



EU DECLARATION OF CONFORMITY (EU MEGFELELŐSÉGI NYILATKOZAT)

We (Mi):

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|---|---|
| Registered office (bejegyzett székhely): | Tungstam Operations Kft. |
| Contact address: (kapcsolattartó cím) | 1044 Budapest, Váci út 77. Hungary |

as manufacturer declare under our sole responsibility that the:

mint gyártó teljes felelősségünk tudatában kijelentjük, hogy a:

COMBINED RADIO AND NON-RADIO EQUIPMENT (Kombinált rádió és nem- rádió berendezés):

Product family (Termékcsoport neve): TU HB IP65/IP66 G1 with Sensor

Trade name (Márkanév megjelölése): **Listed in Appendix** (mellékletben felsorolva)

Type or model (Termék): **Listed in Appendix** (mellékletben felsorolva)

Supplementary Information (kiegészítő információ):

Manufactured in (Gyártóhely): Hungary

to which this declaration relates is in conformity with the relevant Union harmonisation legislation:

amelyre ez a nyilatkozat vonatkozik, megfelel a vonatkozó Unió harmonizációs jogszabályoknak:

- with the essential and other relevant requirements of Directive 2014/53/EU,
az alapvető és az egyéb vonatkozó 2014/53/EU irányelv követelményeinek

- with the essential and other relevant requirements of Directive 2011/65/EU, az
alapvető és az egyéb vonatkozó 2011/65/EU irányelv követelményeinek,

- with the essential and other relevant requirements of Directive 2009/125/EC and
its implementing Regulation 1194/2012/EU including all applicable amendments,
az alapvető és az egyéb vonatkozó 2009/125/EC irányelv és 1194/2012/EU reguláció követelményeinek,

The product is in conformity with the following harmonized standard(s) references of which have been published in the Official Journal of the European Union and/or other normative documents:

A termék megfelel a következő harmonizált szabvány(ok)nak, amelyek hivatkozásait közzétették az Európai Unió Hivatalos Lapjában és / vagy más normatív dokumentumoknak:



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| HEALTH& SAFETY (Art. 3(1)(a)) | |
|------------------------------------|--|
| EN 60598-1:2015 | Luminaires- Part 1: General requirements and tests |
| EN 60598-2-1: 1989 | Luminaires- Part 2: Particular requirements- Section 1: Fixed general purpose luminaires |
| EN 62493:2015 | Assessment of lighting equipment related to human exposure to electromagnetic fields |
| EN 60669-1:1999+A1:2002+A2:2008 | Switches for household and similar fixed-electrical installations - Part 1: General requirements |
| EN 60669-2-1:2004+A1:2009+A12:2010 | Switches for household and similar fixed electrical installations - Part 2-1: Particular requirements - Electronic switches |
| EN 62479:2010 | Assessment of the compliance of low-power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz) |
| EN 50364:2015 | Limitation of human exposure to electromagnetic fields from devices operating in the frequency range 0 Hz to 300 GHz, used in electronic article surveillance (EAS), radio frequency identification (RFID) and similar applications |
| EN 62369-1:2001 | Evaluation of human exposure to electromagnetic fields from short range devices (SRDs) in various applications over the frequency range 0 GHz to 300 GHz - Part 1: Fields produced by devices used for electronic article surveillance, radio frequency identification and similar systems |
| EN 60598-1:2015 | Luminaires- Part 1: General requirements and tests |
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| EMC (Art. 3(1)(b)) | |
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| EN 61547: 2009 | Equipment for general lighting purposes - EMC immunity requirements |

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| EN 55015: 2013+A1:2015 | Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment |
| EN61000-3-2:2014 | Electromagnetic compatibility (EMC) – Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase) |
| EN 61000-3-3: 2013 | Electromagnetic compatibility (EMC) – Part 3-3: Limits – Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current up to 16 A |
| ETSI EN 301 489-1 V2.2.0 | Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; |
| Final draft ETSI EN 301 489-3 V2.1.1 | Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz |
| EN 55032:2015 | Electromagnetic compatibility of multimedia equipment. Emission requirements |
| EN 55024 + A1:2010=2015 | Information technology equipment. Immunity characteristics. Limits and methods of measurement |
| EN 61000-6-2:2015 | Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments |
| EN 61000-6-3 + A1:2007+2011 | Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments |
| | |
| | |

| SPECTRUM (Art. 3(2)): | |
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| ETSI EN 300 440 V2.1.1 | Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range |
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| Other (incl. Art. 3(3) and voluntary specs) | |
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Kovács Zolt (signature)

Kovács Zsolt (name)

Product Line Manager (title)

2019-05-16 (date) (9999- - -
DD)

Hungary (Country)

Thomas Jozan (signature)

Thomas Jozan (name)

Product Manager (title)

2019-05-16 (date) (9999- - -DD)

Hungary (Country)

Limitation of validity (if any) (Érvényesség korlátozása (ha van ilyen)):

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Supplementary information (kiegészítő információk):

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-Notified body involved (bejelentett szervezet):

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-Technical file (Műszaki dokumentáció): A-1013826.....



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Appendix (Melléklet)

Brand / Márkanév: Tungsrám (45)

| Product ID | Module / Efficiency / Lumen | CCT / CRI | Optic | Sensor - Control IP6x | Option 1 | Options 2 |
|---|-----------------------------|-------------------|---------------|--------------------------------|--------------------|-----------------------|
| TU HB IP6X G1 | 1S10- 1M Std 10klm | 4K70- 4000K CRI70 | C1-120° Clear | SN- Sensor(ON/OFF) IP65 | ST (non emergency) | PC (1m precabeling) |
| . X=5 | 1S20- 1M Std 20klm | 5K70- 5000K CRI70 | L9-90° Clear | RF- RF Sensor(Motion&Lux) IP65 | | QC (quick connection) |
| . X=6 | 1S30- 1M Std 30klm | 4K80- 4000K CRI80 | L6-60° Clear | NL-Nedap Luxon IP66 | | |
| | 1H10- 1M High 10klm | 5K80- 5000K CRI80 | L3-30° Clear | | | |
| | 1H20- 1M High 20klm | | | | | |
| | 2H30- 2M High 30klm | | | | | |
| Not valid | 1Hxx | | | SN | | |
| | 1Sxx | | | NL | | |
| Example: TU HB IP65 G1 1S10 4K70 C1 RF ST | | | | | | |

