EU TYPE-EXAMINATION CERTIFICATE

1. **EU type-examination Certificate (Module B)**

2. **Equipment or Protective System intended for use in potentially explosive atmospheres (Directive 2014/34/EU)**

3. **EU type examination certificate Nr** **ITS 16 ATEX 18446 X**

4. **Product:** Videocamera enclosure model:

   EC-940S-***-***-***-*** standard version and HD version

   EC-840S-***-***-***-***-** thermal version

5. **Manufacturer:** R. STAHL HMI Systems GmbH **Applicant:** R. STAHL HMI Systems GmbH

6. **Address:** Adolf-Grimme-Allee 8
   50829 Köln
   Germany
   Address: Adolf-Grimme-Allee 8
   50829 Köln
   Germany

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

8. INTERTEK ITALIA S.p.A., Notified Body n° 2575 in accordance with article 17 of the Directive 2014/34/EU of the European Parliament and Council of the 26 February 2014, certifies that the equipment or protective system has been found to comply with the essential Health and Safety Requirements relating to the design and construction of equipment and protective system intended for use in potentially explosive atmosphere, given in Annex II of the Directive.

   The examination and tests results are recorded in confidential technical evaluation Intertek Report Nr. 102501558UDI-001B dated 14 March 2016, Intertek Report Ref 103339114UDI-001 dated February 2018, and Intertek Report Ref 103553297UDI-002 Issue: 00 dated: 13 June 2018.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012/A11:2013, EN 60079-1:2014 and EN 60079-31:2014 except in respect of those requirements referred to at item 18 of the Schedule.

10. If the sign X is placed after the certificate number, it indicates that the product is subject to Special Conditions for Safe 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 2G Ex db IIC Tx Gb
    II 2D Ex tb IIIC Tx Db IP66/68
    (For temperature class see schedule)

31-07-2019

Certificate issue date

Alessandro Savio
Certification Officer
Intertek Italia S.p.A. (NB 2575)

PDR N° 277B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

This certificate is the transfer of the certificate issued by Intertek Testing & Certification Ltd. (NB 0359) having the same number.

13. **SCHEDULE**

14. **EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS 16 ATEX 18446 X**

15. **DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM**

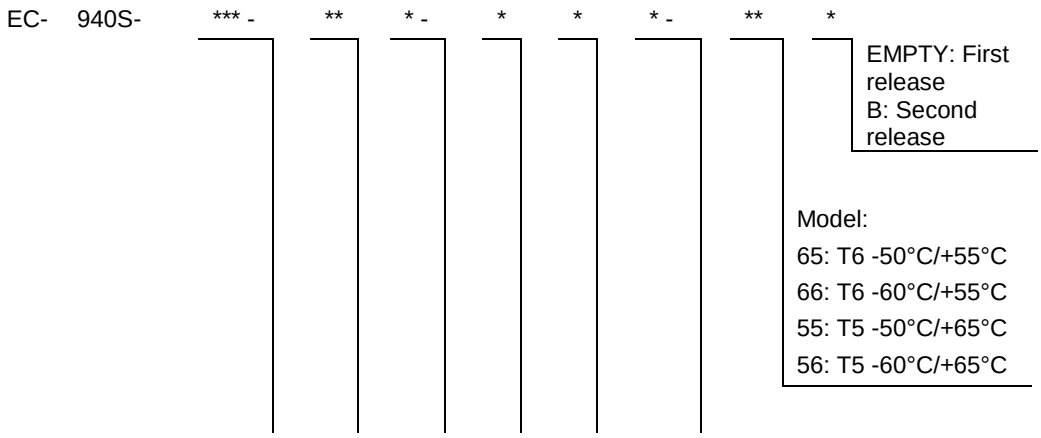
The EC series explosion-proof housing has been designed for use with cameras operating in industrial environments in which there may be an explosive atmosphere due to gas, vapours, mists, or air or powder mixtures.
The EC housing is made of micro shot peened AISI 316L stainless steel. It is constituted by a cylindrical body closed by one welded front flange and one bolted rear flange.
The front flange has toughened glass window or germanium window.
The rear flange incorporates the internal slide where the camera must be positioned, it contains also the internal electronics that manages the power supply and the heating devices of the housing.
The cables entry is made through one 3/4" NPT threaded hole on the rear flange.
The EC series explosion-proof housing has an IP66/IP68 (2h, 5m) protection degree and its operating temperature is from -60°C to +65°C, depending on application.
The unit is designed for use in a fixed location, for surveillance of areas classified as zone 1-21 and zone 2-22 potentially explosive atmospheres.

Tamb	Gas	Dust
-60°C up to +65°C	T5	+100°C
-50°C up to +65°C	T5	+100°C
-60°C up to +55°C	T6	+85°C
-50°C up to +55°C	T6	+85°C

The type code is function of the model of the camera:

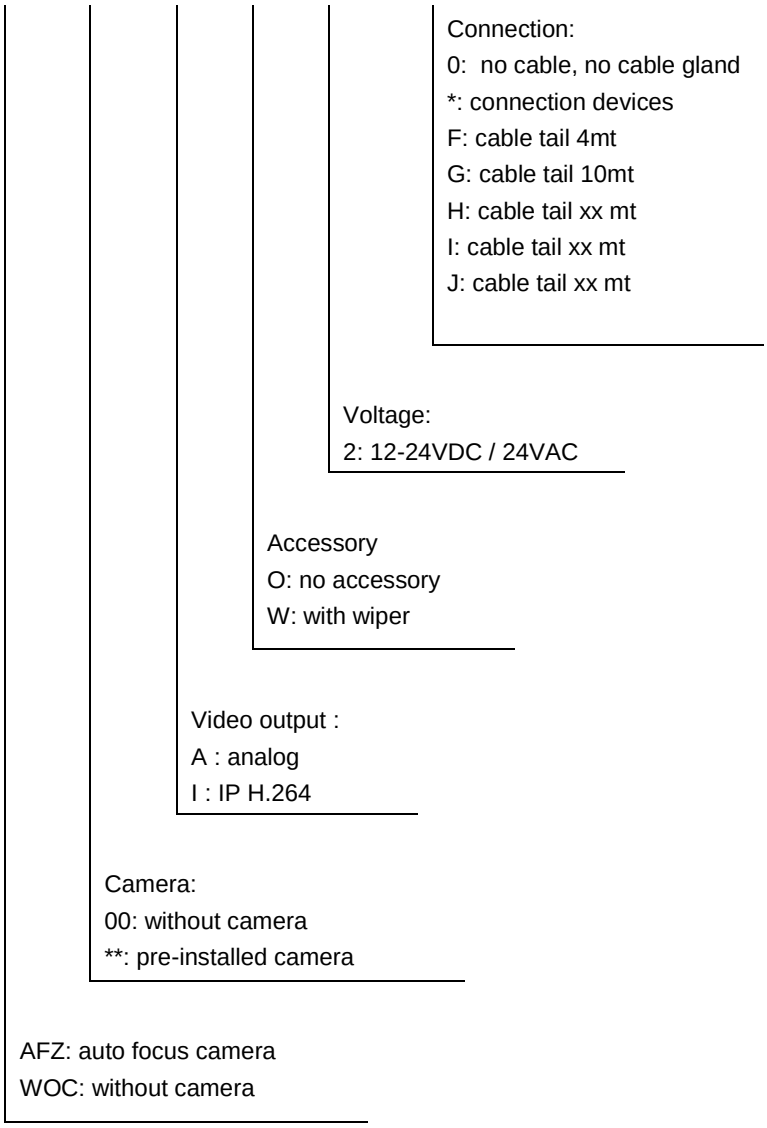
1. Standard;
2. With thermal camera; and
3. With High definition Camera.

The type code for the standard model and for High Definition Camera is:

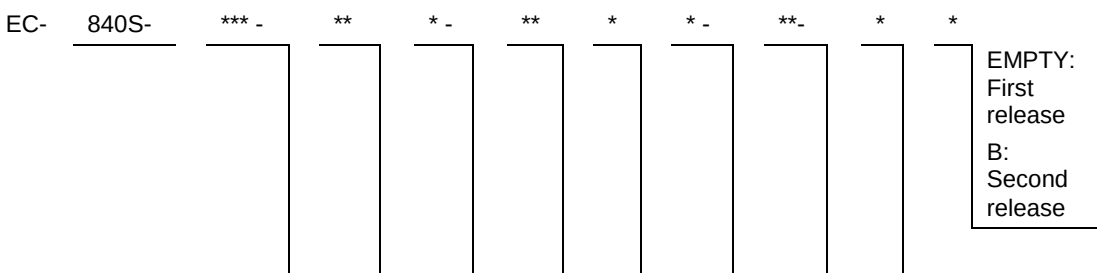


13. **SCHEDULE**

14. **EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS 16 ATEX 18446 X**

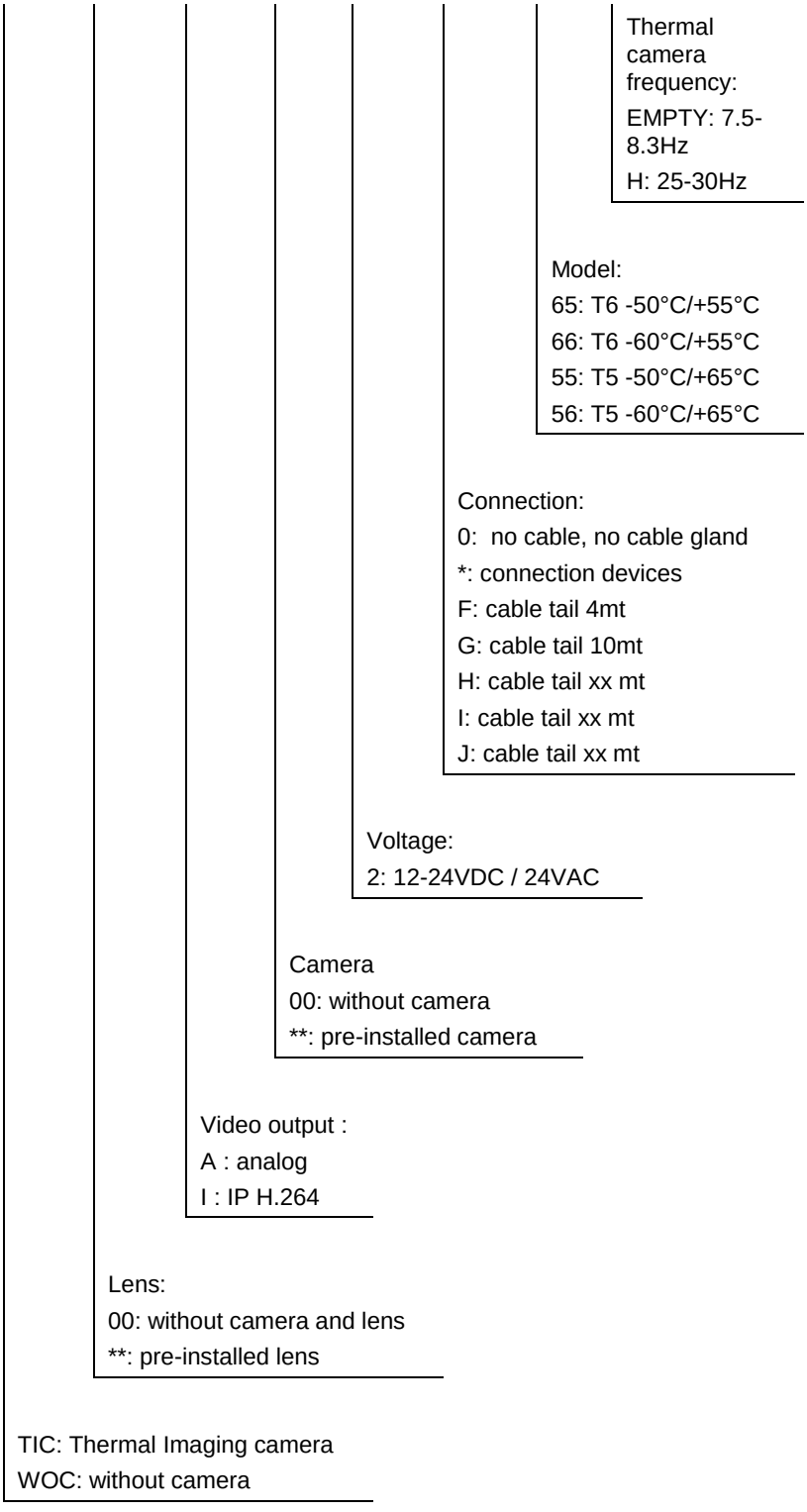


The type code for the Thermal camera frequency is:



13. **SCHEDULE**

14. **EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS 16 ATEX 18446 X**



13. **SCHEDULE**

14. **EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS 16 ATEX 18446 X**

CE Marking shall be accompanied by the identification number of the Notified Body responsible for surveillance of production.

16. **DRAWINGS AND DOCUMENTS**

TITLE	DOCUMENT Nr	LEVEL	DATE
Stahl Camera System declaration		00	21 January 2016
Stahl Camera System declaration		00	26 February 2016
Videotec declaration		00	21 January 2016
Contractual agreement		00	16 December 2015
Label drawing	LABEL DRAWING EC-940S EC-840S	02	15/05/2018
Instruction manual	MNTCMVXHDCAM_1820	1820	Week 20, 2018
Instruction manual	MNTCMVXTHD_1820	1820	Week 20, 2018

Copies of the above listed documents are kept at Intertek Italia S.p.A. archive.

17. **SPECIAL CONDITIONS FOR SAFE USE**

- The max power consumption of the camera installed inside the enclosure and the dimensions shall be:

	Power consumption		Max dimensions of video camera (WxHXL)	
Housing	With video encoder	Without video encoder	With video encoder IP	Without video encoder IP
EC-940S-***-**A-***-***-**	6W	8W	70mmx65mmx120mm	70mmx65mmx140mm
EC-840S	6W	8W	70mmx65mmx120mm	70mmx65mmx140mm
EC-940S-***-**I-***-***-**	6W	8W	70mmx65mmx100mm	70mmx65mmx140mm

- The video encoder, if present, is part of the pcb preinstalled by the manufacturer.
- It is required to use cables and cable glands, fittings or other connection element suitable for a minimum temp of +80°C.
- Specific guidance noted to contact the original manufacturer for information on the dimensions of the flameproof joints is reported in the user manual.
- The rear access cover has to be closed with eight M5x0.8 hexagon socket stainless steel screws (A4 class 70, head per ISO 4762, long 12 mm, yield stress 450 N/mm2).
- It is not possible to install video camera o component with batteries.
- When the enclosure is used with a conduit, the following requirement must be satisfied: The distance from the face of the seal closest to the enclosure (or intended end-use enclosure), and the outside wall of the enclosure (or intended end-use enclosure) shall be as small as practical, but in no case more than the size of the conduit or 50 mm, whichever is the lesser.

13. **SCHEDULE**

14. **EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS 16 ATEX 18446 X**

18. **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS**

The relevant essential Health and Safety Requirements have been identified and assessed in Intertek Report Nr. 1035532975UDI-001 Issue: 02 Dated: 13 June 2018.

19. **ROUTINE (FACTORY) TESTS**

Routine test for IEC 60079-1: it is required to make an overpressure at 45bar. The application of the pressure shall be at least 10s.

20. **DETAIL OF CERTIFICATE CHANGES**

None