


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 8628X Issue 0
- [4] Product: Explosionproof CAMERA HOUSING, type TNO-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 T85°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 8628X Issue 0

[15] Description of Product

The CAMERA HOUSING is made of stainless steel casting and comprises explosion proof 'Ex d' enclosure. The explosion proof enclosure has one enclosure that contains the motor of wiper and camera. There is a glass cemented in the lid. Entries of into the enclosures are one treaded hole in the wall of 'Ex d' enclosure. This is threaded hole for use with ¾" NPT.

Type designation

TNO-6320E

Electrical Data

24V~ 1,5A, 50/60 Hz, Max. 28W

Degrees of protection (IP Code)

IP 67

Ambient temperature:

-40°C to +60°C

Routine tests

No routine pressure test is required. The enclosure has been tested with 4 times the reference pressure.

[16] Report No.: 2016-9407

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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[19] Drawings and documents

Number	Title	Rev.	Date
EXF-01A-11	EXPLOSIONPROOF CAMERA (Sheet 1/2 to 2/2)	1	2016.06.23
344062A20	CAMERA HOUSING	01	2013.12.19
344062A04	CAMERA FRONT 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
355062A21	NAME & ENTRY PLATE	1	2016.06.23
316062S20	HOUSING BRACKET	01	2014.02.05
EXP-02A-01	FRONT HOUSING A'SSY	0	2014.07.03

[20] Certificate History

Issue	Description	Issue date	Report no.
0	Original issue	2016-10-24	2016-9407

END OF CERTIFICATE