

EU-Type Examination Certificate

- [2] EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 2014/34/EU
- [3] EU-Type Examination Certificate Number: Presafe 16 ATEX 8627X Issue 0
- [4] Product: Flameproof CAMERA HOUSING, type TNU-6320E
- [5] Manufacturer: HANWHA TECHWIN Co., Ltd.
- [6] Address: 86 Cheonggyecheon-ro, Jung-gu, Seoul, Korea
- [7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] DNV Nemko Presafe AS, notified body number 2460, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential reports listed in section 16.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 60079-0:2012 + A11:2013, EN 60079-1: 2007 and EN60079-31:2014
- [10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- [11] This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- [12] The marking of the product shall include the following:

 II 2 GD Ex d IIC T6 Gb
Ex tb IIIC T80°C Db

Bjørn Spongsveen
For DNV Nemko Presafe AS
Information on electronic signature www.presafe.com



Date of issue: 2016-10-24

This certificate may only be reproduced in its entirety and without any change, schedule included.

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[13]

Schedule

[14] EU-TYPE EXAMINATION CERTIFICATE No.: Presafe 16 ATEX 8627X Issue 0

[15] **Description of Product**

The CAMERA HOUSING is made of stainless steel casting and comprises flameproof 'Ex d' enclosure. The flameproof enclosure has three compartments; One compartment contains the motor of wiper and camera, another contains the motor of tilt of camera housing and the other contains the motor of tilt of mainhousing and entry. There is a glass cemented in the lid. Entries of into the enclosures are one treaded holes in the wall of 'Ex d' enclosure. This is threaded hole for use with NPT ¾".

Type designation

TNU-6320E

Electrical Data

24V~ 6A, 50/60 Hz, Max. 49W

Degrees of protection (IP Code)

IP 67

Ambient temperature:

-40°C to +60°C

Routine tests

A routine overpressure test of 1 827 kPa with at least 60 seconds for each enclosures according to EN 60079-1 clause 16 shall be carried out.

[16] **Report No.:** 2016-9406

Project No.: PRJC-547567-2016-PRC-KOR

[17] **Specific Conditions of Use**

Repairs of the flameproof joints must be made in compliance with the structural specifications provided by the manufacturer. Repairs must not be made on the basis of values specified in tables 1 and 2 of EN/IEC 60079-1.

The yield stress of the fastener elements of each part of the flame proof casing must be at least equal to 450 N/mm².

[18] **Essential Health and Safety Requirements**

Essential Health and Safety Requirements (EHSRs) are covered by the standards listed at item 9

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Presafe 16 ATEX 8627X, Issue 0

[19] Drawings and documents

Number	Title	Rev.	Date
EXP-01A-11	FLAMEPROOF PTZ CAMERA (Sheet 1/5 to 5/5)	1	2016.06.23
344062A04	CAMERA FRONT HOUSING	2	2015.06.15
344062A05	CAMERA HOUSING	2	2015.06.15
361062A10	WIPER SHAFT	0	2014.02.05
355062A05	OIL SEAL PLATE	0	2014.02.05
377062A00	WINDOW	0	2014.02.05
561962A00	HEATER	0	2014.01.03
342062A21	WINDOW NUT	1	2016.06.14
326062A01	MAIN COVER	0	2013.12.12
344062A01	MAIN HOUSING	0	2013.12.12
344062A03	CAMERA TILT HOUSING	0	2013.12.12
344062A02	MAIN TILT HOUSING	1	2015.06.03
344062A07	BASE TOP HOUSING	1	2015.06.08
344062A08	BASE BOTTOM HOUSING	0	2013.12.12
563162A01	SLIP RING	0	2014.07.03
563163A01	TILT CABLE A'SSY	0	2014.07.03
355062A14	NAME & ENTRY PLATE	1	2016.06.23
EXP-02A-01	FRONT HOUSING A'SSY	0	2014.07.03
EXP-02A-02	TILT SHAFT A'SSY	0	2014.07.03
EXP-02A-03	MAIN HOUSING A'SSY	0	2014.07.03

[20] Certificate History

Issue	Description	Issue date	Report no.
0	Original issue	2016-10-24	2016-9406

END OF CERTIFICATE