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Position:

Signature: (for printed version)

Date: (for printed version)

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Certificate issued by:

UL LLC 333 Pfingsten Road Northbrook IL 60062-2096 **United States of America**

Lucy Frieders

Staff Engineer

Amy frieds

2022-03-31



Certificate No.: Date of issue:	IECEx UL 21.0111X 2022-03-31	Page 2 of 3 Issue No: 0
Manufacturer:	Top Hi-Tech Co., Ltd. 9F, No. 1, Zhongshan Rd. Tucheng District New Taipei City, 236 Taiwan	
Manufacturing locations:	Top Hi-Tech Co., Ltd. 9F, No. 1, Zhongshan Rd. Tucheng District New Taipei City, 236 Taiwan	

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-15:2017 Edition:5.0	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
IEC 60079-31:2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

US/UL/ExTR21.0115/00

Quality Assessment Report:

DE/TUR/QAR13.0016/04



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Model L1733NS Series of LED luminaires is suitable for use in hazardous location classified as Zone 2 and Zone 21. This luminaire consists of "nR"/"tb" LED array chamber and/or sensor chamber.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The luminaire shall not be opened.
- Potential electrostatic charging hazard – see instructions.
- The luminaire does not have a test port fitted. ٠
- The gasket not to be replaced in the field.

Annex:

Annex to IECEx UL 21.0111X Issue 0.pdf



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 'tb' Temperature Rating

 T110°C

 T110°C

 T110°C

 T110°C

 T110°C

 T110°C

 T110°C

 T110°C

 T110°C

TYPE DESIGNATION

Nomenclature for Luminaires:

Cat.	THT	H	logue numl 1733S	S	K	C	Н	U0
No.	1	2	3	4	5	6	7	8
TNO.		2	5	-	5	0	1	0
1 – Brand								
TH	T = Top H	li-Tech C	o., Ltd.					
2 – Categ	ory of pro	duct						
H =	= HazLoc	LED lumi	naire					
3 – Model	name							
173	33S = Mo	del L1733	NS Series					
4 – Desigi	nates type	e of senso	or					
S =	With sen	isor						
Z =	Without	sensor						
5 – Desigi	nates type	e of LED i	module					
	SMD typ							
6 – Desigi	nates CC	T of LED						
C =	Cool wh	ite						
W =	= Warm w	/hite						
7 – Desigi	nates volt	age of lur	ninaire					
1 =	110 Vac	(For 120)	N/140W/15					
			N/140W/15 N/140W/15					
			W/140W/15					
			N/140W/15					
H =	= 100~277	' Vac						
8 – Desigi	nates wat	tage of lu	minaire					
			277 Vac on					
	= 110W (= 120W	For 100~	277 Vac or	nly)				
LU		(For 100~	277 Vac ol	nlv)				
MO	= 140W		211 140 0					
N0	= 150W							
N0 P0 Q0	= 160W ((For 100~	277 Vac oi	nly)				
N0 P0 Q0 R0	= 160W (= 170W	(For 100~	277 Vac oi	nly)				
N0 P0 Q0 R0	= 160W ((For 100~	277 Vac oi	nly)				
N0 P0 Q0 R0 U0	= 160W (= 170W			nly)				
N0 P0 Q0 R0 U0 <u>Models</u> Mod	= 160W (= 170W = 200W s covered els	are as fo	llows: nbient Tem	perature	Range	'nF		ature Code
N0 P0 Q0 R0 U0 <u>Models</u> Mod	= 160W (= 170W = 200W s covered els SwKx1zz	are as fo	llows: nbient Tem -20°C	perature to +50°C	Range	'nR	T4	1
N0 P0 Q0 R0 U0 <u>Models</u> <u>Mod</u> <u>HTH1733</u> HTH1733	= 160W (= 170W = 200W s covered els SwKx1zz SwKx6zz	are as fo	llows: nbient Tem -20°C -20°C	perature to +50°C to +50°C		'nR	T4 T4	4 4
N0 P0 Q0 R0 U0 <u>Models</u> <u>Mod</u> <u>HTH1733</u> <u>HTH1733</u>	= 160W (= 170W = 200W s covered els SwKx1zz SwKx6zz SwKx2zz	are as fo	llows: nbient Tem -20°C -20°C -20°C	perature to +50°C to +50°C to +50°C		'nR	T4 T4 T4	1 1 1
N0 P0 Q0 R0 U0 <u>Models</u> Mod <u>HTH1733</u> <u>HTH1733</u> HTH1733	= 160W (= 170W = 200W s covered els SwKx1zz SwKx6zz SwKx6zz SwKx2zz SwKxDzz	are as fo	llows: nbient Tem -20°C -20°C -20°C -20°C	perature to +50°C to +50°C to +50°C to +50°C		'nR	T4 T4 T4 T4	4 4 4 4
N0 P0 Q0 R0 U0 <u>Models</u> <u>Mod</u> <u>HTH1733</u> <u>HTH1733</u>	= 160W (= 170W = 200W s covered els SwKx1zz SwKx6zz SwKx6zz SwKx2zz SwKx2zz SwKx9zz	are as fo	llows: nbient Tem -20°C -20°C -20°C -20°C -20°C	perature to +50°C to +50°C to +50°C		'nR	T4 T4 T4	4 4 4 4 4

 THTHT/35SWKXH2
 -20°C to +45°C
 T4
 T110°C

 w can be S or Z; x can be C or W; zz can be L0, N0, P0, R0 or U0; z can be J0, K0, L0, M0, N0, P0, Q0, R0 or U0
 T4
 T110°C



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PARAMETERS RELATING TO THE SAFETY

Electrical Rating:

Models	Voltage (Vac)	Frequency (Hz)	Wattage (W)
THTH1733SwKx1zz	110	50/60	120/140/150/170/200
THTH1733SwKx6zz	120	50/60	120/140/150/170/200
THTH1733SwKx2zz	220	50/60	120/140/150/170/200
THTH1733SwKxDzz	230	50/60	120/140/150/170/200
THTH1733SwKx9zz	277	50/60	120/140/150/170/200
THTH1733SwKxHz	100~277	50/60	100/110/120/130/140/150/160/170/200
w can be S or Z; x can be C	or W; zz can be L0, N	l0, P0, R0 or U0; z can	be J0, K0, L0, M0, N0, P0, Q0, R0 or U0

MARKING

Marking has to be readable and indelible; it has to include the following indications:

TOP HI-TECH CO., LTD	UL 21 ATEX 2631X	IECEx UL 21.0111X	WARNING -THE LUMINAIRE SHALL NOT BE OPENED.
Universal Hazloc LED Lighting		Ex nR IIC T4 Gc	WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD.
THTH1733S()K2H3	UL 21 ATEX 2629X	IECEx UL 21.0111X	- SEE INSTRUCTIONS. WARNING-THE LUMINAIRE DOES NOT HAVE A TEST PORT FITTEI
	CE@II 2 D Ex tb IIIC T110°C Db	Ex tb IIIC T110°C Db	WARNING-THE GASKET NOT TO BE REPLACED IN THE FIELD
V: V P: W	Ambient temperature: -20°	$C \le Ta \le +40^{\circ}C$	
A: A SN: xxyy-zzz	9F, No.1, Zhongsh	an Road, Tucheng Dist. New	v Taipei City, 236, Taiwan (R.O.C)
TOP HI-TECH CO., LTD	UL 21 ATEX 2631X	IECEX UL 21.0111X	WARNING -THE LUMINAIRE SHALL NOT BE OPENED. WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD.
Universal Hazloc LED Lighting	UL 21 ATEX 2629X	Ex nR IIC T4 Gc IECEx UL 21.0111X	- SEE INSTRUCTIONS.
THTH1733SSKCHU0	CE_@II 2 D Ex to IIIC T110°C Db	Ex th IIIC T110°C Db	WARNING-THE LUMINAIRE DOES NOT HAVE A TEST PORT FITTED
V: 100~277 V P: 200 W	Ambient temperature: -20°C		WARNING-THE GASKET NOT TO BE REPLACED IN THE FIELD
A: 0.7~2.0A SN: 2121-09	1		Taipei City, 236, Taiwan (R.O.C)
	9F, NO.1, Zhongsh	all Road, Tucheng Dist. New	Taper City, 250, Taiwan (R.O.C)
	LT. 01 ATEX 0.0137	TECE IN ALAILIN	
TOP HI-TECH CO., LTD	UL 21 ATEX 2631X	IECEX UL 21.0111X Ex nR IIC T4 Gc	WARNING - THE LUMINAIRE SHALL NOT BE OPENED. WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD.
Universal Hazloc LED Lighting	UL 21 ATEX 2629X	IECEX UL 21.0111X	- SEE INSTRUCTIONS.
THTH1733S①K2H3	CE_w II 2 D Ex tb IIIC T110°C Db	Ex th IIIC T110°C Db	WARNING-THE LUMINAIRE DOES NOT HAVE A TEST PORT FITTEI
V: V P: W	Ambient temperature: -20°		WARNING-THE GASKET NOT TO BE REPLACED IN THE FIELD
A: A SN: xxyy-zzz			7 Taipei City, 236, Taiwan (R.O.C)
	51, 10.1, Zilongsi	an Road, Tucheng Dist. New	raper eny, 250, raiwai (ROC)
TOP HI-TECH CO., LTD	UL 21 ATEX 2631X	IECEX UL 21.0111X	WARNING -THE LUMINAIRE SHALL NOT BE OPENED.
Universal Hazloc LED Lighting	C€ ⊚II 3 G Ex nR IIC T4 Gc	Ex nR IIC T4 Gc	WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD. - SEE INSTRUCTIONS.
THTH1733SSKCHU0	UL 21 ATEX 2629X	IECEX UL 21.0111X	WARNING-THE LUMINAIRE DOES NOT HAVE A TEST PORT FITTEI
N 100 077 M	(€ ⊗II 2 D Ex tb IIIC T110°C Db	Ex tb IIIC T110°C Db	WARNING-THE GASKET NOT TO BE REPLACED IN THE FIELD
V: 100~277 V P: 200 W A: 0.7~2.0A SN: 2121-0	Ambient temperature: -20°		
A · 0.7~2.0A SIN · 2121-0	99 9F, No.1, Zhongsh	an Road, Tucheng Dist. New	v Taipei City, 236, Taiwan (R.O.C)
1 Designates type of S	Sensor		
S =With Sensor, Z			
Cost and the second sec			
2 Designates CCT of L			
② Designates CCT of L C = Cool white, W			
C = Cool white, W	= Warm white		
③ Designates wattage r	^r = Warm white ating of the luminaire,	NO-140W DO-15	011 00-16011 00-17011 10-20011
C = Cool white, W ③ Designates wattage r	^r = Warm white ating of the luminaire,	, N0=140W, P0=15	0W, Q0=160W, R0=170W, U0=200W



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Univer	rsal Haz	ECH CO., LTD zloc LED Lighting 33S①K②③④	UL 21 ATEX 2631X (€ © II 3 G Ex nR IIC T4 Gc UL 21 ATEX 2629X (€ © II 2 D Ex tb IIIC T110°C Db	IECEX UL 21.0111X Ex nR IIC T4 Gc IECEX UL 21.0111X Ex tb IIIC T110°C Db	WARNING -THE LUMINAIRE SHALL NOT BE OPENED. WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD. - SEE INSTRUCTIONS. WARNING-THE LUMINAIRE DOES NOT HAVE A TEST PORT FITTEE WARNING-THE GASKET NOT TO BE REPLACED IN THE FIELD
V:	V	P: W	Ambient temperature: -20%		
A :	A	SN : xxyy-zzz	9F, No.1, Zhongsh	an Road, Tucheng Dist. New	Taipei City, 236, Taiwan (R.O.C)
Univer	sal Haz	ECH CO., LTD cloc LED Lighting 3388KC9U0	UL 21 ATEX 2631X (€ ⊗ II 3 G Ex nR IIC T4 Ge UL 21 ATEX 2629X (€ ⊗ II 2 D Ex tb IIIC T110°C Db	IECEX UL 21.0111X EX nR IIC T4 Gc IECEX UL 21.0111X EX th IIIC T110°C Db	WARNING - THE LUMINAIRE SHALL NOT BE OPENED. WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD. - SEE INSTRUCTIONS. WARNING-THE LUMINAIRE DOES NOT HAVE A TEST PORT FITTED WARNING-THE GASKET NOT TO BE REPLACED IN THE FIELD
Univer	rsal Haz HTH17	zloc LED Lighting	CE © II 3 G Ex nR IIC T4 Ge UL 21 ATEX 2629X	Ex nR IIC T4 Gc IECEx UL 21.0111X Ex tb IIIC T110°C Db	WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD. - SEE INSTRUCTIONS. WARNING-THE LUMINAIRE DOES NOT HAVE A TEST PORT FITTEI

1 Designates type of Sensor,

S =With Sensor, Z =Without Sensor

2 Designates CCT of LED,

C = Cool white, W = Warm white

③ Designates voltage of LED module, 1=110V, 2=220V, 6=120V, 9=277V, D=230V
④ Designates wattage rating of the luminaire, SN number description as show the follow : -xx means Two yards after the first AD. -yy means Week number.

L0=120W, N0=140W, P0=150W, R0=170W, U0=200W -zzz means Current week code.

ROUTINE EXAMINATIONS AND TESTS

Each pieces of equipment defined above has to have successfully passed; before delivery:

- Routine dielectric strength testing according to clause 12.1 of IEC 60079-15 is required.
- Routine restricted breathing testing according to clause 12.2.2.1.2 of IEC 60079-15 is required.