

EC-Declaration of Conformity



Document number: 2012/02 LMS 1/4
Manufacturer or representative: OSRAM AG
Address: Hellabrunner Straße 1
81543 München
Germany
Brand name or trade mark: OSRAM
Product type: Light control unit
Product designation: DALI MCU
 See attached list

The designated product(s) is (are) in conformity with the provisions of the following European Directives.

- 2006/95/EC** Directive of the European Parliament and of the Council of 12 December 2006 on the harmonisation of the laws of Member States relating to electrical equipment designed for use within certain voltage limits and amendments
- 2004/108/EC** Directive of the European Parliament and of the Council of 15 September 2004 on the approximation of the laws of the Member States relating to electromagnetic compatibility and amendments
- 1999/5/EC** Directive of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity and amendments
- 2009/125/EC** Directive of the European Parliament and of the Council of 21 October 2009 establishing a framework for the setting of ecodesign requirements for energy-related products and amendments
- 244/2009** Commission Regulation (EC) implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for non-directional household lamps and amendments
- 245/2009** Commission Regulation (EC) implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for fluorescent lamps without integrated ballast, for high intensity discharge lamps, and for ballasts and luminaires able to operate such lamps, and repealing Directive 2000/55/EC of the European Parliament and of the Council and amendments

Further information regarding compliance with these Directives is given in the annex which constitutes a part of this declaration.

Last two digits of the year in which the CE marking was affixed: 12

Place and date of signatures: München 16.02.2012

Signatures: **PL QM-TLS B&LMS**
Hr. Veser

Quality Manager

PL QM-TLS VAB
Hr. Schemmel

VAB Manager

Names : Alwin Veser Bernhard Schemmel

This declaration of conformity is issued under the sole responsibility of the manufacturer. It certifies compliance with the indicated Directives, but implies no warranty of properties.

EC-Declaration of Conformity

Annex

Document number: 2012/02 LMS

The conformity of the designated product(s) with the provisions of the European Directive **2006/95/EC** is given by the compliance with the following European Standard(s). If not elsewhere/otherwise indicated the edition/amendment as referenced below applies.

- | | | |
|-------------------------------------|---|---|
| <input type="checkbox"/> | EN 61347-1: 2008 + A1:2011 | Lamp controlgear — Part 1: General and safety requirements |
| <input type="checkbox"/> | EN 61347-2-1: 2009 | Lamp controlgear – Part 2-1: Particular requirements for starting devices (other than glow starters) |
| <input type="checkbox"/> | EN 61347-2-2: 2001 + A1:2006 + A2:2006 | Lamp controlgear — Part 2-2: Particular requirements for d. c. or a. c. supplied electronic step-down convertors for filament lamps |
| <input type="checkbox"/> | EN 61347-2-3: 2001+A1:2004 + A2:2006 | Lamp controlgear — Part 2-3: Particular requirements for a. c. supplied electronic ballasts for fluorescent lamps |
| <input type="checkbox"/> | EN 61347-2-4: 2001 | Lamp controlgear - Part 2-4: Particular requirements for d.c. supplied electronic ballasts for general lighting |
| <input type="checkbox"/> | EN 61347-2-5: 2001 | Lamp controlgear - Part 2-5: Particular requirements for d.c. supplied electronic ballasts for public transport lighting |
| <input type="checkbox"/> | EN 61347-2-6: 2001 | Lamp controlgear - Part 2-6: Particular requirements for d.c. supplied electronic ballasts for aircraft lighting |
| <input type="checkbox"/> | EN 61347-2-7: 2006 | Lamp controlgear - Part 2-7: Particular requirements for d.c. supplied electronic ballasts for emergency lighting |
| <input type="checkbox"/> | EN 61347-2-8: 2001 + A1:2006 | Lamp controlgear - Part 2-8: Particular requirements for ballasts for fluorescent lamps |
| <input type="checkbox"/> | EN 61347-2-9: 2001 + A1:2003 + A2:2006 | Lamp controlgear - Part 2-9: Particular requirements for ballasts for discharge lamps (excluding fluorescent lamps) |
| <input type="checkbox"/> | EN 61347-2-10: 2001 + A1:2009 | Lamp controlgear - Part 2-10: Particular requirements for electronic invertors and convertors for high-frequency operation of cold start tubular discharge lamps (neon tubes) |
| <input type="checkbox"/> | EN 61347-2-11: 2001 | Lamp controlgear - Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires |
| <input type="checkbox"/> | EN 61347-2-12: 2005 + A1:2010 | Lamp controlgear — Part 2-12: Particular requirements for d. c. or a. c. supplied electronic ballasts for discharge lamps (excluding fluorescent lamps) |
| <input type="checkbox"/> | EN 61347-2-13: 2006 | Lamp controlgear — Part 2-13: Particular requirements for d. c. or a. c. supplied electronic controlgear for LED modules |
| <input type="checkbox"/> | EN 60968: 1990 + A1:1993 + A2:1999 | Self-ballasted lamps for general lighting services — Safety requirements |
| <input checked="" type="checkbox"/> | EN 60669-2-1: 2004 + A1:2009 + A12:2010 | Switches for household and similar fixed electrical installations – Part 2-1: Particular requirements – Electronic switches |
| <input type="checkbox"/> | EN 61549: 2003 + A1:2005 + A2:2010 | Miscellaneous lamps |
| <input type="checkbox"/> | EN 62031: 2008 | LED modules for general lighting — Safety specifications |
| <input type="checkbox"/> | EN 62035: 2000 + A1:2003 | Discharge lamps (excluding fluorescent lamps) — Safety specifications |
| <input type="checkbox"/> | EN 62471: 2008 | Photobiological safety of lamps and lamp systems |

EC-Declaration of Conformity

Annex

Document number: 2012/02 LMS

- IEC/TR 62471-2:** 2009 Photobiological safety of lamps and lamp systems — Part 2: Guidance on manufacturing requirements relating to non-laser optical radiation safety
- EN 62493:** 2010 Assessment of lighting equipment related to human exposure to electromagnetic fields
- EN 62532:** 2011 Fluorescent induction lamps — Safety specifications
- EN 62560:** XXXX Self-ballasted LED-lamps for general lighting services by voltage > 50 V — Safety specifications

The conformity of the designated product(s) with the provisions of the European Directive **2004/108/EC** is given by the compliance with the following European Standard(s). If not elsewhere/otherwise indicated the edition/amendment as referenced below applies.

- EN 55015:** 2006 + A1:2007 + A2:2009 Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment (according CDN measurement procedure)
- EN 61000-3-2:** 2006 + A1:2009 + A2:2009 Electromagnetic compatibility (EMC) — Part 3-2: Limits — Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
- EN 61000-3-3:** 2008 Electromagnetic compatibility (EMC) — Part 3-3: Limits — Limitation of voltage changes, voltage fluctuations and flicker in public low voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subjected to conditional connection
- EN 61547:** 2009 Equipment for general lighting purposes — EMC immunity requirements
- ETSI EN 300 220-1 V2.1.1:** Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW; Part 1: Technical characteristics and test methods
- ETSI EN 300 220-2 V2.1.2:** Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW; Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive
- ETSI EN 301 489-1 V1.8.1** Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
- ETSI EN 301 489-3 V1.4.1** Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz

The conformity of the designated product(s) with the provisions of the European Directive **2009/125/EC** is given by the compliance with the following European Standard(s):

- EN 50294:** 1998 + A1:2001 + A2:2003 Measurement method of total input power of ballast-lamp circuits

EC-Declaration of Conformity

Attached list

Document number: 2012/02 LMS

DALI MCU
DALI MCU WOC
HF DIM P MCU

Digital DALI potentiometer
DALI Poti without cover
1-10V Potentiometer