

To: Whom it may concern

Signify Netherlands B.V.  
High Tech Campus 48  
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The Netherlands

CC:

Ref: 2019G036

Subject: EU Conformity statement Xitanium LED drivers  
with NFC programming

Date: 2019-04-09

## EU Conformity Statement

<b>Product Range:</b>	<b>NAME: Xitanium drivers with NFC</b>
<b>Product Code:</b>	See for Unique product ID number of all products under the family described above the Annex: Specification off the products

With these terms it is declared that the designated products are in conformity with the following Union harmonization legislation, LVD 2014/35/EU, EMC-D, 2414/30/EU, RE-D 2014/53/EU, ErP 2009/125/EC and RoHS 2011/65/EU and with the applicable requirements of the harmonized standards and technical specifications:

### Low Voltage Directive (LVD), 2014/35/EU

- EN 61347-1:2008+A1:2011+A2:2013
- EN 61347-2-13:2014

### Electromagnetic compatibility Directive (EMC), 2014/30/EU

- EN 55015:2013+A1:2015
- EN 61000-3-2:2014
- EN 61000-3-3:2013
- EN 61547:2009

### Radio Equipment Directive (RE-D), 2014/53/EU

- ETSI EN 301-489-1 v1.9.2
- ETSI EN 301 489-3 v1.6.1
- ETSI EN 300 330-1 v2.1.1

### EcoDesign requirements for energy-related products Directive (ErP), 2009/125/EC and applicable Implementing Measures

- Implementing Measure EU/1194/2012

### Restriction of the use of certain Hazardous Substances in electrical and electronic equipment Directive (RoHS), 2011/65/EU

- EN 50581:2012

2019-04-09

Ms C Sweegers  
Regulatory Affairs Manager LED Electronics

## Annex A: Specification of products

Product ID (12nc)	Product description
929000993106	Xitanium 35W 0.08-0.35A 150V TD16 230V
929000993206	Xitanium 60W 0.08-0.35A 300V TD16 230V
929001503606	XITANIUM 36W 0.3-1A 54V TD 230V
929001503706	Xitanium 75W 0.7-2.0A 54V TD 230V
929001505006	Xitanium 75W 0.7-2.0A 54V SR 230V
929001506406	Xitanium 35W 0.08-0.35A 150V S 230V
929001506506	Xitanium 60W 0.08-0.35A 300V S 230V
929001506606	Xitanium 100W 0.15-0.5A 300V iXt 230V
929001506706	Xitanium 150W 0.2-0.7A 300V iXt 230V
929001509106	Xitanium 60W 0.08-0.35A 220V S 230V
929001516306	Xitanium 36W 0.3-1A_54V SR 230V
929001516406	Xitanium 100W 0.15-0.5A 300V iXt TD 230V
929001516506	Xitanium 150W 0.2-0.7A 300V iXt TD 230V
929001529506	Xitanium 100W 0.25-0.7A 220V S 230V
929001540406	Xitanium 35W 0.08-0.35A 150V SR 230V
929001540506	Xitanium 60W 0.08-0.35A 220V SR 230V
929001540606	Xitanium 60W 0.08-0.35A 300V SR 230V
929001540706	Xitanium 100W 0.25-0.7A 220V SR 230V
929001540806	Xitanium 100W 0.15-0.5A 300V SR 230V iXt
929001540906	Xitanium 150W 0.2-0.7A 300V SR 230V iXt
929001547206	Xitanium 60W 0.08-0.35A 220V TD16 230V
929001547306	Xitanium 100W 0.25-0.7A 220V TD16 230V
929001553406	XI 100W 0.15-0.5A 300V iXt TDCL 230V
929001553506	XI 150W 0.2-0.7A 300V iXt TDCL 230V
929001553706	XI 60W 0.08-0.35A 300V TD16CL 230V
929001557306	Xitanium 35W 0.08-0.35A 150V S/16 230V
929001557406	Xitanium 60W 0.08-0.35A 300V S/16 230V
929001557506	Xitanium 60W 0.08-0.35A 220V S/16 230V
929001571406	Xitanium 36W 0.3-1.05A 54V S 230V
929001571506	Xitanium 65W 0.5-1.4A 54V S 230V
929001608406	Xitanium 300W 0.5-1.4A 300V iXt TD 230V
929001616006	XI 60W 0.08-0.35A 300V TD16CL 230V
929001627606	Xitanium 60W 0.15-0.50A 220V TD11 230V
929001627706	Xitanium 35W 0.08-0.35A 220V TD11 230V
929001685606	Xitanium 100W 0.15-0.5A 300V iXt TD 230V
929001685706	Xitanium 150W 0.2-0.7A 300V iXt TD 230V
929001616106	XI 100W 0.15-0.5A 300V iXt TDCL 230V
929001627406	Xitanium 150W 0.2-0.7A 300V iXt TDCL 230
929000991706	Xitanium 20W WH 0.15-0.5A 54V TD/Is 230V
929000991806	Xitanium 50W WH 0.7-1.5A 54V TD/Is 230V
929000969906	Xitanium 36W WH 0.3-1A 54V TD/Is 230V
929001404306	Xitanium 36W LH 0.3-1A 48V I 230V
929000934706	Xitanium 50W LH 0.7-1.5A 48V I 230V
929000941306	Xitanium 20W LH 0.15-0.5A 48V Is 230V
929001415006	Xitanium 20W/m 0.15-0.5A 54V 230V
929001415106	Xitanium 36W/m 0.3-1.05A 54V 230V
929001415206	Xitanium 43W/m 0.7-1.2A 54V 230V
929001415306	Xitanium 50W/m 0.7-1.5A 54V 230V
929001413906	Xitanium 20W WH 0.15-0.5A 54V Is
929001414006	Xitanium 36W WH 0.3-1.05A 54V Is
929001416806	Xitanium 50W WH 0.7-1.5A 54V Is
929001558606	Xitanium 40W/t 0.3-1A 54V TD 230V PCBA

929001423606	Xitanium 36W/m 0.3-1.05A 54V OffDiag 230V
929001471006	Xitanium 20W WH 0.15-0.5A 54V Is G2
929001471106	Xitanium 36W WH 0.3-1.05A 54V Is G2
929001471206	Xitanium 50W WH 0.7-1.5A 54V Is G2
929001485906	Xitanium 20W/m 0.15-0.5A 54V 230V
929001486006	Xitanium 36W/m 0.3-1.05A 54V 230V
929001486106	Xitanium 43W/m 0.7-1.2A 54V 230V
929001485106	Xitanium 20W /m 0.15-0.5A 54V S TD 230V
929001485206	Xitanium 36W /m 0.3-1.05A 54V S TD 230V
929001649806	Xitanium 20W WH 0.15-0.5A 54V TD/Is CL 230V
929001649706	Xitanium 36W WH 0.3-1A 54V TD/Is CL 230V
929001649906	Xitanium 50W WH 0.7-1.5A 54V TD/Is CL 230V
929001613506	Xi SR 12W 0.2-0.7A SNEMP 230V C133 sXt
929001598306	Xi SR 22W 0.2-0.7A SNEMP 230V C133 sXt
929001573706	Xi SR 22W 0.3-1.0A SNEMP 230V C133 sXt
929001573506	Xi SR 40W 0.2-0.7A SNEMP 230V C133 sXt
929001573606	Xi SR 40W 0.3-1.0A SNEMP 230V C133 sXt
929001507706	Xi SR 75W 0.2-0.7A SNEMP 230V S240 sXt
929001507806	Xi SR 75W 0.3-1.0A SNEMP 230V S240 sXt
929001623206	Xi SR 75W 0.2-0.7A SNEMP 230V C150 sXt
929001623306	Xi SR 75W 0.3-1.0A SNEMP 230V C150 sXt
929001623406	Xi SR 110W 0.2-0.7A SNEMP 230V C150 sXt
929001623506	Xi SR 110W 0.3-1.0A SNEMP 230V C150 sXt
929001507506	Xi SR 150W 0.2-0.7A SNEMP 230V S240 sXt
929001507606	Xi SR 150W 0.3-1.0A SNEMP 230V S240 sXt
929001663106	Xi SR 165W 0.2-0.7A SNEMP 230V C170 sXt
929001663206	Xi SR 165W 0.3-1.0A SNEMP 230V C170 sXt
929001617706	Xi FP 22W 0.2-0.7A SNLDAE 230V C123 sXt
929001518506	Xi FP 22W 0.3-1.0A SNLDAE 230V C123 sXt
929001518606	Xi FP 40W 0.2-0.7A SNLDAE 230V C123 sXt
929001518706	Xi FP 40W 0.3-1.0A SNLDAE 230V C123 sXt
929001617806	Xi FP 22W 0.2-0.7A SNLDAE 230V S175 sXt
929000991206	Xi FP 22W 0.3-1.0A SNLDAE S175 230V sXt
929000989206	Xi FP 40W 0.2-0.7A SNLDAE S175 230V sXt
929000989306	Xi FP 40W 0.3-1.0A SNLDAE S175 230V sXt
929001644006	Xi FP 75W 0.2-0.7A SNLDAE 230V S240 sXt
929001644106	Xi FP 75W 0.3-1.0A SNLDAE 230V S240 sXt
929001644206	Xi FP 150W 0.2-0.7A SNLDAE 230V S240 sXt
929001644306	Xi FP 150W 0.3-1.0A SNLDAE 230V S240 sXt
929000962406	Xi FP 75W 0.2-0.7A SNLDAE 230V S240 sXt
929000962506	Xi FP 75W 0.3-1.0A SNLDAE 230V S240 sXt
929000962206	Xi FP 150W 0.2-0.7A SNLDAE 230V S240 sXt
929000962306	Xi FP 150W 0.3-1.0A SNLDAE 230V S240 sXt
929001408406	Xi FP 75W 0.2-0.7A SNLDAE 230V C133 sXt
929001408506	Xi FP 75W 0.3-1.0A SNLDAE 230V C133 sXt
929001408606	Xi FP 75W 1.0-1.5A SNLDAE 230V C133 sXt
929001639006	Xi FP 110W 0.2-0.7A SNLDAE 230V C133 sXt
929001639106	Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt
929001650006	Xi FP 100W 0.2-0.7A SNLDAE 230V C165 sXt
929001522006	Xi FP 100W 0.2-0.7A SNLDAE 230V C165 sXt
929000976206	Xi FP 165W 0.2-0.7A SNLDAE 230V C170 sXt
929000976306	Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt
929001408306	Xi FP 330W 2:0.2-0.7A SNDAE 230V C240 sXt
929001627006	Xi LP 22W 0.2-0.7A S1 230V C123 sXt
929001532306	Xi LP 22W 0.3-1.0A S1 230V C123 sXt
929001537106	Xi LP 40W 0.2-0.7A S1 230V C123 sXt

929001532406	Xi LP 40W 0.3-1.0A S1 230V C123 sXt
929001613606	Xi LP 22W 0.2-0.7A S1 230V S175 sXt
929001613706	Xi LP 22W 0.3-1.0A S1 230V S175 sXt
929000930706	Xi LP 40W 0.2-0.7A S1 230V S175 sXt
929000940806	Xi LP 40W 0.3-1.0A S1 230V S175 sXt
929000964206	Xi LP 70W 0.2-0.7A S1 230V C150 sXt
929000964306	Xi LP 70W 0.3-1.0A S1 230V C150 sXt
929001654706	Xi LP 75W 0.2-0.7A S1 230V C133 sXt
929001654806	Xi LP 75W 0.3-1.0A S1 230V C133 sXt
929001654906	Xi LP 75W 0.5-1.5A S1 230V C133 sXt
929000963206	Xi LP 75W 0.2-0.7A S1 230V S240 sXt
929000963306	Xi LP 75W 0.3-1.0A S1 230V S240 sXt
929001597606	Xi LP 75W 0.5-1.5A S1 230V S240 sXt
929000964606	Xi LP 110W 0.2-0.7A S1 230V C150 sXt
929000964706	Xi LP 110W 0.3-1.0A S1 230V C150 sXt
929001655006	Xi LP 110W 0.2-0.7A S1 230V C133 sXt
929001655106	Xi LP 110W 0.3-1.0A S1 230V C133 sXt
929000962806	Xi LP 150W 0.2-0.7A S1 230V S240 sXt
929000962906	Xi LP 150W 0.3-1.0A S1 230V S240 sXt
929001553806	Xi LP 150W 0.5-1.5A S1 230V S240 sXt
929001535406	Xi LP 165W 0.2-0.7A S1 230V C170 sXt
929001535506	Xi LP 165W 0.3-1.0A S1 230V C170 sXt
929001571906	Xi LP 165W 0.5-1.5A S1 230V C170 sXt
929001657106	Xi BP 12W 0.1-0.5A S 230V C100
929001499306	Xi BP 22W 0.2-0.7A S 230V C123 sXt
929001499406	Xi BP 40W 0.2-0.7A S 230V C123 sXt
929001499506	Xi BP 40W 0.3-1.0A S 230V C123 sXt

## Annex B: Conformity statement

As a responsible company, Signify is committed to supply products that are compliant with relevant laws, rules and obligations imposed by relevant governmental bodies including sustainability.

In order to verify the safety and the performance of our products, it is our policy to strictly follow internationally recognized standards such as defined in IEC and/or ANSI and meet the requirements for applicable safety regulations, electro-magnetic immunity, ecodesign / performance, radio performance and environmental aspects.

Products sold within the European Economic Area (EEA) are subject to the mandatory conformity CE marking, declaring that the products meet the requirements of the applicable LVD (safety) / EMC or RE (radio equipment), Eco-design and RoHS directives and its harmonized standards, whenever the products are operated as stipulated in specification and design-in guides.

With the publication of the new Radio Equipment Directive (RE-D) 2014/53/EU, assessment has been done whether LED drivers with NFC functionality are considered Radio Equipment and fall into the scope of the RE-D.

As pointed out in section 1.6.3.14 *RFID TAG* of the *RE-D guide* and ZVEI position paper *521\_2018-0151\_ZVEI\_-\_Die\_Funkanlagen-Richtlinie\_RE*, a driver with passive NFC\* functionality is considered as a non-radio product which is RFID tagged. In this case, the internal RFID tag needs to comply with the essential requirements of the RE-D:

- Article 3.1a: The protection of Health and Safety as set out in 2014/35/EU
- Article 3.1b: An adequate level of Electromagnetic Compatibility as set out in 2014/30/EU
- Article 3.2 Efficient use of the radio spectrum to avoid harmful interference
- Article 3.3 Specific requirements (not applicable)

If the intended use is that the NFC tag can be accessed either during maintenance, then the NFC tag (and especially the reader) is in scope of the RE-D.

*\* passive means that in this case special form of RFID technology through the day (= passive NFC transmitter, consisting of an induction coil and an NFC chip) only one (from a reader or transmitter outgoing) signal is modulated and the day no transmit power provides.*

Recently, ZVEI has provided a *draft* position paper that the situation might be different for lighting products which can be influenced by the passive NFC tag after it has been placed on the market, for example consumer can change the configuration via the tag. In this case, the combination of lighting product and passive NFC tag might fall under the radio equipment directive.

Herewith, the assessment done with respect to Xitanium LED drivers with NFC tag.

**Safety:** The safety of the passive NFC transponder is tested as an integral part of the driver. The products are compliant with the essential requirements of the IEC/EN 61347-2-13 in conjunction with IEC/EN 61347-1.

**EMC emission:** RF-emissions during normal operation (Tag not activated) are assessed during the EN 55015 test of the driver. Because of the passive nature and low energy use of the NFC circuitry, there are no radiated emissions expected in the frequency range above 300 MHz yet this is validated in the EN 55015 test.

**EMC immunity:** Correct operation of the NFC function is checked during the EN 61547 test of the driver. Certain bands are excluded as defined in ETSI EN 301 489.

Additionally, tests have been performed on radiated / conducted immunity with the NFC Tag plus Reader on demo boards using test software set to continuous inventory cycles to check the read/write function. These tests have been performed according to the ETSI EN 301 489-3 v1.6.1 class 3. The results of the tests show that the equipment satisfied the regulations of the standards ETSI EN 301 489-3.

**Spectrum:** The amplitude modulation of the carrier and spurious emissions of the NFC circuitry (during activation) are covered by the spectrum test of the NFC scanner loaded with a typical passive NFC tag.

Additionally, the NFC tag plus Reader has been tested on demo boards against the ETSI EN 300 330-1 v2.1.1 9 KHz – 1 GHz. The test results have shown that the equipment satisfies the requirement of this regulation.

Please note that only limited harmonized standard - to provide a presumption of conformity with the essential requirements of the RE-D, have been published. Currently no harmonized standards with respect to Health & Safety and EMC are available. Therefore, currently listed harmonized standards under the 2014/35/EU (VD-safety) and 2014/30/EU (EMC) has been used.

The ETSI EN 301 489-3 v1.6.1 has been published under the RTT&E (previous directive for radio equipment) and used to check the radiated / conducted immunity of the NFC Tag with the Reader.

Standard ETSI EN 300 330 v2.1.1 ha been used to check the Radio Spectrum.

As shown above, the Xitanium Led drivers with NFC functionality (NFC circuitry / NFC tag) has been tested against the applicable harmonized standards as listed in Annex C.

In conclusion, the assessment above assures compliance of the NFC tag with the essential requirements of the RE-D.

If you have any other question regarding the compliance of our products, please do not hesitate to contact undersigned directly, or via your local Philips Lighting contact. We will be honored to assist you further.

Yours sincerely,

C. Sweegers  
Regulatory Affairs Manager  
LED Electronics / Lamp Electronics

## Annex C: list harmonized standards used

**Low Voltage Directive (LVD), 2014/35/EU**

- EN 61347-1:2008+A1:2011+A2:2013
- EN 61347-2-13:2014

**Electromagnetic compatibility Directive (EMC), 2014/30/EU**

- EN 55015:2013+A1:2015
- EN 61000-3-2:2014
- EN 61000-3-3:2013
- EN 61547:2009

**Radio Equipment Directive (RE-D), 2014/53/EU**

- ETSI EN 301-489-1 v1.9.2
- ETSI EN 301 489-3 v1.6.1
- ETSI EN 300 330-1 v2.1.1

**EcoDesign requirements for energy-related products Directive (ErP), 2009/125/EC and applicable Implementing Measures**

- Implementing Measure EU/1194/2012

**Restriction of the use of certain Hazardous Substances in electrical and electronic equipment Directive (RoHS), 2011/65/EU**

- EN 50581:2012