



EU DECLARATION OF CONFORMITY (EU MEGFELELŐSÉGI NYILATKOZAT)

We (Mi):

Registered office (bejegyzett székhely):	Tungstam Operations Kft. 1044 Budapest, Váci út 77. Hungary
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): THB IP20 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	Luminaire- Part 1: General requirements and tests
EN 60598-2-1: 1989	Luminaire- Part 2: Particular requirements- Section 1: Fixed general purpose luminaire
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	Luminaire- Part 1: General requirements and tests

EMC (Art. 3(1)(b))	
EN 61547: 2009	Equipment for general lighting purposes - EMC immunity requirements
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



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	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)):

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

Other (incl. Art. 3(3) and voluntary specs)



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

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Supplementary information (kiegészítő információk):

.....

 (signature)

Kühne Csaba (name)

Product Manager (title)

2019-05-22 (date) (9999 - - DD)

Hungary (Country)

 (signature)

Pilter Zoltán József (name)

Regulatory Manager (title)

2019-05-22 (date) (9999 - - DD)

Hungary (Country)

Tungshram Operations Kft.
1044 Budapest, Váci út 77.
23.

Notified body involved (bejelentett szervezet):

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Technical file (Műszaki dokumentáció): A-1013395.....



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Appendix (Melléklet)

Brand / Márkanév: Tungsrám (45)

Product ID	Module / Efficiency / Lumen	CCT / CRI	Optic	Sensor - Control	Options	Options2
TU HB IP20 G1	1S10- 1M Std 10klm	4K70- 4000K CRI70	C1-120° Clear	SN- Sensor{ON/OFF}	ST	Xxxxxxx – other colour, etc
	1S20- 1M Std 20klm	5K70- 5000K CRI70	D1-120° Diffuse	RF- RF Sensor(Motion&Lux)		
	1S30- 1M Std 30klm	4K80- 4000K CRI80	L9-90° Clear	NL-Nedap Luxon		
	1H10- 1M High 10klm	5K80- 5000K CRI80	L5-55° Clear			
	1H20- 1M High 20klm		L3-30° Clear			
	2H30- 2M High 30klm					

Exceptions		
	1H10	SN
	1H20	SN
	1H30	SN
	1S10	NL
	1S20	NL
	1S30	NL

Example: TU HB IP20 G1 1S10 4K70 C1 RF ST