(1) TYPE EXAMINATION CERTIFICATE

(2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 2014/34/EU**

(3) Type-Examination Certificate Number

TÜV 22 ATEX 8935 X Issue: 00

(4) Equipment: **Explosion-proof daylight sensor and Explosion-proof occupancy sensor Models: THTS1912A Series and THTS1912B Series**

(5) Manufacturer: **TOP HI-TECH CO., LTD.**

(6) Address: **9F, No.1, Zhongshan Rd., Tucheng Dist., New Taipei City 23680, Taiwan**

(7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The TÜV Rheinland Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this product which has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report GC/Ex8935.00/22

(9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN IEC 60079-0: 2018 **EN IEC 60079-15: 2019**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.

(12) The marking of the equipment shall include the following:

II 3 G Ex nR IIC T6 Gc
(-40°C ≤ Ta ≤ +70°C)

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz Cologne, 2023-08-08

Dipl.-Ing. Yang Wang

This Type Examination Certificate without signature and stamp shall not be valid.
This Type Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Köln
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(13) Annex

(14) # Type Examination Certificate

TÜV 22 ATEX 8935 X Issue: 00

(15) Description of equipment

15.1 Equipment and type:

Explosion-proof daylight sensor and Explosion-proof occupancy sensor, THTS1912A Series and THTS1912B Series

See type code for more information.

15.2 Description / Details of Change

General product information
The explosion-proof daylight sensor, model THTS1912A series, is a line voltage daylight sensor designed for automatic daylighting control. This sensor is able to continuously measure the ambient light level in the controlled area and respond with switched line voltage output to control the connected lighting accordingly.

The explosion-proof occupancy sensor, model THTS1912B series, is an occupancy sensor designed to provide switched line voltage power to switch on the controlled lighting when it detects the presence of occupant. The sensor will automatically turn off the light after the area is no longer occupied for a period of time. An ambient light sensor is built-in to inhibit switching on the light if daylighting level is higher than the threshold set.

The enclosure of these two series sensors is constructed by aluminum alloy with a glass light-transmitting element. It successfully passed the tests for the ingress protection level IP67 / IPX4 to IEC 60079.

The explosion-proof daylight sensor, model THTS1912A series, and the explosion-proof occupancy sensor, model THTS1912B series, are constructed in types of explosion protection 'nR' for use in gas explosive atmospheres (Zone 2).

Type code:

Model code								
THT	S	1912	A	J	S	Z	H	00
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)

(1) Brand name, THT = Top Hi-Tech Co., Ltd
(2) Category of product, S = Explosion-proof Sensor
(3) Model name, 1912 = Model S1912 series
(4) Function, A = Daylight Sensor
B = Occupancy Sensor
(5) Appearance type, J = 1 hub
K = 2 hub
(6) Lamp type, S = Not applicable
(7) CCT, Z= Not applicable
(8) Voltage, H = 100-277V
(9) Sub-Series, 00

Technical Data

Electrical data:

Explosion-proof daylight sensor:

Power supply	100~277VAC, 50/60 Hz
Maximum Load	@-40°C~55°C Incandescent/Halogen – 800/1200W(VA) Fluorescent Ballast/CFL – 800/1200W(VA) Ballast Electronic (LED) – 540/1200W(VA)
	@ 55°C~70°C Incandescent/Halogen – 500/750W(VA) Fluorescent Ballast/CFL – 500/750W(VA) Ballast Electronic (LED) – 500/750W(VA)

Explosion-proof occupancy sensor:

*@-40°C~55°C **@ 55°C~70°C	100/120VAC	240VAC	277VAC
Incandescent/Halogen	800W(VA)* 500 W(VA)**	5A	1200W(VA)* 750W(VA)**
Fluorescent Ballast/CFL	800W(VA)* 500 W(VA)**	5A	1200W(VA)* 750W(VA)**
Ballast Electronic (LED)	540W(VA)* 500 W(VA)**	5A	1200W(VA)* 750W(VA)**

Environmental data:

1. Ambient temperature range: -40°C to +70°C(See technical data as above).
2. Zone 2.
3. Temperature class: T6

(16) Test-Report No. GC/Ex8935.00/22

(17) Special Conditions for safe use

1. Do not clean or rub when an explosive atmosphere may be present.
2. Electrostatic charging hazard - Clean only with a damp cloth.
3. S1912 series shall only be mounted where the risk of mechanical impact is low.

(18) Basic Safety and Health Requirements

Covered by afore mentioned standard

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz Cologne, 2023-08-08

Dipl.-Ing. Yang Wang