



Certificate of Conformity

| Certificate num. | Registration date | Version | Valid until | |
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| afp - 3323 | 15-Apr-2019 | Number 5 | Issue date 28-Mar-2023 | 30-Apr-2024 |

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Product designation

AVIOTEC IP starlight 8000, FCS-8000-VFD-B, video-based fire detection system
(Refer to the Schedule/enclosures for further specified details)

Agent/distributor

Bosch Security Systems Pty Ltd
Level 2, 21 Solent Circuit, BAULKHAM HILLS, NSW, AUSTRALIA, 2153

Registrant

Bosch Security Systems Pty Ltd
Level 2, 21 Solent Circuit, BAULKHAM HILLS, NSW, AUSTRALIA, 2153

Producer

Bosch-Sicherheitssysteme GmbH
Robert-Bosch-Platz 1, Gerlingen, Baden-Wurttemberg, GERMANY, D-70839

Conformance criteria and evaluation

The AVIOTEC IP starlight 8000, FCS-8000-VFD-B, video-based fire detection system has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. CSIRO Technical Specification TS010, Version 1: 4-Feb-2019, 'Conformity Verification of Video Fire Detection Systems'.

Limitations/conditions of conformance

Limitations/conditions of conformance, where identified on this certificate, are derived from qualifications from evaluation(s) for conformity and/or other related technical documentation. All details with respect to design, assembly and installation instructions and restrictions should be checked against the producer's current technical manual/data sheets and the requirements of the Authority having Jurisdiction.

Specified limitations/conditions, determined from the evaluation for conformity, include the following.

- i. Compatibility of this fire detector with new or existing control and indicating equipment should be verified prior to installation.

This certification is issued within the scope of CSIRO Verification Services – Rules governing ActivFire Scheme and is valid only for the product(s) as submitted for evaluation and verification of conformity, subject to the following conditions.

- Reference to details, limitations and requirements, where documented as a schedule/enclosure with this certificate.
- The Registrant is responsible for their attestation of conformity and ensuring that on-going production complies with the conformance criteria defined in this certificate.
- This certificate will not be valid if any changes or modifications are made to the product which have not been notified and validated by CSIRO Verification Services.
- This certificate is subject to periodical re-validation upon verification that all requirements, as determined by the conformity assessment body, continue to be satisfactorily met by the Registrant.
- This certificate may only be reproduced in its published form, without modification and inclusive of all schedules/enclosures.
- Any changes, errors or omissions, must be submitted in writing and if necessary or requested, substantiated with relevant evidence.
- Any representations, such as advertising or other marketing related activities or articles shall reflect the correct contents of this certificate and conform with all relevant trade practices and consumer protection legislation and regulations.
- Any terms or conditions of use as applicable to content and documentation as published or accessed through web sites administered by the CSIRO Verification Services.

Issued by

Kaj Loh
Executive Officer – ActivFire Scheme



Schedule to Certificate of Conformity

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Producer's description

The AVIOTEC IP starlight 8000, FCS-8000-VFD-B, video-based fire detection system operates as stand-alone unit and doesn't need a separate evaluation unit. It contains all features of the Intelligent Video Analytics which allows analysing and evaluating moving objects in parallel. Video-based fire detection and Intelligent Video Analytics operate independently from each other and are separately adjustable.

Video-based fire detection system provides fire detection for applications which are not subjected to construction product regulation or as supplementation to existing fire detection systems.

A 10/100 Base-T Fast Ethernet port on the back part of the device is available to connect the camera to Ethernet. This allows easy configuration and monitoring through network devices such as Client PCs or mobile devices. A video recording management system may be integrated optionally. Furthermore, there is a relay output to transmit alarm signals, e.g. to the FPA-5000 fire alarm panel. In this case the camera acts as supervisory signal-initiating device. Alarms have to be verified by an operator in a monitoring centre owing to non-existing standards. Automatic alarm-forwarding to fire services is not provided.

Technical specification

The following details are a representative extract of the technical specification for the AVIOTEC IP starlight 8000, FCS-8000-VFD-B, video-based fire detection system and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Schedule of components and/or assemblies

The following is a schedule of validated components and/or assemblies of the certified/listed equipment.

| Description | Model/part ident. |
|-----------------------------|---------------------------------|
| AVIOTEC IP starlight 8000 | FCS-8000-VFD-B |
| Varifocal SR Megapixel Lens | LVF-5005C-S4109 F.01U.297.770 |
| TC9208 bracket | TC9208 F.01U.143.919 |

Schedule of properties/characteristics

The following schedule is an extract of physical and operational properties/characteristics of the certified/listed equipment.

Ambient conditions

| | |
|--|--------------------------|
| Operating temperature(by manufacturer) | -20°C...+50°C |
| Operating temperature (tested by VdS) | -10°C...+50°C |
| Storage temperature | -30°C...+70°C |
| Air humidity (operation) | 20...93 % rel. Humidity |
| Air humidity (storage) | up to 98 % rel. humidity |

Input / output

| | |
|---------------------------|--|
| Analogue video output | SMB plug connector, VBS (PAL/NTSC), 1 Vss, 75 ohm |
| Audio line input | max. 1 Vrms, 18 kohm typical |
| Audio line output | 0.85 Vrms at 1.5 kohm typical |
| Audio connectors | 3.5 mm monaural jack |
| Alarm input | 2 inputs |
| Activation of alarm input | +5 V DC nominal voltage; max. +40 V DC (direct current with 50 kohm pull-up resistance up to +3.3 V DC) (<0.5 V is low; >1.4 V is high) |
| Alarm output | 1 output |
| Alarm output voltage | 30 VAC or +40 VDC max. max. 0.5 A continuous duty, 10 VA (resistive load only) |
| Ethernet | RJ45 |
| Data port | RS-232/422/485 |

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|----------------------------------|---|
| Local memory | |
| Internal RAM | 10 s prealarm recording |
| Memory slot | supports microSDHC card up to 32 GB / microSDXC card up to 2 TB (for HD recording, SD cards of class 6 or higher recommended) |
| Recording | permanent recording, ring recording, alarm / event / scheduled recording |
| Mechanical specifications | |
| Dimensions (HxWxD) | 78 x 66 x 140 mm (w/o lens) |
| Weight | 855 g (w/o lens) |
| Colour | RAL 9006 white aluminium |
| Tripod mount | bottom and top 1/4 inch 20 UNC |
| Network | |
| Protocols | Pv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/RTCP, IGMP V2/V3, ICMP, ICMPv6, RTSP, FTP, Telnet, ARP, DHCP, APIPA (Auto-IP, link local address), NTP (SNTP), SNMP (V1, MIB-II), 802.1x, DNS, DNSv6, DDNS (DynDNS.org, selfHOST.de, noip. com), SMTP, iSCSI, UPnP (SSDP), DiffServ (QoS), LLDP, SOAP, Dropbox, CHAP, digest authentication |
| Encryption | TLS 1.0, SSL, DES, 3DES |
| Ethernet | 10/100Base-T, automatic detection, semi-/full duplex |
| Connection | ONVIF profile S, auto MDIX |

Supplementary information

Schedule of relevant articles

The following schedule is an extract of articles significant and/or related as evidence of conformity.

| Reference | | Title / description | Date issued (or date validated) | Source |
|-----------------|------------------------|---|------------------------------------|-----------------------------------|
| Ident. type | Ident. | | | |
| Report | XF3092/R1 | Evaluation for Conformity of the Aviotec IP Starlight 8000 FCS-8000-VFD-B video camera device for visual fire monitoring to the requirements of CSIRO-TS-010 Version 1.0 | 12-Apr-2019 | CSIRO Fire Systems Laboratory, AU |
| Datasheet | 18757245579 en, V21 | Fire Alarm Systems FCS-8000-VFD-B Video-based fire detection FCS-8000-VFD-B Video-based fire detection | 27-Nov-2018 | Bosch-Sicherheitssysteme GmbH, DE |
| Test Report No. | 160275-AU02+MMF03-PB01 | Detectors, Modules and Hold-Open Systems Test Report No. 160275-AU02+MMF03-PB01 on the testing of Video camera device for visual fire monitoring Type: Aviotec IP starlight 8000 FCS-8000-VFD-B | 27-Oct-2017 | VdS Schadenverhütung GmbH, DE |