

2020 / 9C1-4011819-EN-00 Document number: LEDVANCE GmbH Manufacturer or representative: Address: Parkring 29-33 85748 Garching Germany Brand name or trade mark: **LEDVANCE** Product type: controlgear Product designation: Flash-Wave-II DALI Driver See attached list The designated product(s) is (are) in conformity with the relevant Union harmonisation legislation: 2014/35/EU Directive of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on and amendments the market of electrical equipment designed for use within certain voltage limits 2014/30/EU Directive of the European Parliament and of the Council of 26 February 2014 on the \boxtimes harmonisation of the laws of the Member States relating to electromagnetic and amendments compatibility 2009/125/EC Directive of the European Parliament and of the Council of 21 October 2009 \boxtimes establishing a framework for the setting of ecodesign requirements for energyand amendments, incl. related products 2019/2020, Art. 7 Article 7 of Commission Regulation (EU) 2019/2020 of 1 October 2019 laying down ecodesign requirements for light sources and separate control gears pursuant to Directive 2009/125/EC of the European Parliament and of the Council 244/2009 Commission Regulation (EC) implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for nonand amendments directional household lamps Commission Regulation (EC) implementing Directive 2009/125/EC of the European 245/2009 Parliament and of the Council with regard to ecodesign requirements for fluorescent and amendments lamps without integrated ballast, for high intensity discharge lamps, and for ballasts and luminaires able to operate such lamps \boxtimes 1194/2012 Commission Regulation (EU) No 1194/2012 of 12 December 2012 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to and amendments ecodesign requirements for directional lamps, light emitting diode lamps and related 2011/65/EU Directive of the European Parliament and of the Council of 8 June 2011 on the \boxtimes restriction of the use of certain hazardous substances in electrical and electronic and amendments equipment 2014/53EU Directive of the European Parliament and of the Council of 16 April 2014 on the harmonisation of the laws of the Member States relating to the making available on and amendments the market of radio equipment and repealing Directive 1999/5/EC Last two digits of the year in which the CE marking was affixed: 20 Place and date of signatures: Jun.29, 2029 Signatures: Quality Management Names: Scheyer, Yannick Shufen Chen

Customer service contact: LEDVANCE GmbH, Steinerne Furt 62, 86167 Augsburg, Deutschland

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

EU Declaration of Conformity Annex

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The conformity of the designated product(s) with the provisions of the European Low Voltage Directive 2014/35/EU is given by the compliance with the following European Standard(s) or other specifications. If not elsewhere/otherwise indicated the edition/amendment as referenced below applies.

-1.1	
EN 60155: 1995 + A1:1995 + A2:2007	Glow-starters for fluorescent lamps
EN 60432-1: 2000 + A1:2005 + A2:2012	Incandescent lamps — Safety specifications — Part 1: Tungsten filament lamps for domestic and similar general lighting purposes
EN 60432-2: 2000 + A1:2005 + A2:2012	Incandescent lamps — Safety specifications — Part 2: Tungsten halogen lamps for domestic and similar general lighting purposes
EN 60432-3: 2013	Incandescent lamps — Safety specifications — Part 3: Tungsten halogen lamps (non-vehicle)
EN 60598-1: 2015 + A1:2018	Luminaires — Part 1: General requirements and tests
EN 60598-2-1: 1989	Luminaires — Part 2-1: Particular requirements — Fixed general purpose luminaires
EN 60598-2-2: 2012	Luminaires — Part 2-2: Particular requirements — Recessed luminaires
EN 60598-2-3: 2003 + A1:2011	Luminaires — Part 2-3: Particular requirements — Luminaires for road and street lighting
EN 60598-2-4: 2018	Luminaires — Part 2-4: Particular requirements — Portable general purpose luminaires
EN 60598-2-5: 2015	Luminaires — Part 2-5: Particular requirements — Floodlights
EN 60598-2-6: 1994 + A1:1997	Luminaires — Part 2-6: Particular requirements — Luminaires with built-in transformers for filament lamps
EN 60598-2-7: 1989 + A2:1996 + A13:1997	Luminaires — Part 2-7: Particular requirements — Portable luminaires for garden use
EN 60598-2-8: 2013	Luminaires — Part 2-8 : Particular requirements — Handlamps
EN 60598-2-10: 2003	Luminaires — Part 2-10: Particular requirements — Portable luminaires for children
EN 60598-2-12: 2013	Luminaires — Part 2-12: Particular requirements — Mains socket-outlet mounted nightlights
EN 60598-2-13: 2006 + A1 2012	Luminaires — Part 2-13: Particular requirements — Ground recessed luminaires
EN 60598-2-20: 2015	Luminaires — Part 2-20: Particular requirements — Lighting chains
EN 60598-2-22: 2014	Luminaires — Part 2-22: Particular requirements — Luminaires for emergency lighting
EN 60598-2-24: 2013	Luminaires - Part 2-24: Particular requirements - Luminaires with limited surface temperatures
EN 60950-1: 2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013	Information technology equipment – Safety – Part 1: General requirements
EN 60968: 2015	Self-ballasted lamps for general lighting services — Safety requirements
EN 61195: 1999 + A1:2013 + A2:2015	Double-capped fluorescent lamps — Safety specifications

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	EN 61199: 2011 + A2:2015	Single-capped fluorescent lamps — Safety specifications
\boxtimes	EN 61347-1: 2015	Lamp controlgear — Part 1: General and safety requirements
	EN 61347-2-1: 2001 + A1:2006 + A2:2014	Lamp controlgear — Part 2-1: Particular requirements for starting devices (other than glow starters)
	EN 61347-2-2: 2012	Lamp controlgear — Part 2-2: Particular requirements for d. c. or a. c. supplied electronic step-down convertors for filament lamps
	EN 61347-2-3: 2011	Lamp controlgear — Part 2-3: Particular requirements for a. c. and/or d. c. supplied electronic ballasts for fluorescent lamps
	EN 61347-2-7: 2012	Lamp controlgear — Part 2-7: Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained)
	EN 61347-2-8: 2001 + A1:2006	Lamp controlgear — Part 2-8: Particular requirements for ballasts for fluorescent lamps
	EN 61347-2-9: 2013	Lamp controlgear — Part 2-9: Particular requirements for ballasts for discharge lamps (excluding fluorescent lamps)
	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)
	EN 61347-2-11: 2001	Lamp controlgear — Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires
	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)
\boxtimes	EN 61347-2-13: 2014/A1:2017	Lamp controlgear — Part 2-13: Particular requirements for d. c. or a. c. supplied electronic controlgear for LED modules
	EN 61549: 2003 + A1:2005 + A2:2010 + A3:2012	Miscellaneous lamps
	EN 62031: 2008 + A1:2013 + A2:2015	LED modules for general lighting — Safety specifications
	EN 62034: 2012	Automatic test systems for battery powered emergency escape lighting
	EN 62035: 2014	Discharge lamps (excluding fluorescent lamps) — Safety specifications
	EN 62368-1: 2014	Audio/video, information and communication technology equipment – Part 1: Safety requirements

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\boxtimes	EN 62493: 2015	Assessment of lighting equipment related to human exposure to electromagnetic fields
	EN 62532: 2011	Fluorescent induction lamps — Safety specifications
	EN 62560: 2012 + A1:2015	Self-ballasted LED-lamps for general lighting services by voltage > 50 V — Safety specifications
	EN 62838: 2016	LEDsi lamps for general lighting services with supply voltages not exceeding 50 V a.c. r.m.s. or 120 V ripple free d.c Safety specifications Consumer goods with a voltage below 50 V are dealt with by the General Product Safety Directive (GPSD) 2001/95/EC
	EN 60669-2-1: 2004 + A1:2009 + A12:2010	Switches for household and similar fixed electrical installations - Part 2-1: Particular requirements - Electronic switches (IEC 60669-2-1:2002, modified) / Corrected and reprinted in 2007-12
	EN 62471: 2008	Photobiological safety of lamps and lamp systems
	EN 62733: 2015	Programmable components in electronic lamp controlgear
	EN 62776: 2015	Double-capped LED lamps designed to retrofit linear fluorescent lamps - Safety specifications

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The conformity of the designated product(s) with the provisions of the European **EMC Directive**, **2014/30/EU** is given by the compliance with the following European Standard(s) or other specifications. If not elsewhere/otherwise indicated the edition/amendment as referenced below applies.

	EN 55015 : 2019	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
	EN 61000-3-2: 2019	Electromagnetic compatibility (EMC) — Part 3-2: Limits — Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
	EN 61000-3-3: 2013/A1:2019	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
\boxtimes	EN 61547: 2009	Equipment for general lighting purposes — EMC immunity requirements
	EN 50498: 2010	Electromagnetic compatibility (EMC) –
		Product family standard for aftermarket electronic equipment in vehicles

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The conformity of the designated product(s) with the provisions of the European eco design (ERP) Directive 2009/125/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 62442-1: Energy performance of lamp controlgear - Part 1: Controlgear for fluorescent 2018 lamps - Method of measurement to determine the total input power of controlgear circuits and the efficiency of the controlgear Energy performance of lamp controlgear -EN IEC 62442-2: 2019 Part 2: Controlgear for high intensity discharge lamps (excluding fluorescent lamps) - Method of measurement to determine the efficiency of the controlgear Energy performance of lamp controlgear -EN IEC 62442-3: Part 3: Controlgear for halogen lamps and LED modules - Method of 2019 measurement to determine the efficiency of the controlgear

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The conformity of the designated product(s) with the provisions of the European Directive **2011/65/EU (RoHS)** is given by the compliance with the following European Standard(s) or other specifications. If not elsewhere/otherwise indicated the edition/amendment as referenced below applies.

EN 50581: Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

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The conformity of the designated product(s) with the provisions of the European Radio Equipment Directive 2014/53EU is given by the compliance with the following European Standard(s). If not elsewhere/otherwise indicated the edition/amendment as referenced below applies. EN 300 328 V2.1.1 Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU EN 300 440 Short Range Devices (SRD); Radio equipment to be used in the 1GHz to 40GHz frequency range; Harmonised Standard covering the essential requirements of V2.1.1&V2.2. article 3.2 of Directive 2014/53/EU **Draft ETSI EN 301 489-1** Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard covering the V2.2.0 essential requirements of article 3.1(b) of Directive 2014/53/EU and the essential requirements of article 6 of Directive 2014/30/EU Draft EN 301 489-3 Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on V2.1.1 frequencies between 9 kHz and 246 GHz: Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU **Draft ETSI EN 301 489-17** Electro Magnetic Compatibility (EMC) standard for radio equipment and services; V3.2.0 Part 17: Specific conditions for Broadband Data Transmission Systems: Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU

MHz to 300 GHz)

Assessment of the compliance of low-power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10

7/8

EN 62479: 2010

EU Declaration of Conformity Attached list

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Product list

AC23431	DR DALI-PFM-26/220-240/700
AC23432	DR DALI-PFM-44/220-240/1050
AC23433	DR DALI-PFM-60/220-240/1A4
AC25717	DR AY DALI-PFM-26/44-CLAMP DUO
AC25718	DR AY DALI-PFM-60-CLAMP
AC23434	DR DALI-SUP-45/220-240/24
AC23435	DR DALI-SUP-80/220-240/24
AC23436	DR DALI-SUP-150/220-240/24