

**EU DECLARATION OF CONFORMITY (EU MEGFELELŐSÉGI NYILATKOZAT)**

We (Mi):

	<b>Tungsrám Operations Kft.</b>
Registered office (bejegyzett székhely):	<b>1044 Budapest, Váci út 77. Hungary</b>
Contact address (kapcsolattartó cím):	<b>1044 Budapest, Váci út 77. Hungary (1044 Budapest, Váci út 77. Magyarország)</b>

as manufacturer, declare under our sole responsibility that the product (mint gyártó teljes felelősségünk tudatában kijelentjük, hogy a):

Product family (Termékcsalád): **TU HB IP65/IP66 G1 with Sensor**

Product identification (Termék azonosítók): Listed in Appendix (Mellékletben felsorolva)

Manufactured in (Gyártóhely): **Hungary (Magyarország)**

to which this declaration relates is in conformity with the following harmonized standard(s), the reference to which have been published in the Official Journal of the European Union and/or other relevant technical specifications (amelyre ez a nyilatkozat vonatkozik, megfelel a következő harmonizált szabványoknak, amelyek hivatkozásait közzétették az Európai Unió Hivatalos Lapjában és/vagy vagy egyéb vonatkozó műszaki előírásoknak):

**EU DECLARATION OF CONFORMITY (EU MEGFELELŐSÉGI NYILATKOZAT)****ELECTRICAL AND PHOTOBIOLOGICAL SAFETY (ELEKTROMOS BIZTONSÁG  
ÉS EGÉSZSÉG)**

<b>Number, version, year of issue</b>	<b>Title</b>
EN 60598-1:2015, EN 60598-1:2015/AC:2015, EN 60598-1:2015/AC:2016, EN 60598-1:2015/AC:2017-05, EN 60598-1:2015/A1:2018	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, IEC 62493:2015	Assessment of lighting equipment related to human exposure to electromagnetic fields
EN 60669-2-1:2004, EN 60669-2-1:2004/A1:2009, EN 60669-2-1:2004/A12:2010, EN 60669-2-1:2004/AC:2007	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 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 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

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EN 60598-1:2015	Luminaires - Part 1: General requirements and tests
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therefore it complies with the provisions of the following EU Directive (ezáltal biztosítva a következő EU irányelvnek való megfelelést)

**Directive 2014/35/EU (2014/35/EU irányelv).**

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**ELECTROMAGNETIC COMPATIBILITY (ELEKTROMÁGNESES  
KOMPATIBILITÁS)**

Number, version, year of issue	Title
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
EN 61000-3-2:2014	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current <math>\leq 16\text{ A}</math> per phase)
EN 61000-3-3:2013	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 <math>\leq 16\text{ A}</math> per phase and not subject to conditional connection
EN 61000-6-2:2005, EN 61000-6-2:2005/AC:2005	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments
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 61000-6-3 + A1:2007+2011	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments

therefore it complies with the provisions of the following EU Directive (ezáltal biztosítva a következő EU irányelvnek való megfelelést)

**Directive 2014/30/EU (2014/30/EU irányelv).**

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**ROHS**

Number, version, year of issue	Title
EN IEC 63000:2018	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances
EN 50581:2012	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

therefore it complies with the provisions of the following EU Directive (ezáltal biztosítva a következő EU irányelvnek való megfelelést):

**Directive 2011/65/EU (2011/65/EU irányelv).**

**ECODESIGN**

It complies with the provisions of the following EU Directives (Megfelel a következő EU irányelveknek):

**Directive 2009/125/EC (2009/125/EC irányelv) and (és) its implementing Regulation (EU) 2019/2020 and their amendments (annak végrehajtási rendelete (EU) 2019/2020 és módosításai).**

This declaration is valid from (A deklaráció érvényes): 2021-09-01

 (signature)

**HEAD OF PRODUCT MANAGEMENT**  
HILJBER KATALIN (name)

\_\_\_\_\_  
(Title)

2021-08-19 (date) (YYYY-MM-DD)

Hungary (Country)

 (signature)

**Lantos Ferenc**  
Head of PM & Director of Technology (name)

\_\_\_\_\_  
(Title)

2021-08-19 (date) (YYYY-MM-DD)

Hungary (Country)

## EU DECLARATION OF CONFORMITY (EU MEGFELELŐSÉGI NYILATKOZAT)

## Appendix (Melléklet)

Brand / Márkanév: Tungstram (TU)

Product ID	Module / Efficiency / Lumen	CCT / CRI	Optic	Sensor - Control IP6x	Option 1	Options 2	Options 3
TU HB IP6X G1	1S10- 1M Std 10klm	4K70- 4000K CRI70	C1-120° Clear		ST (non emergency)	PC (1m precabeling)	xx (Color code)
. X=5	1S20- 1M Std 20klm	5K70- 5000K CRI70	L9-90° Clear			QC (Quic connector)	Example
. X=6	1S30- 1M Std 30klm	4K80- 4000K CRI80	L6-60° Clear	SN- Sensor(ON/OFF) <u>IP65</u>			W1 (RAL9016)
	1H10- 1M High 10klm	5K80- 5000K CRI80	L3-30° Clear	RF- RF Sensor(Motion&Lux) <u>IP65</u>			B1 (RAL7021)
	1H20- 1M High 20klm			NL- Nedap Luxon <u>IP66</u>			G1 ( )
	2H30- 2M High 30klm						
	2H45- 2M High 45klm						
Not valid							
	1Hxx			SN			
	1Sxx			NL			
Example: TU HB IP66 G1 1S10 4K70 C1 FX ST PC W1							