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# LICENCE

to use the European Mark



Licence No. **80145-005**

Date of issue: Wien, 2015 07 17  
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OVE the Austrian Electrotechnical Association as signatory to the **"Agreement on the use of a commonly agreed Mark of Conformity for certain electrical equipment complying with European Standards"** hereby grants the right to label the products mentioned hereunder and listed in the Annex with the Mark(s) shown above to the following company

Licenceholder: **Schröder SA**  
Rue de Lusambo 67  
1190 Brussels  
Belgium

Product: **Luminaire for road and street lighting**

Trade Mark: 

Series/Type: **KAZU CI. I**

Basis for this given right is the conformity of the products with the requirements of the relevant Standard(s) as listed in the Annex and the fulfilment of articles 8 and 9 of the ENEC-Agreement by the manufacturer. This licence refers to the tested specimen and to all products manufactured strictly identical to the submitted one.

This licence has been issued under the presumption and conditional on the fact that the licensee holds all necessary legal rights with regard to the product presented for testing and certification.

**Austrian Electrotechnical Association**  
Head of Testing & Certification

Digitally signed by W. Martin  
Email=w.martin@ove.at

Dipl.-Ing. W. Martin



## **OVE Testing & Certification**

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<i>Hersteller</i> <i>Manufacturer</i>	<b>Tungsrám-Schröder Világítási Berendezések Zrt Tópart 2. 2084 Pilisszentiván Hungary</b>
<i>Fertigungsstätte(n)</i> <i>Factory location(s)</i>	<b>Tungsrám-Schröder Világítási Berendezések Zrt Tópart 2. 2084 Pilisszentiván Hungary</b>
<i>Typenbezeichnung</i> <i>Type reference</i>	<b>Series KAZU CI. I See type list page 4/4 of Annex</b>
* <i>Prüfbericht</i> <i>Test Report</i>	<b>TGM-VA EE 36122 ECS, TGM-VA EE 36122a ECS, MA39-VFA-2015-0600.01</b>
* <i>Nationale Bestimmung(en)</i> <i>National Standard(s)</i>	<b>ÖVE/ÖNORM EN 60598-1:2015-11-01 ÖVE/ÖNORM EN 60598-2-3:2012-01-01</b>
<i>Europannorm(en)</i> <i>European Standard(s)</i>	<b>EN 60598-1:2015 EN 60598-2-3:2003 + A1:2011</b>
* <i>Ersatz für Zertifikat</i> <i>Superseded licence</i>	<b>80145-005 Rev. 01 dated 2015 08 04 Items modified are marked with an asterisk (*)</b>
<i>Anmerkung(en)</i> <i>Remark(s)</i>	--

<i>Nennspannung</i> <i>Rated voltage</i>	<b>AC 120-277 V or AC 220-240 V 50/60 Hz</b>
<i>Anzahl und Leistung der Lampen</i> <i>Rated wattage and number of lamps</i>	<b>Max. 82 W, max. 1000mA</b>
<i>Lampentyp(en)</i> <i>Lamp identification</i>	<b>LED Modules</b>
* <i>Schutzgrad</i> <i>Degree of protection</i>	<b>IP 66, IK09 with flat protector, IK10 with shaped protector</b>
<i>Netzanschluß</i> <i>Supply connection</i>	<b>Screw terminals of connector</b>
<i>Befestigungsfläche</i> <i>Supporting surface</i>	<b>Normally flammable surface</b>
<i>Schutzklasse</i> <i>Class of protection</i>	<b>Cl. I</b>
* <i>Beschreibung des Aufbaus</i> <i>Description of construction</i>	<b>Luminaire for road and street lighting for installation on a post top with LED driver and LED modules. Body is made of aluminium and flat or shaped protector is made of Polycarbonate.</b>
<i>Zusatzinformation</i> <i>Additional information</i>	<b>LED-Modules tested according to EN 62471:2008 and found within limits of risk group 1 (low risk). Risk group classification is also in accordance to IEC/TR 62778:20014-06 (ED. 2.0), Technical Report, "Application of IEC 62471 for the assessment of blue light hazard to light sources and luminaires".</b>

<i>Bauteil Component</i>	<i>Code Code</i>	<i>Hersteller Manufacturer</i>	<i>Typenbezeichnung Type Reference</i>	<i>Konformitätszeichen Mark(s) of conformity</i>
<i>LED converter</i>	<b>B</b>	<b>LG Innotek</b>	<b>LLP 40W 0,7A; (PISE-A040A) Vout: DC 38-77V; tc:80°C</b>	<b>ENEC 18</b>
	<b>B</b>	<b>LG Innotek</b>	<b>LLP 40W 350-700 mA Prog; (PISE-A040D); tc:80°C</b>	<b>ENEC 18</b>
	<b>B</b>	<b>LG Innotek</b>	<b>LLP 55W 1A; (PISE-A55A) Vout: DC 44-55V; tc:80°C</b>	<b>ENEC 18</b>
	<b>B</b>	<b>LG Innotek</b>	<b>LLP 110W 1A; (PISE-A110A) Vout: DC 68-110V; tc:80°C</b>	<b>ENEC 18</b>
	<b>B</b>	<b>Philips</b>	<b>XITANIUM 40W 0,7A; Prog+GL-JsXt Vout: DC 29-57V; tc:80°C</b>	<b>ENEC 18</b>
<i>LED Modules</i>	<b>C</b>	<b>Zollner Elektronik AG</b>	<b>7001081-001, 1000mA, 12V; AG</b>	<b>tested together with the appliance TGM-VA EE 36122 SFT-2</b>
<i>Terminal</i>	<b>B</b>	<b>Adels-Contact</b>	<b>900-7..., 900-08.. 450V; 1,0-2,5mm<sup>2</sup>; T85°C</b>	<b>ENEC 10</b>
	<b>B</b>	<b>Adels-Contact</b>	<b>LK980... 450V; 0,75-2,5mm<sup>2</sup>; T85°C</b>	<b>ENEC 10</b>
<i>Connector</i>	<b>B</b>	<b>Wieland Electric GmbH</b>	<b>ST18/3... 250/400V; 0,5-2,5mm<sup>2</sup>; 16A</b>	<b>VDE</b>
<i>Internal wiring</i>	<b>C</b>	<b>Colosio</b>	<b>SD... 450/750V; 5kV; T180°C 0,75-1,5 mm<sup>2</sup></b>	<b>tested together with the appliance</b>
	<b>C</b>	<b>Helukabel</b>	<b>LiYv 300V; AC 2,5kV; 0,5-1,5 mm<sup>2</sup> T90°C</b>	<b>tested together with the appliance</b>
	<b>A</b>	<b>XBK-Kabel</b>	<b>H05V2-K, H07V2-K 300V/500V; AC 2,5kV 0,5-1,5 mm<sup>2</sup>; T90°C</b>	<b>VDE</b>
	<b>A</b>	<b>ELPAR</b>	<b>H07RN-F 3G1,5 mm<sup>2</sup></b>	<b>VDE</b>
<b>A</b>	The component is replaceable with another one, also certified, with equivalent characteristics.			
<b>B</b>	The component is replaceable if authorised by the test house.			
<b>C</b>	Integrated component tested together with the appliance.			
<b>D</b>	Alternative component.			

Type list KAZU Cl. I

	<i>Trademark</i>	<i>LED Driver</i>	<i>Type</i>	<i>Max. LED current [mA]</i>	<i>Max.luminaire power [W]</i>
	<b>Schröder</b>	<b>Philips 40W</b>	<b>KAZU 12 LED ... - ... W - ... klm</b>	<b>700</b>	<b>29</b>
	<b>Schröder</b>	<b>LG 55W</b>	<b>KAZU 16 LED ... - ... W - ... klm</b>	<b>1000</b>	<b>56</b>
	<b>Schröder</b>	<b>LG 110W</b>	<b>KAZU 24 LED ... - ... W - ... klm</b>	<b>1000</b>	<b>82</b>