminals (4 samples); pull (N) .....:		N/A
(15.6.3)	Electrical tests		N/A
	Tests according 15.6.3.1 + 15.6.3.2 in IEC 60598-1		N/A

(15.6.3.1) (15.6.3.2)	**TABLE: Contact resistance test / Heating tests**									N/A
	Voltage drop (mV) after 1 h									—
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)										
	Voltage drop of two inseparable joints									
	Voltage drop after 10th alt. 25th cycle									
	Max. allowed voltage drop (mV) ..... :									—
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)										
	Voltage drop after 50th alt. 100th cycle									
	Max. allowed voltage drop (mV) ..... :									—
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)										
	Continued ageing: voltage drop after 10th alt. 25th cycle									
	Max. allowed voltage drop (mV) ..... :									—
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)										
	Continued ageing: voltage drop after 50th alt. 100th cycle									
	Max. allowed voltage drop (mV) ..... :									—
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)										
Supplementary information:										

Attachment No. 1	Photo document	Reference: LNERA28D3AWS + LNEXKSED150WS + LNEXKSUP150WS	—



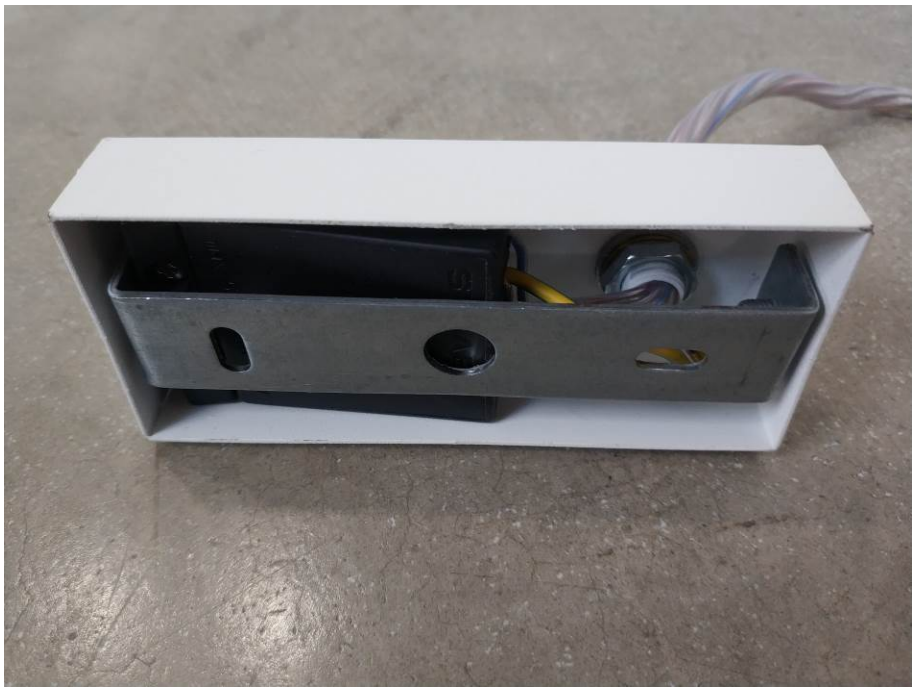





INPUT
LIGHTING SOLUTIONS
DALI
PUSH
OUTPUT
Non isolated


INPUT
PUSH


WU-M-671-TC-830 700mA DC max. 570744.92
2-517803-00177 11/21 Made in Serbia (Europe)
Ossiach-Schwabe Deutschland GmbH, Rohr Steinert 8, D-58589 Lüdenscheid
A1/M324S



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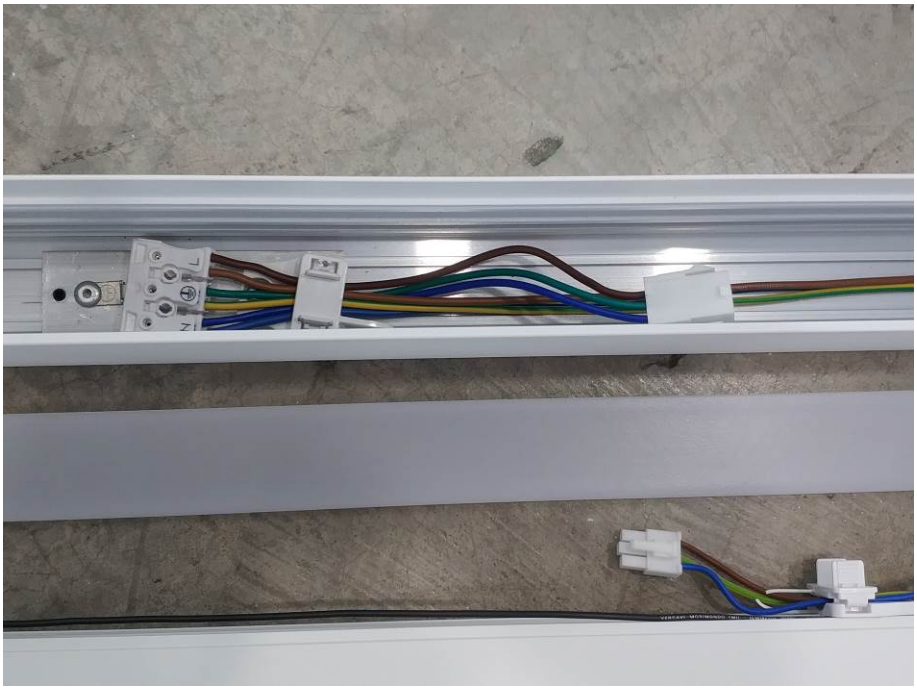
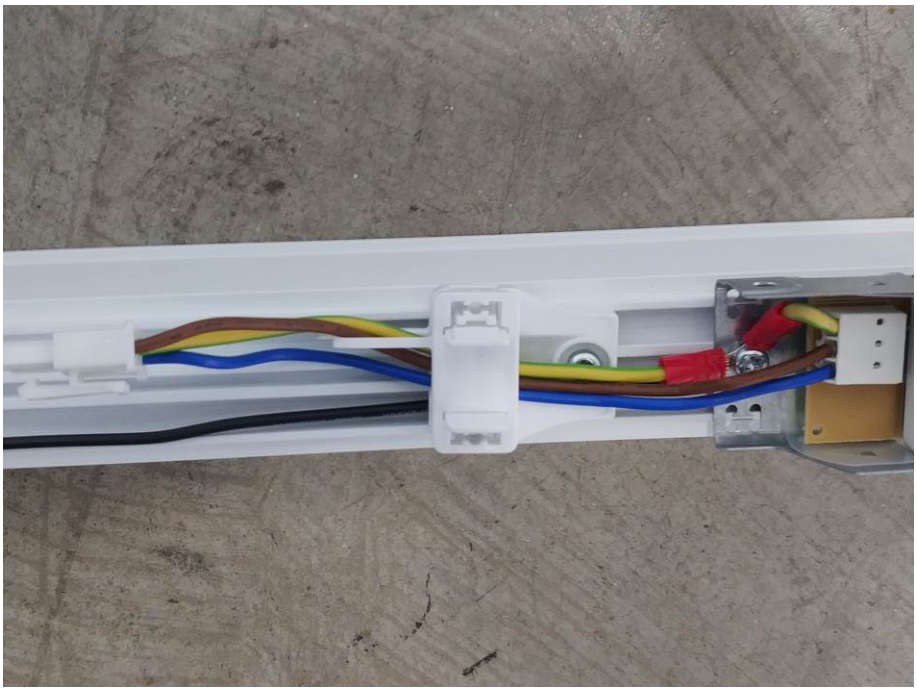



INPUT
UN = 120...240 V~
IN = 390...200 mA
fN = 50...60 Hz
λ = 0,95
LIGHTING SOLUTIONS
Vossloh-Schwabe Deutschland GmbH
Hohe Steinert 8, D-58509 Lüdenscheid
Electronic converter for LED
Type ECXe 600.442
Ref.-No. 187061
Made in Serbia (Europe)
EN 61347-1
EN 61347-2-13
EN 62384
EN 61547
EN 55015
EN 61000-3-2
OUTPUT
Non isolated



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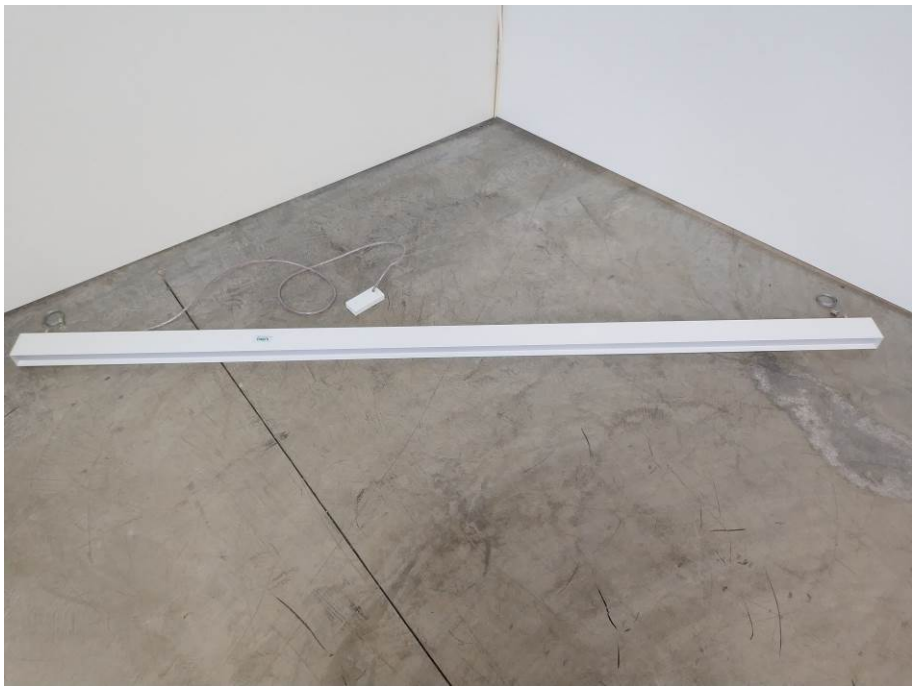
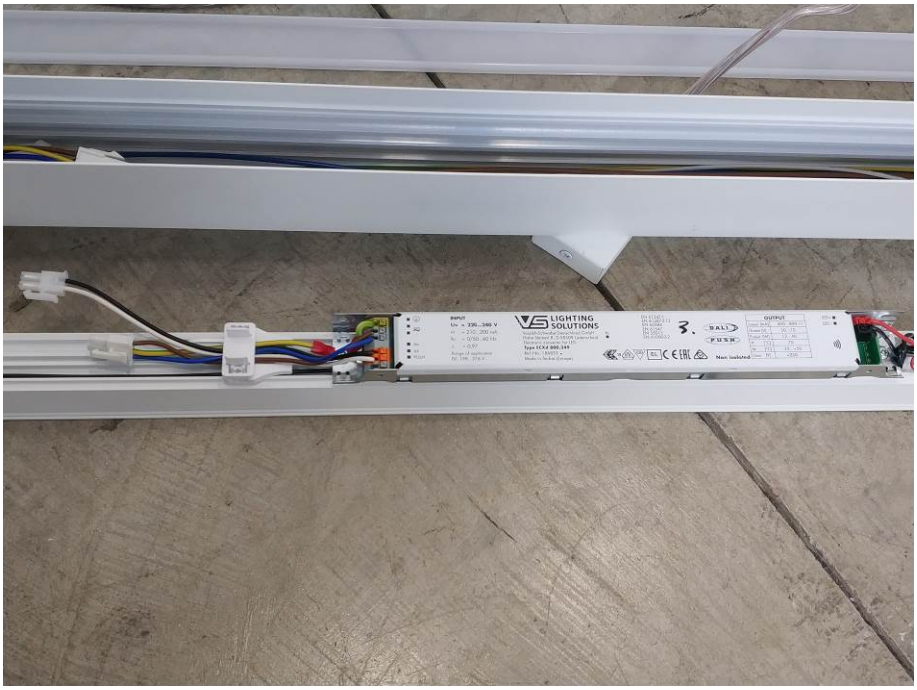
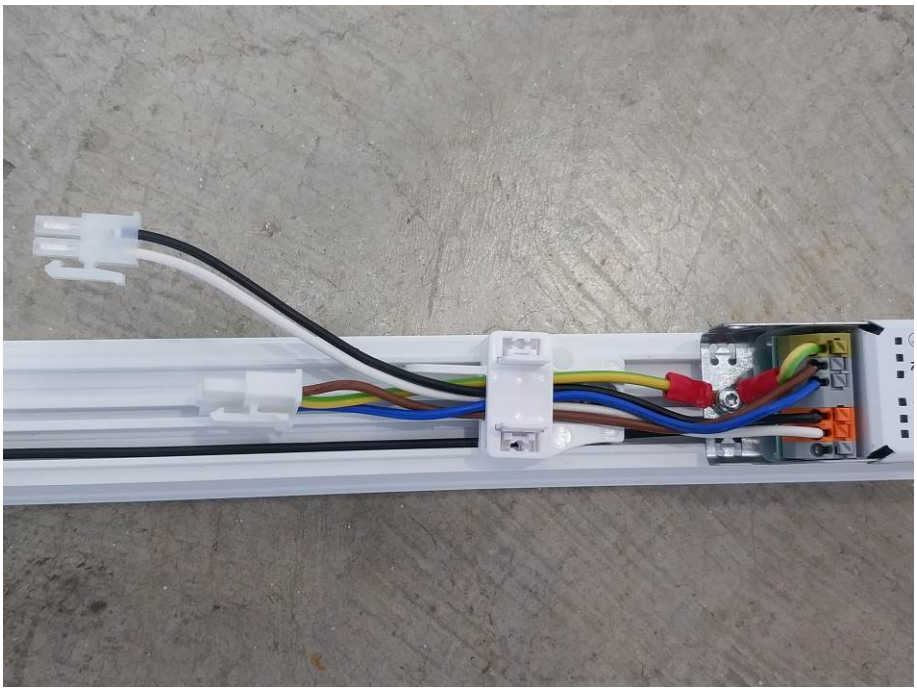
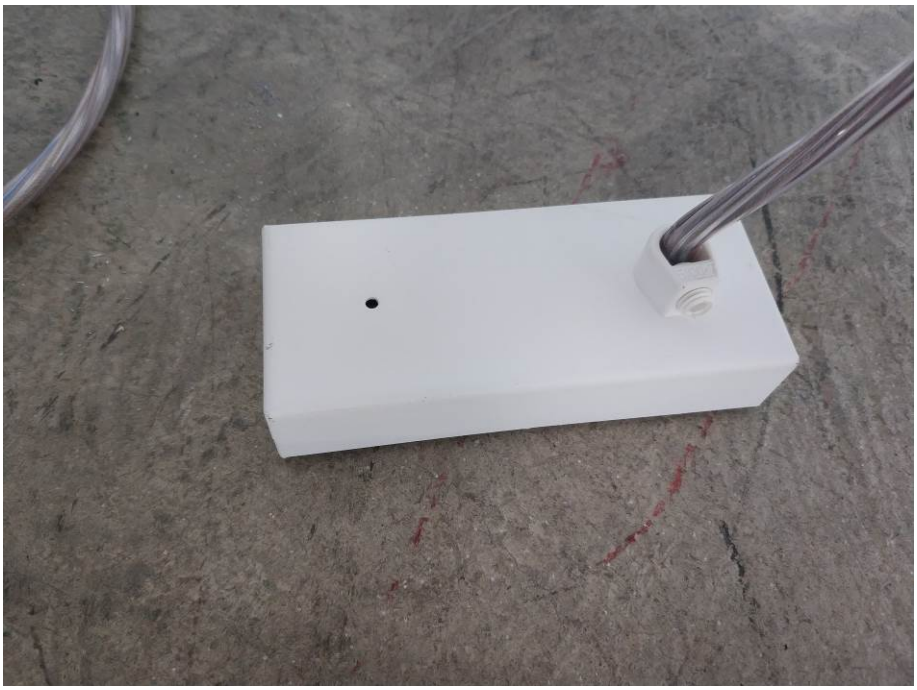



LIGHTING
SOLUTIONS
DALI
FUSE




INPUT
LIGHTING SOLUTIONS
Type ECXd 800.349
DALI
PUSH
Non isolated
OUTPUT



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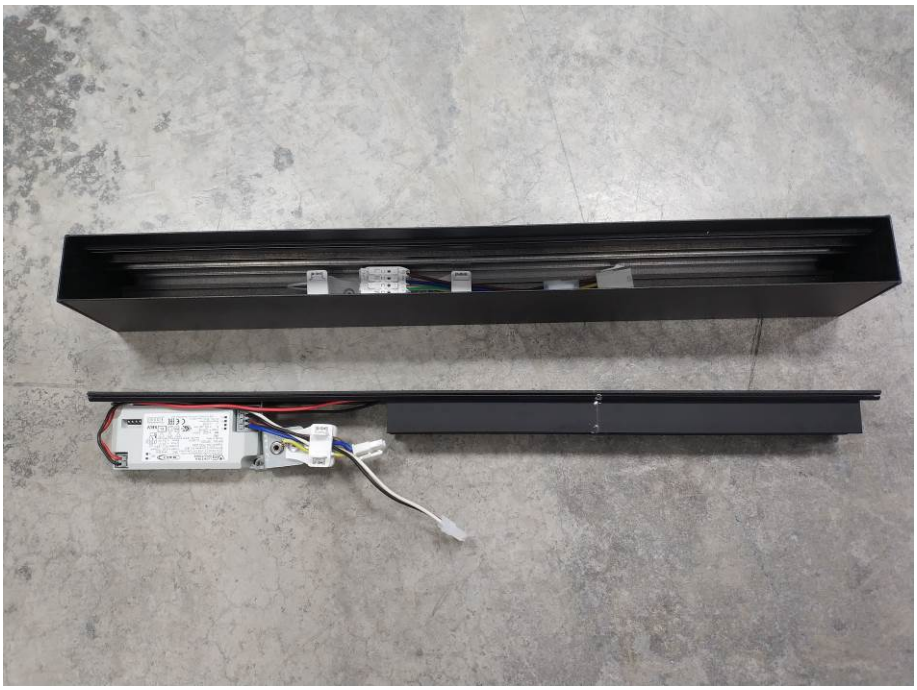
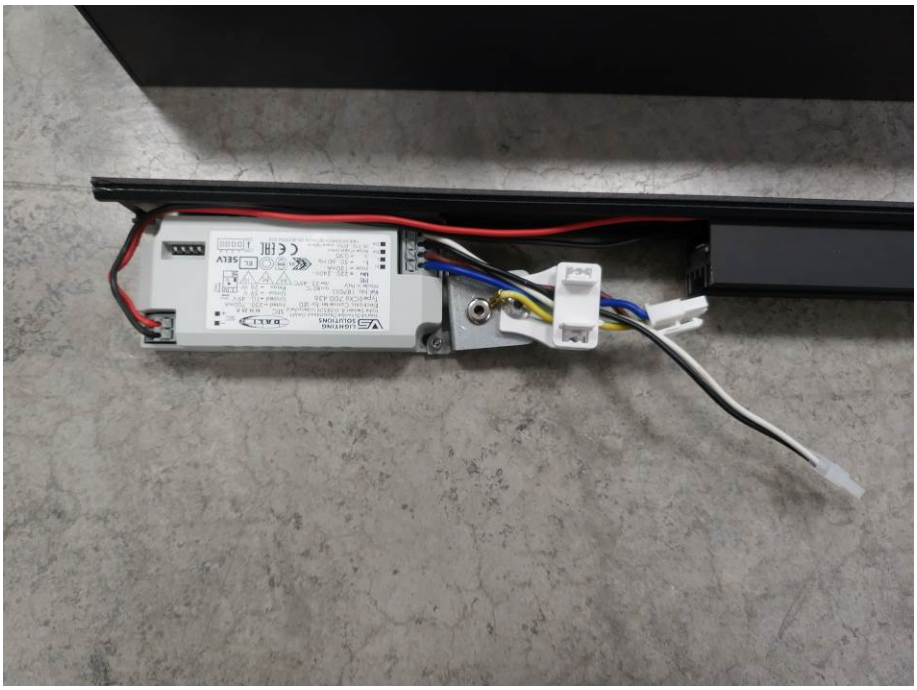
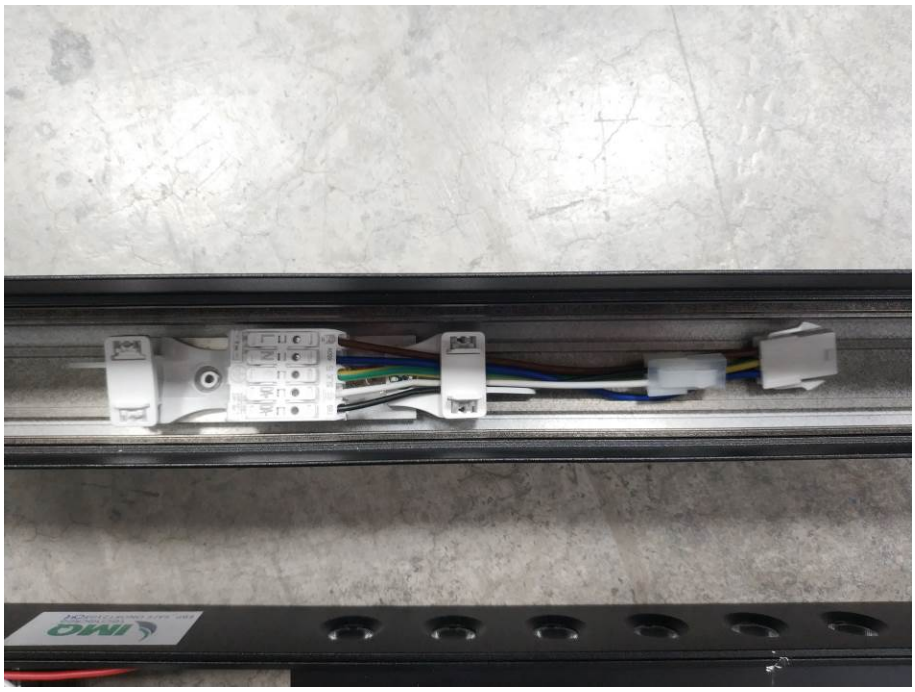
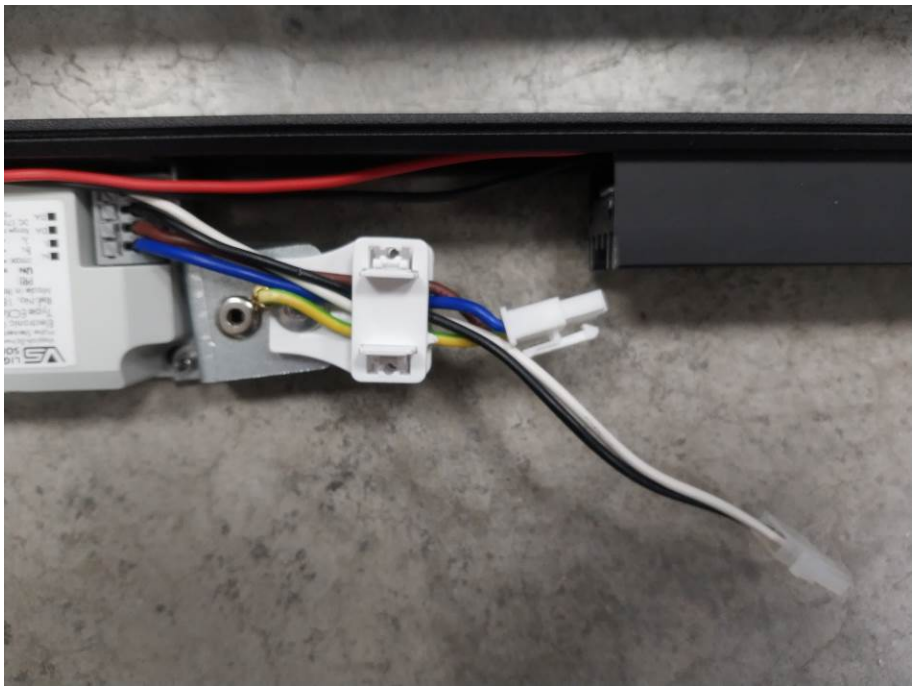




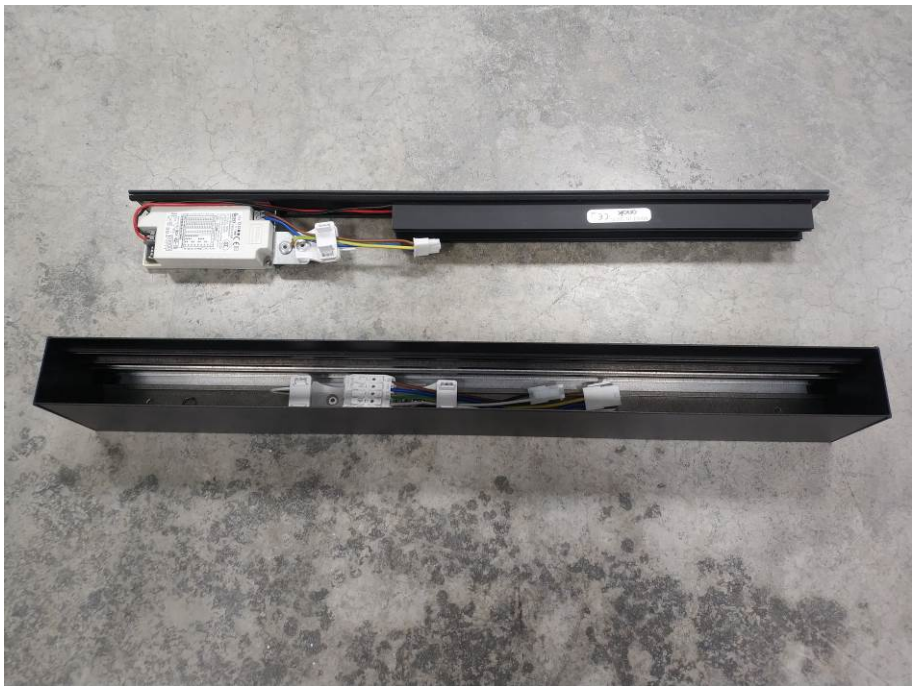

LIGHTING SOLUTIONS
Vossloh-Schwabe Deutschland GmbH
Hohe Steinert 8, D-58509 Lüdenscheid
Electronic Converter for LED
Type ECXd 700.436
Ref.-No. 187053
Made in Italy
tc=80°C
ta=-25...45°C
PRI
UN = 220...240V~
Imax = 150mA
fN = 50...60 Hz
λ = 0,95
Range of application
DC 176...275V; Imax=180mA
*SEE DIP SWITCH SETTINGS ON BOTTOM SIDE
DALI
SEC
M N 26 K
Irated = 250...700mA
Urated = 10...49V
Umax = 59 V
Pmax = 26 W
EL
SELV
OFF
ON

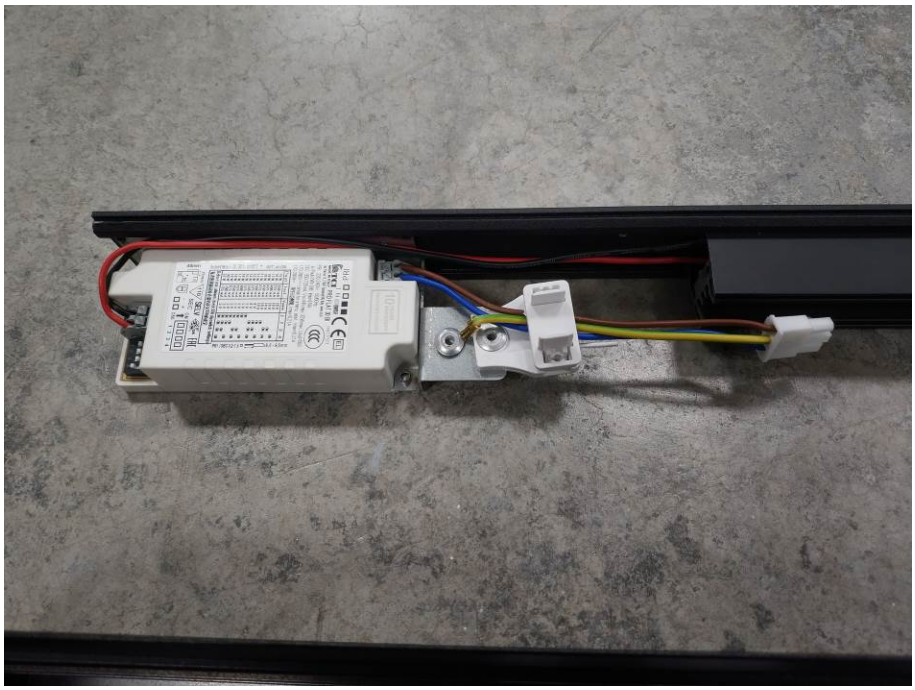


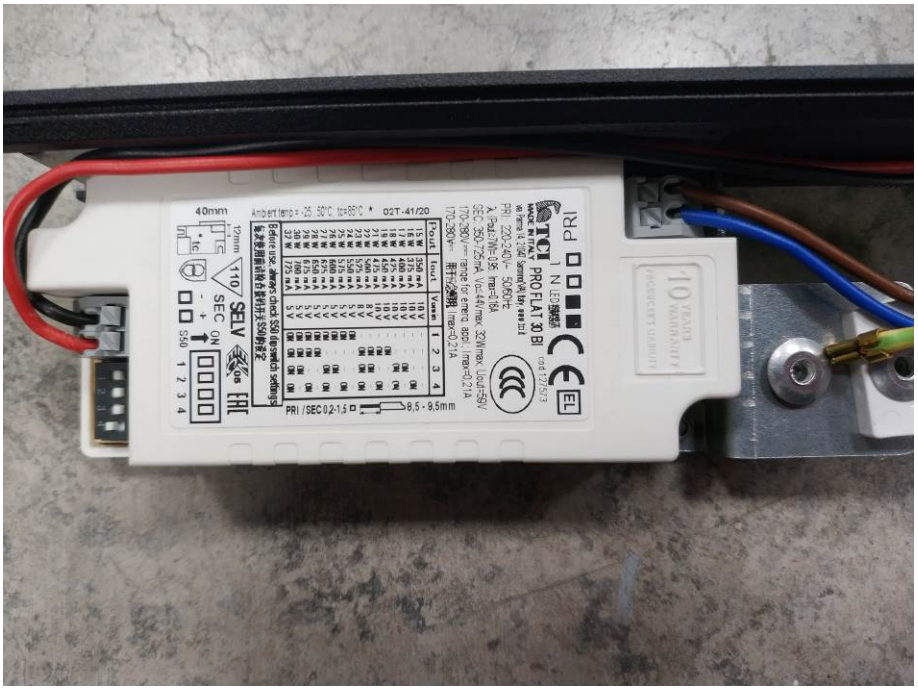



LD4
5 LED / Pn=10.5W In=700mA / Vf=15V

	Photo document	Reference: KDT1A10N33DBS + KPRXX05XXXXBS	—

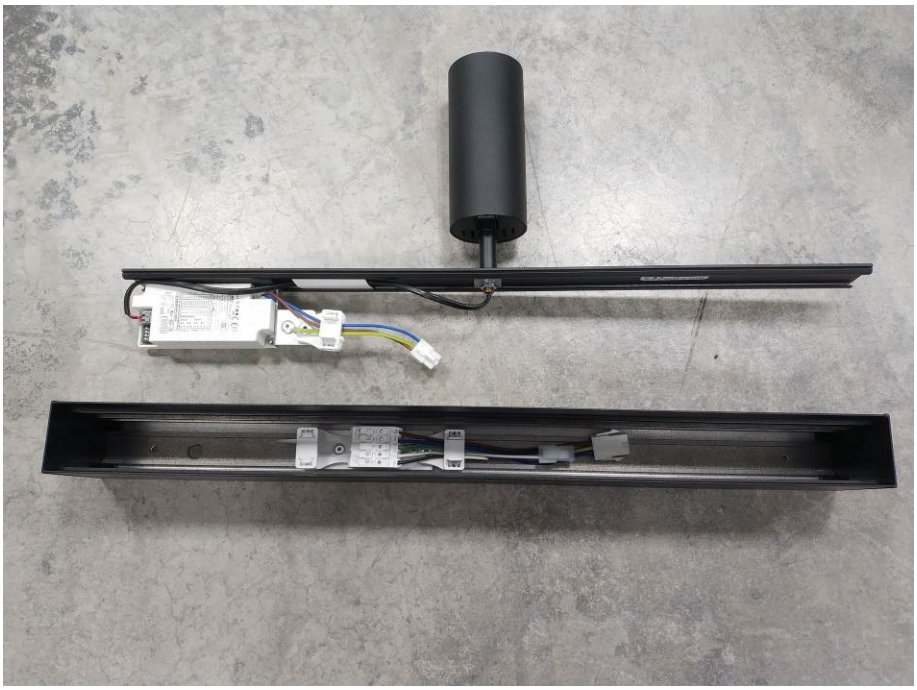


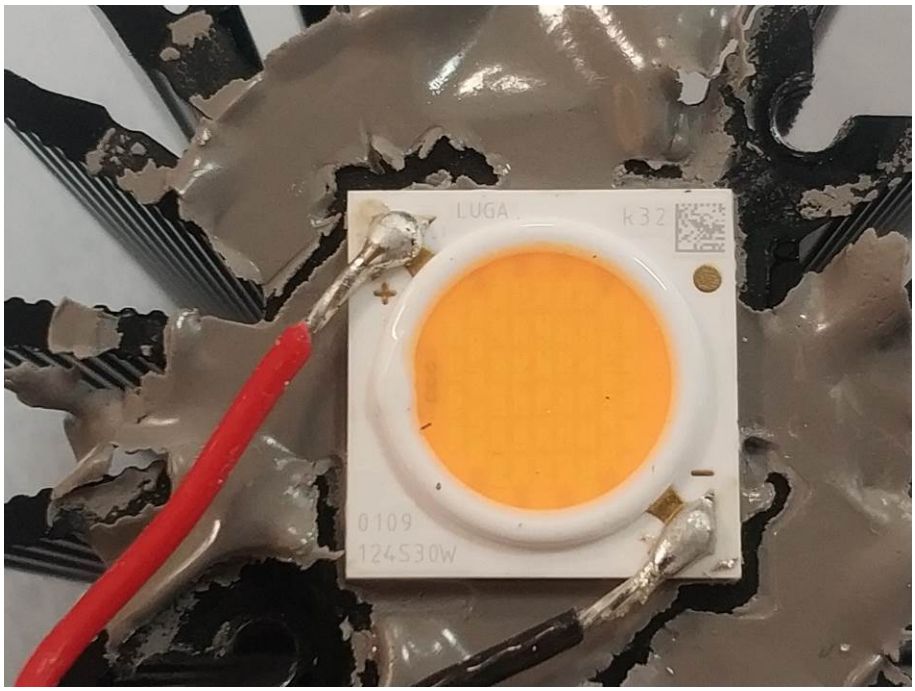


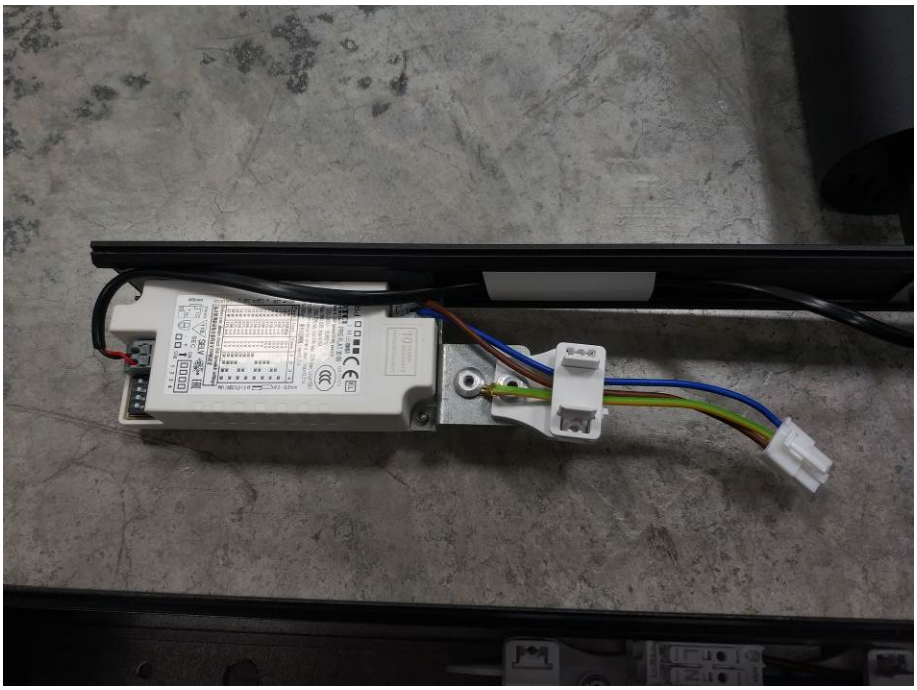

PRO FLAT 30 BI
SELV
SEC ON
40mm
112mm
8,5 - 9,5mm

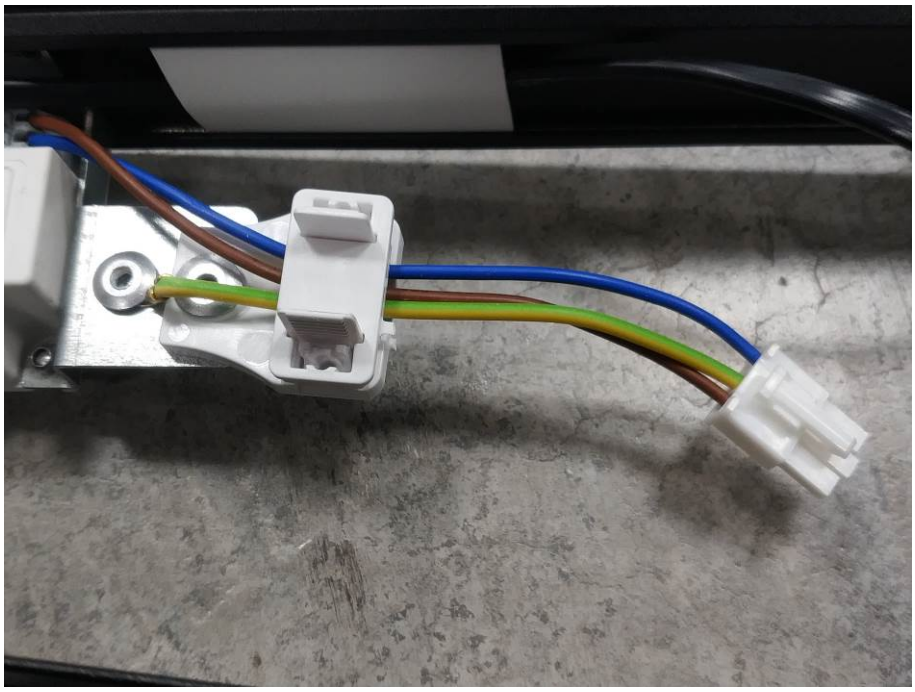

RoHS
LD4
5 LED / Pn=10.5W In=700mA / Vf=15V

	Photo document	Reference: KFC5AN34BBS + KPRXX05XXXXBS	—




LUGA
k32
0109
124S30W





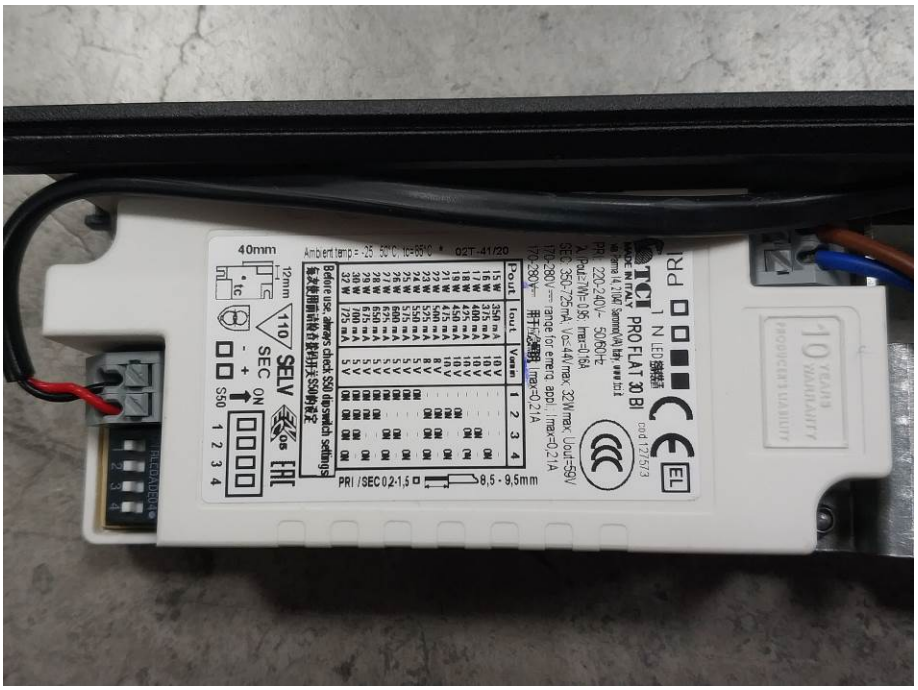
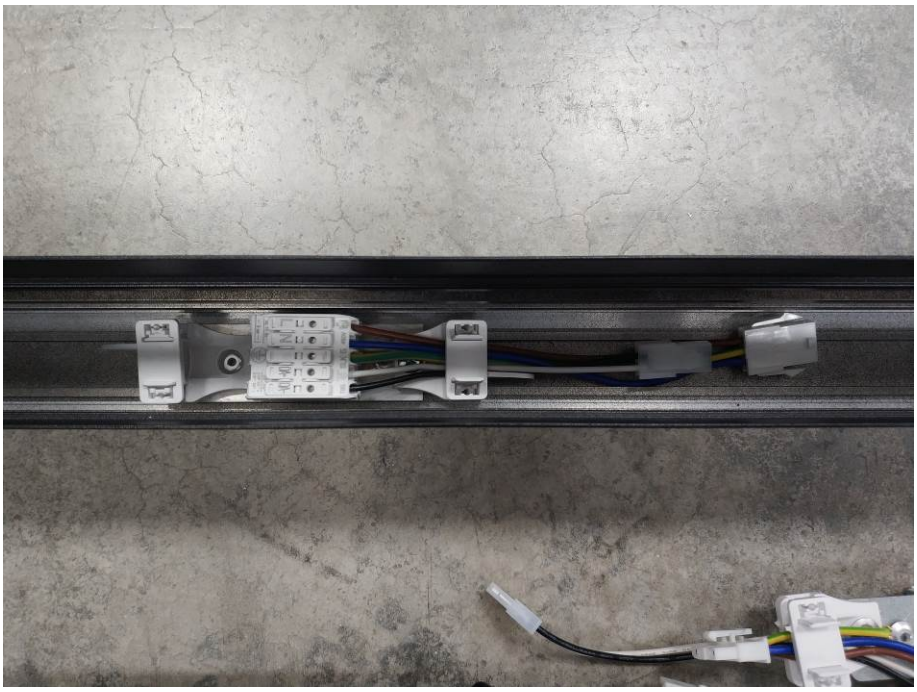

PRO FLAT 30 BI
cod 12/5/3
40mm
12mm
110
SELV
SEC
ON
S50
PRI / SEC 0.2-1.5
8,5 - 9,5mm
10 YEARS
WARRANTY

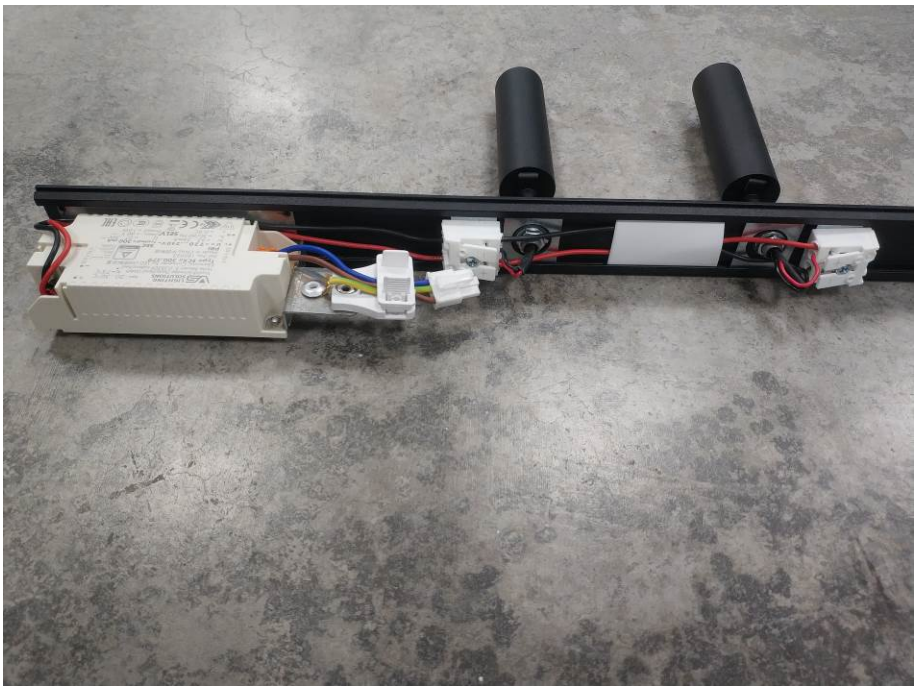
	Photo document	Reference: KFC4A40D32ABS + KPRXX05XXXXBS	—


LIGHTING SOLUTIONS
Vossloh-Schwabe Deutschland GmbH
Hohe Steinert 8, D-58509 Lüdenscheid
Electronic Converter for LED
Type ECXd 700.436
Ref.-No. 187053
Made in Italy
tc=80°C
ta=-25...45°C
PRI
UN = 220...240V~
Imax = 150mA
fN = 50...60 Hz
λ = 0,95
Range of application
DC 176...275V, Imax=180mA
*SEE DIP SWITCH SETTINGS ON BOTTOM SIDE
SEC M N 26 K
Irated = 250...700mA
Urated = 10...49V
Umax = 59 V
Pmax = 26 W
EL
SELV
OFF
ON

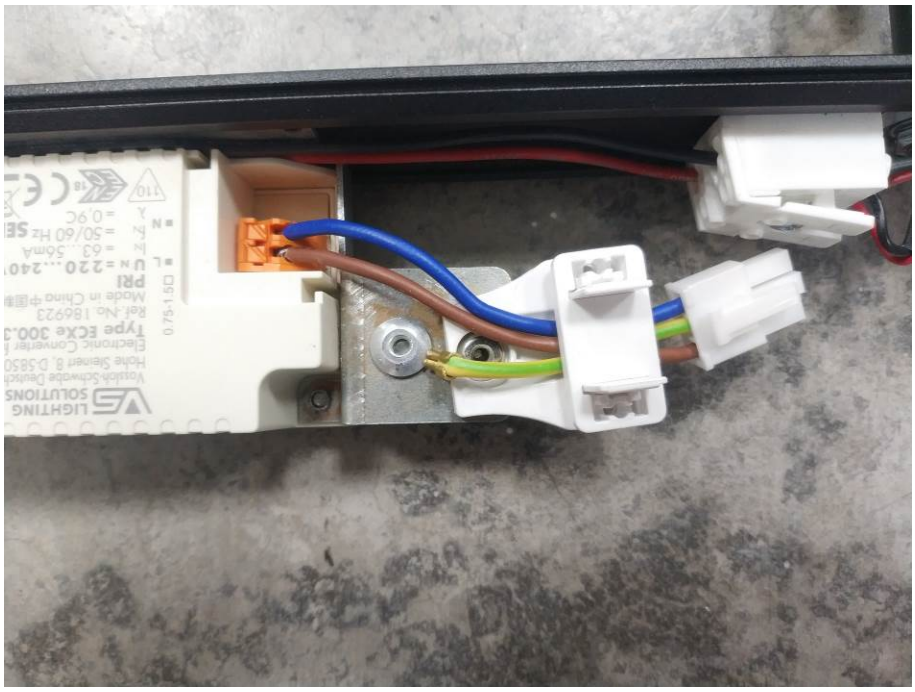



onok
PCB 02.381

	Photo document	Reference: KFC2A25N32ABS + KPRXX05XXXXBS	—

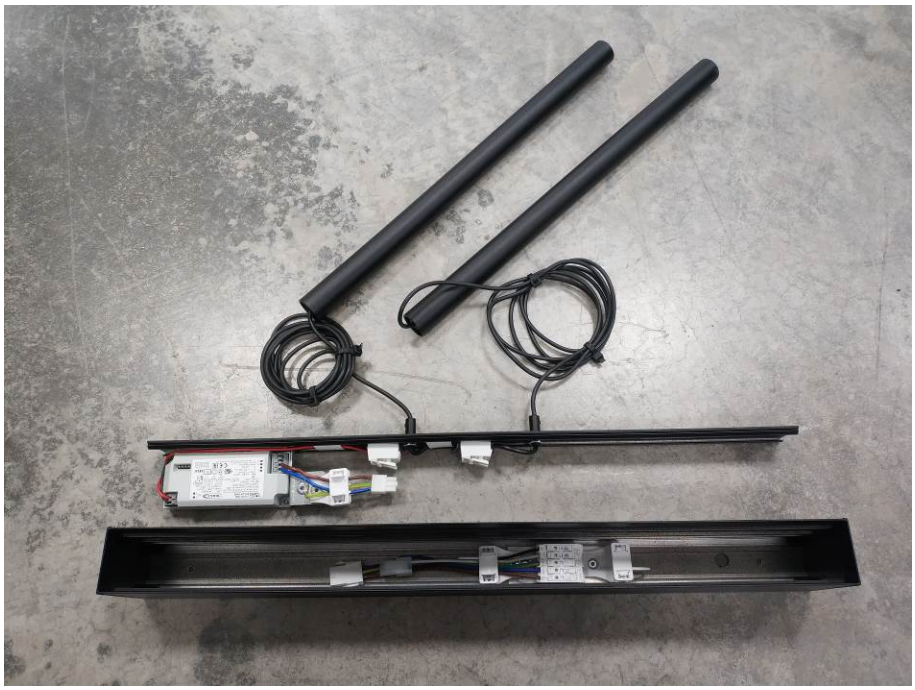


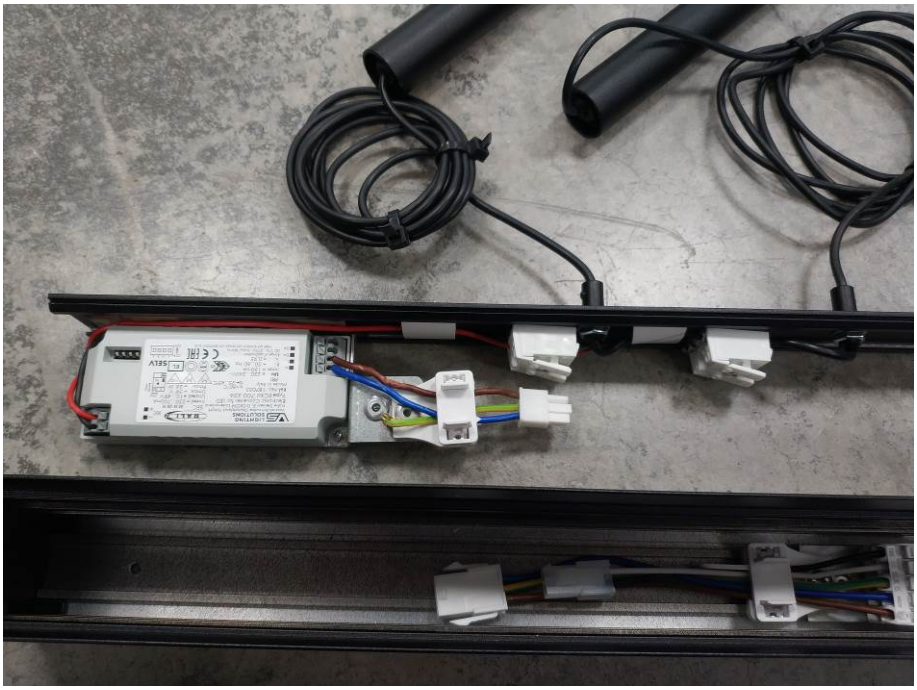

LIGHTING SOLUTIONS
Vossloh-Schwabe Deutschland GmbH
Hohe Steinert 8, D-58509 Lüdenscheid
Electronic Converter for LED LED控制装置
Type ECXe 300.379
Ref.-No.186923
Made in China 中国制造
PRI
SEC
SELV
ta= -20...50°C
tc=75°C




blx

	Photo document	Reference: KTB2A25D32ABS + KPRXX05XXXXBS	—






LIGHTING SOLUTIONS
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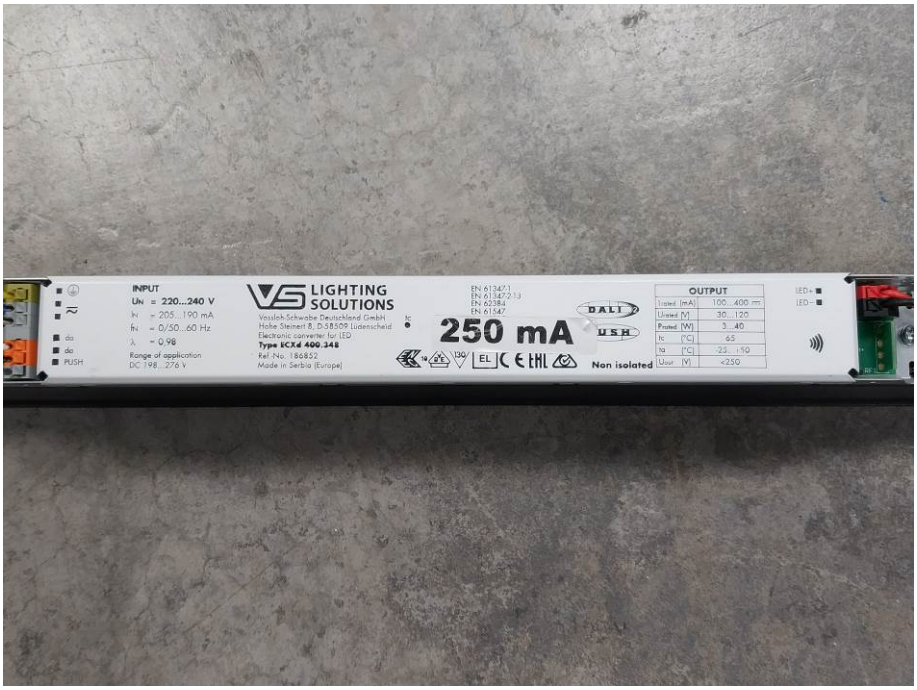
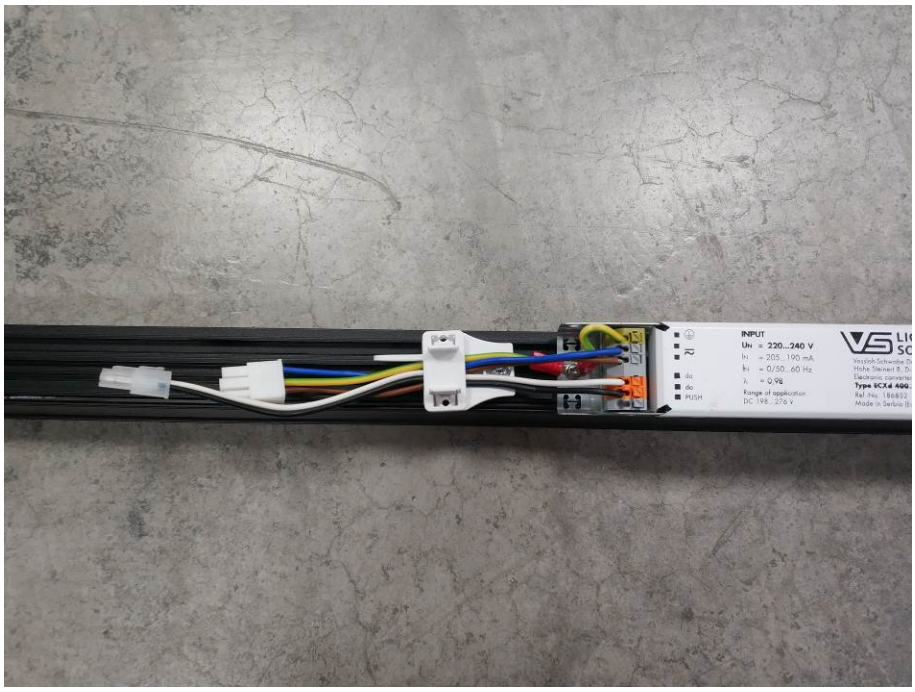
Hohe Steinert 8, D-58509 Lüdenscheid
Electronic Converter for LED
Type ECXd 700.436
Ref.-No. 187053
Made in Italy
tc=80°C
ta=-25...45°C
PRI
UN = 220...240V~
Imax = 150mA
fN = 50...60 Hz
λ = 0,95
Range of application
DC 176...275V; Imax=180mA
*SEE DIP SWITCH SETTINGS ON BOTTOM SIDE
DALI
SEC
M N 26 K
Irated = 250...700mA
Urated = 10...49 V
Umax = 59 V
Pmax = 26 W
EL
SELV
ON
OFF


IN SPAIN
onok


27K CRI90 F2
onol
lighting
17/21
PCB 02.381

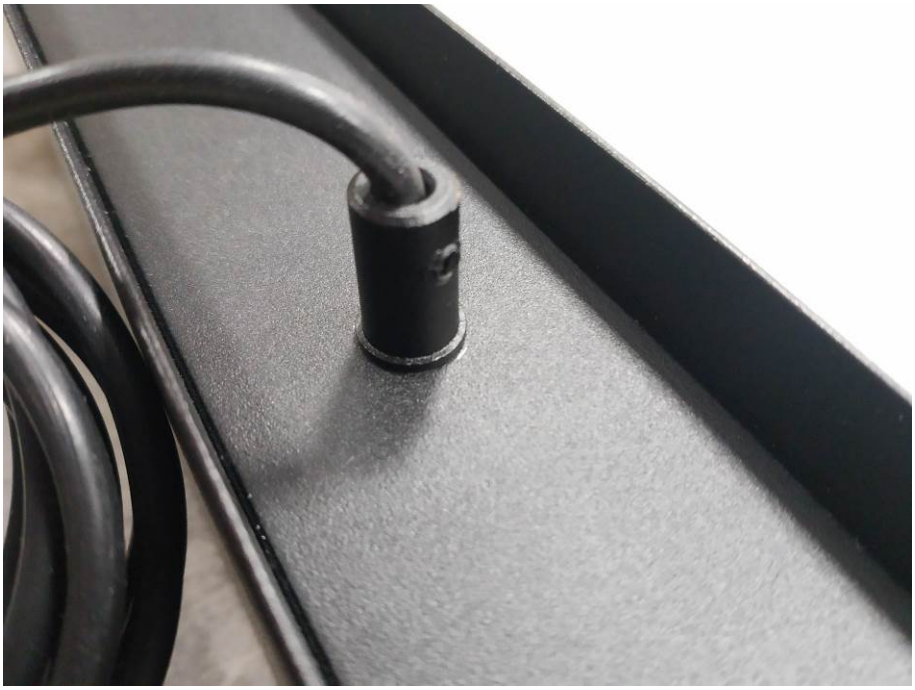
	Photo document	Reference: KLR1A10D39ABS + KPRXX10XXXXBS	—


INPUT
LIGHTING SOLUTIONS
250 mA
DALI
PUSH
Non isolated
OUTPUT

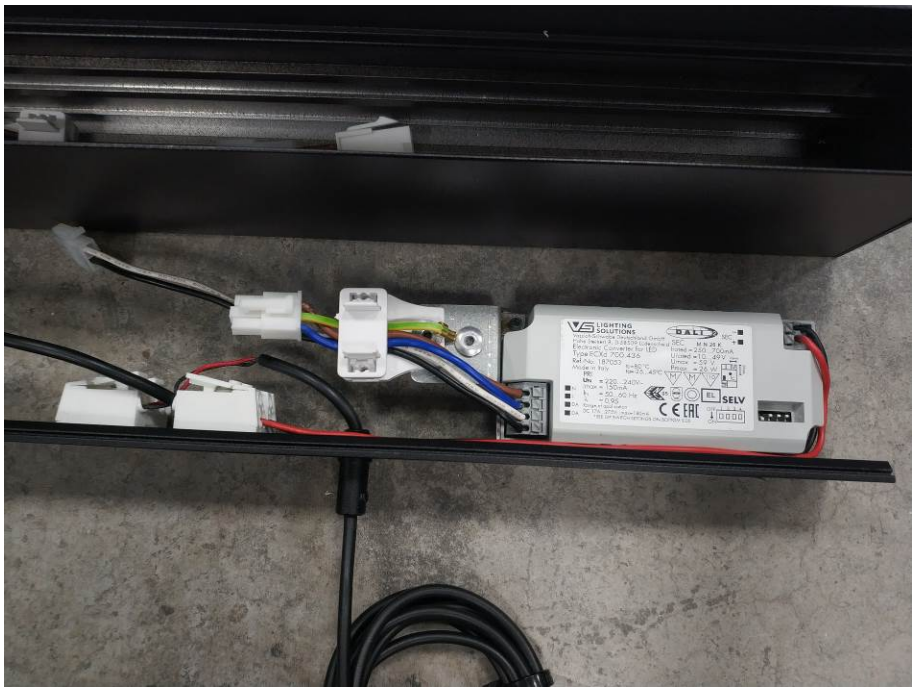

INPUT
Range of application
DC 198...276 V
PUSH


WU-M-590-TC-830 700mA DC max. 566773.92 2-444046 00067 51/19 Made in Serbia (Europe)

	Photo document	Reference: KBLPA04D39ABS + KPRXX05XXXXBS	—




LD4
PCB:02.647
VM 3K
onok
lighting



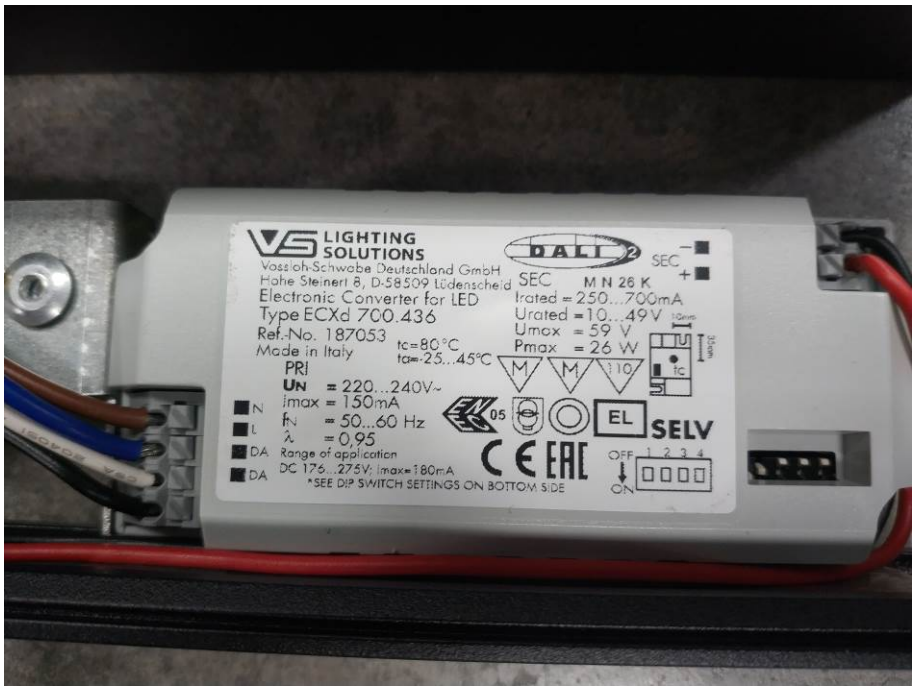
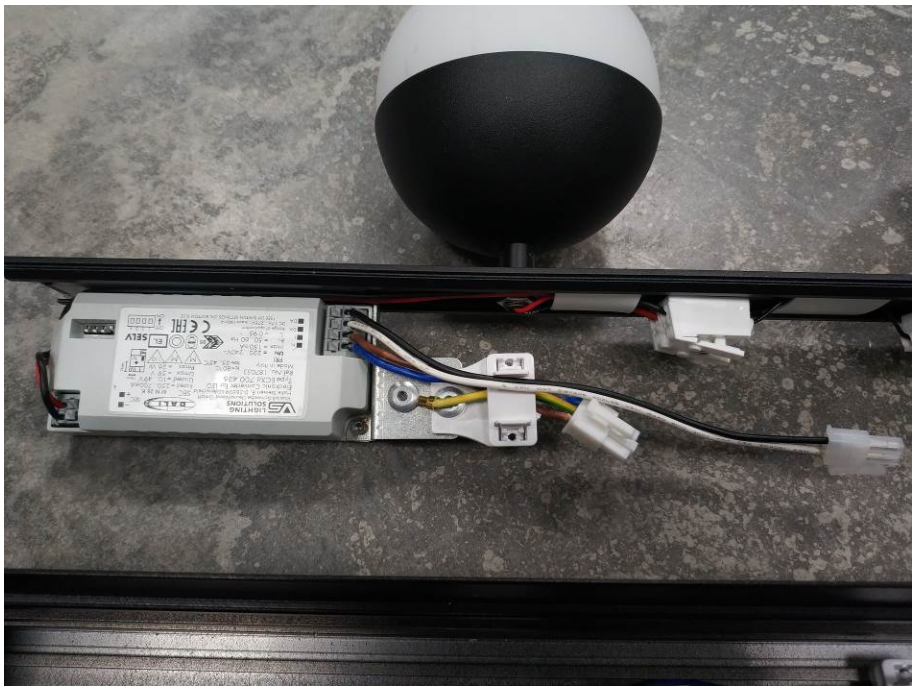

LIGHTING SOLUTIONS
Vossloh-Schwabe Deutschland GmbH
Hohe Steinert 8, D-58509 Lüdenscheid
Electronic Converter for LED
Type ECXd 700.436
Ref.-No. 187053
Made in Italy
tc=80°C
ta=-25...45°C
PRI
UN = 220...240V~
Imax = 150mA
fN = 50...60 Hz
λ = 0,95
Range of application
DC 176...275V; Imax=180mA
*SEE DIP SWITCH SETTINGS ON BOTTOM SIDE
DALI
SEC
SEC M N 26 K
Irated = 250...700mA
Urated = 10...49 V
Umax = 59 V
Pmax = 26 W
EL
SELV
OFF
ON
1 2 3 4

	Photo document	Reference: KBLUA04D39ABS + KPRXX05XXXXBS	—

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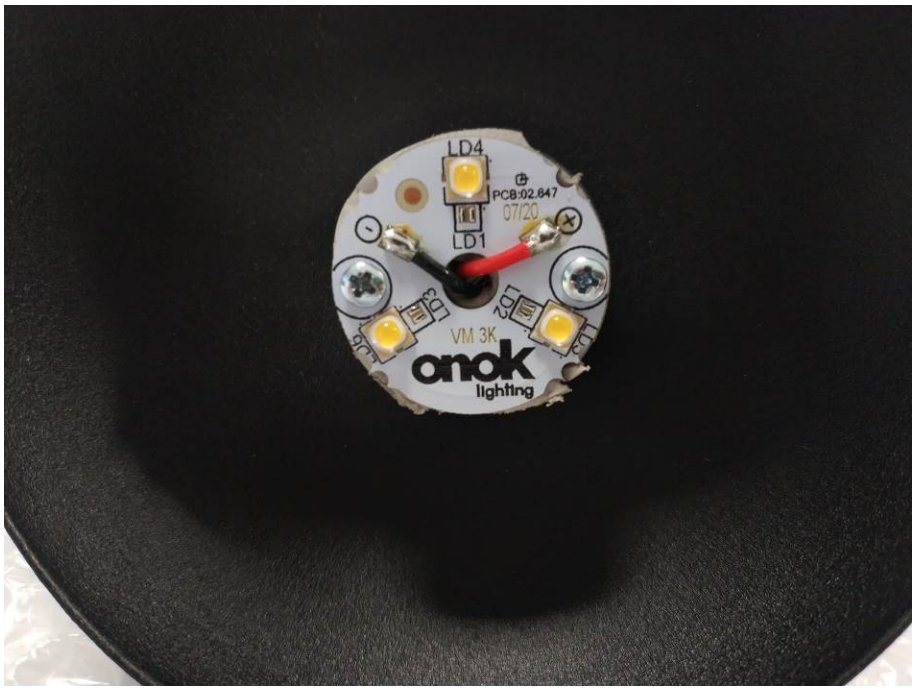
OFF
ON


LD4
PCB:02.847
07/20
LD1
VM 3K
onok
lighting

IEC60598_2_1H ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
ATTACHMENT TO TEST REPORT **IEC 60598-2-1:2020** **EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES** LUMINAIRES Part 2: Particular requirements Section 1: Fixed general purpose luminaires			
Differences according to.....:	EN 60598-2-1:2021 used in conjunction with EN 60598-1:2021 + A11:2022		
TRF template used .....:	IECEE OD-2020-F2:2020, Ed. 1.1		
Attachment Form No.....:	EU_GD_IEC60598_2_1H		
Attachment Originator .....:	UL(Demko)		
Master Attachment.....:	2022-04-08		
	CENELEC COMMON MODIFICATIONS (EN)		—
1.7 (4)	**CONSTRUCTION**		**N/A**
1.7 (4.11.6)	Electro-mechanical contact systems		N/A
1.11 (5)	**EXTERNAL AND INTERNAL WIRING**		**P**
1.11 (5.2.2)	Cables equal to EN 50525		P
	Replace table 5.1 – Supply cord		P
1.13 (12)	**ENDURANCE TESTS AND THERMAL TESTS**		**P**
1.13 (12.4.2c)	Thermal test (normal operation) see footnote c to table 12.2 relating to unsleeved fixed wiring		P
ZB	**ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)**		**N/A**
(3.3)	DK: power supply cords of class I luminaires with label		N/A
(4.5.1)	DK: socket-outlets		N/A
(5.2.1)	CY, DK, FI, GB: type of plug		N/A
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		**N/A**
(4 & 5)	FR: Shuttered socket-outlets 10/16A		N/A
	FR: Safety requirements for high buildings *(Decree of 30 December 2011 on safety regulations for the construction of high-rise buildings and their protection against fire and panic risks; Section VIII; Article GH 48, Lighting)* Glow-wire test for outer parts of luminaires:		N/A
	- 850°C for luminaires in stairways and horizontal travel paths		N/A

IEC60598_2_1H ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	- 650°C for indoor luminaires		N/A
	GB: Requirements according to United Kingdom Building Regulation		N/A

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict
Attachment No. 3	**LED modules for general lighting – Safety specifications Test according to IEC 62031:2018 (Second edition) & EN IEC 62031:2020. (clauses number between brackets refer to clause in IEC 61347-1)**		—
4	**GENERAL REQUIREMENTS**		—
4.2	Classification		—
	Built-in module .....:	Yes ☒ No ☐	—
	Independent module.....:	Yes ☒ No ☐	—
	Integral module .....:	Yes ☐ No ☒	—
4.6	Independent modules comply with requirements in IEC 60598-1:2014/AMD1:2017		N/A
4.8	Modules with integrated controlgear providing SELV comply with requirements according to IEC 61347-1:2015/AMD1:2017 clause L.5 to L.11.	(see Annex 1)	N/A
6	**MARKING**		—
6.5	**Marking of integral LED modules**		**P**
	- information in 6.2 a) to g) in data sheet, leaflet or website		P
7	**TERMINALS**		—
	Evaluated in final product		P
8 (9)	**EARTHING**		—
	Evaluated in final product		N/A
9 (10)	**PROTECTION AGAINST ACCIDENTAL CONTACT WITH LIVE PARTS**		—
- (10.1)	Controlgear protected against accidental contact with live parts		N/A
- (A2)	Voltage measured with 50 kΩ	(see Annex A)	P
- (A3)	Voltage > 35 V peak or > 60 V d.c. or protective impendance device	(see Annex A)	N/A
10 (11)	**MOISTURE RESISTANCE AND INSULATION**		—
	Evaluated in final product		P

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict

11 (12)	**ELECTRICAL STRENGTH**		—
	Immediately after clause 11 electric strength test for 1 min		P
	Basic insulation for SELV, test voltage 500 V	Refer to main report subclause 1.15 (10.2.2)	P
	Working voltage ≤ 50 V, test voltage 500 V		N/A
	Working voltage > 50 V ≤ 1000 V, test voltage (V):		N/A
	Basic insulation, 2U + 1000 V		N/A
	Supplementary insulation, 2U + 1000 V		N/A
	Double or reinforced insulation, 4U + 2000 V		N/A
	No flashover or breakdown		P
	Solid or thin sheet insulation for double or reinforced insulation fulfil the requirements in Annex N in IEC 61347-1		N/A

12 (14)	**FAULT CONDITIONS**		—
- (14.1)	When operated under fault conditions the controlgear:		P
	- does not emit flames or molten material		P
	- does not produce flammable gases		P
	- protection against accidental contact not impaired		P
	Thermally protected controlgear does not exceed the marked temperature value		P
	Fault conditions: capacitors, resistors or inductors without proof of compliance with relevant specifications have been short-circuited or disconnected	(see appended table)	N/A
- (14.2)	Short-circuit of creepage distances and clearances if less than specified in clause 16 in Part 1 (after any reduction in 14.2 - 14.5)	(see appended table)	N/A
- (14.3)	Short-circuit or interruption of semiconductor devices	(see appended table)	P
- (14.4)	Short-circuit across insulation consisting of lacquer, enamel or textile	(see appended table)	N/A
- (14.5)	Short-circuit across electrolytic capacitors	(see appended table)	N/A
	Short-circuit or interruption of SPDs	(see appended table)	N/A
- (14.6)	After the tests has been carried out on three samples:		P
	The insulation resistance ≥ 1 MΩ .....:	>1,3MΩ	P
	No flammable gases		P

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict
	No accessible parts have become live		P
	During the tests, a five-layer tissue paper, where the test specimen is wrapped, does not ignite		N/A
- (14.7)*	Relevant fault condition tests with high-power a.c. supply and in turn to a d.c. supply		—
12.2	**Overpower condition**		**P**
	Module withstands overpower condition >15 min.		P
	Module with automatic protective device or power limiter, test performed 15 min. at limit.		N/A
	No fire, smoke or flammable gas is produced		P
	Molten material does not ignite tissue paper, spread below the module		N/A
14 (15)	**CONSTRUCTION**		—
- (15.1)	**Wood, cotton, silk, paper and similar fibrous material**		**P**
	Wood, cotton, silk, paper and similar fibrous material not used as insulation		P
- (15.2)	**Printed circuits**		**N/A**
	Printed circuits used as internal connections complies with clause 14		N/A
15 (16)	**CREEPAGE DISTANCES AND CLEARANCES**		—
	Evaluated in final product		P
16 (17)	**SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS**		—
	Screws, current-carrying parts and connections in compliance with IEC 60598-1 (clause numbers between parentheses refer to IEC 60598-1)		—
	Evaluated in final product		—
17 (18)	**RESISTANCE TO HEAT, FIRE AND TRACKING**		—
- (18.2)	Test of printed boards ..... :	See Test Table 17 (18.2)	N/A
18	**RESISTANCE TO CORROSION**		—
	Comply with requirements according 4.18 of IEC 60598-1		N/A

* The tests marked with * are not enshrined by ENAC accreditation.

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict

20	**HEAT MANAGEMENT**		—
20.1	**General**		**N/A**
	Fulfil clause 20 if replaceable LED module and when heat conducting thermal interface is needed.		N/A
20.2	**Thermal interface material**		**N/A**
	Thermal interface material delivered with the module if necessary		N/A
20.3	**Heat protection**		**N/A**
	Not impair safety when operated under poor heat-conduction conditions according Annex D		N/A

21	**PHOTOBIOLOGICAL SAFETY**		—
21.1	**UV radiation**		**N/A**
	Luminous radiation not exceed 2mW/klm		N/A
21.2	**Blue light hazard**		**P**
	Assessed according to IEC TR 62778	RG1 (KFC2A25N32ABS + KPRXX05XXXXBS) (KTB2A25D32ABS + KPRXX05XXXXBS) RG2 1450lux (KDT1A10D33DBS + KPRXX05XXXXBS) (KFC4A40D32ABS + KPRXX05XXXXBS) (KBLPA04D39ABS + KPRXX05XXXXBS) (KBLUA04D39ABS + KPRXX05XXXXBS)	P
21.3	**Infrared radiation**		**N/A**
	Requirements for infrared radiation when required		N/A

A	**ANNEX A - TESTS**		—
	All tests performed in accordance with the advice given in Annex H of IEC 61347-1, if applicable		P

12 (14)	**TABLE: tests of fault conditions**	—
Part	Simulated fault	Hazard
LED3 (LD3)	Open circuit (KDT1A10D33DBS + KPRXX05XXXXBS)	~~YES~~ / NO
LED3 (LD3)	Short circuit (KDT1A10D33DBS + KPRXX05XXXXBS)	~~YES~~ / NO
LED	Open circuit (KFC4A40D32ABS + KPRXX05XXXXBS)	~~YES~~ / NO

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict

LED	Short circuit (KFC4A40D32ABS + KPRXX05XXXXBS)	~~YES~~ / NO
LED2 (LD2)	Open circuit (KBLPA04D39ABS + KPRXX05XXXXBS)	~~YES~~ / NO
LED2 (LD2)	Short circuit (KBLPA04D39ABS + KPRXX05XXXXBS)	~~YES~~ / NO
LED2 (LD2)	Open circuit (KBLUA04D39ABS + KPRXX05XXXXBS)	~~YES~~ / NO
LED2 (LD2)	Short circuit (KBLUA04D39ABS + KPRXX05XXXXBS)	~~YES~~ / NO

17 (18.2)	**TABLE: Test of printed boards**				**N/A**
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (s)	Ignition of specified layer Yes/No	Duration of burning (s)	Verdict
Supplementary information:					

(A)	**ANNEX A - TEST TO ESTABLISH WHETHER A CONDUCTIVE PART IS A LIVE PART WHICH MAY CAUSE AN ELECTRIC SHOCK**		—
(A.1)	Comply with A.2 or A.3		P
(A.2)	Voltage ≤ 35 V peak or ≤ 60 Vd.c ..... :	0V DC; 8,3V AC (KDT1A10D33DBS + KPRXX05XXXXBS) 0V DC; 5,7V AC (KFC4A40D32ABS + KPRXX05XXXXBS) 0V DC; 2,4V AC (KFC2A25N32ABS + KPRXX05XXXXBS) 0V DC: 2,3V AC (KTB2A25D32ABS + KPRXX05XXXXBS) 0V DC: 2,4V AC (KBLPA04D39ABS + KPRXX05XXXXBS) 0V DC; 2,1V AC (KBLUA04D39ABS + KPRXX05XXXXBS)	P
(A.3)	If voltage > 35 V peak or > 60 Vd.c. or protective impedance device; touch current does not exceed 0,7 mA (peak) or 2 mAd.c. ..... :		N/A
	Comply with annex G of IEC 60598-1		P

ANNEX 1	**LED MODULES WITH INTEGRAL CONTROLGEAR PROVIDING SELV**	—
	Evaluated in final product	N/A