



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx UL 10.0010X issue No.:3
Status: **Current**
Date of Issue: **2014-09-04** Page 1 of 5

Certificate history:
Issue No. 3 (2014-9-4)
Issue No. 2 (2013-5-20)
Issue No. 1 (2011-4-28)
Issue No. 0 (2011-3-12)

Applicant: **Bosch Security Systems Inc.**
850 Greenfield Road
Lancaster, PA 17601
United States of America

Electrical Apparatus: **VEN-650V05-X Series Camera, LED-65 Series Illuminator**
Optional accessory:

Type of Protection: **Flameproof "d" and Dust "tb"**

Marking: Ex d IIB T6 Gb, Ex tb IIIC T85°C Db IP67
-50°C ≤ Ta ≤ 60°C

*Approved for issue on behalf of the IECEx
Certification Body:*

Paul T. Kelly

Position:

Principal Engineer, Global Hazardous Locations

*Signature:
(for printed version)*

Date:

2014-09-04

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

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





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Manufacturer: **Bosch Security Systems S.A.**
En 109 Zona Industrial de Ovar
Lugar da Pardala
3880-728 Ovar
Portugal

Additional Manufacturing location(s):

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 electrical apparatus 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 : 2011 Explosive atmospheres - Part 0: General requirements
Edition: 6.0

IEC 60079-1 : 2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition: 6

IEC 60079-31 : 2008 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
Edition: 1

*This Certificate **does not** indicate compliance with electrical 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/ExTR10.0012/00](#)
[US/UL/ExTR10.0012/03](#)

[US/UL/ExTR10.0012/01](#)

[US/UL/ExTR10.0012/02](#)

Quality Assessment Report:

[DK/ULD/QAR13.0001/01](#)

[US/UL/QAR12.0010/01](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

These devices are flameproof and dust protected by enclosure camera and illuminator assemblies. The camera and illuminator each consist of a cylindrical stainless steel or aluminum housing with a front window cover and black plate assembly threaded into either end of the housing. The back plate assembly has four threaded 3/4 NPT entries for the supply connection. All unused entries contain a conduit plug. Both contain a mounting bracket assembly and sunshield (not used for mechanical protection).

The optical radiation output of the apparatus with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 94/9/EC is not covered in this certificate.

Nomenclature for the Camera and Illuminator Assemblies:

Camera

Model VEN-650V05-X S3 N

I II III

I - Basic Series Designation

VEN-650V05-X-Camera, where X can be 1 or 2 (1 or 2 represents video standards, not safety related)

II - Enclosures Material

S3 - Stainless Steel

A3 - Aluminum

III - Video Connection

Blank or X, where X can be any letter (not safety related, all video connections are in rigid metal conduit)

CONDITIONS OF CERTIFICATION: YES as shown below:

- Proper operation and instruction for putting the device into safe use is described in the manufacturer's installation instructions, Drawing Numbers F.01U.142.061 (Camera) and F.01U.162.949 (Illuminator).
- Unused conduit openings shall be closed with the provided conduit plug.
- For ambient temperatures below -10°C use field wiring suitable for the minimum ambient temperature.
- The joint between the junction box and housing is secured by a thread locker for permanent securement. This joint shall not be removed because there may be damage to the flamepath.
- The device was subjected to the resistance to impact test at 2 J. It shall be installed where it will not be subjected to impact.
- Information about contacting the manufacturer for information about the flameproof joints.
- Information about the application of thread sealant Slic Type Paste with PTFE, manufactured by Laco Markal, to the conduit plug/back plate assembly threaded joint.



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EQUIPMENT(continued):

Illuminator

Model LED65 8 -SX

I II III

I - Basic Series Designation

LED65 - Illuminator

II - Wavelength

8 - 850 nm

9 - 940 nm

III - Enclosure Material

-SX - Stainless Steel, where X can be M or W (Medium or Wide angle of illumination)

-AX - Aluminum, where X can be M or W (Medium or Wide angle of illumination)

A routine pressure test according to IEC 60079-1, Clause 16.1, shall be conducted at 201 PSI in a normal room ambient on each front cover/fascia. There shall be no permanent deformation of the joints or damage to the enclosure, including the window.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1: The following nameplate drawings were revised: F.01U.143.888, Revision 09, 2011-03-30, and F.01U.214.239, Revision 06, 2011-03-30. The only changes to these drawings included the addition of the INMETRO certification mark and the Portuguese warning equivalents. There were no other revisions to the construction or drawings.

Issue 2: Update Applicant information.

Issue 3: Updated to the latest edition of the standards. Updated installation instructions to include the new standards as well as updated some drawings.