



EC Declaration of Conformity
(Addendum with Revisions to the Manual)
Flame Detectors IR3-109/1CZ, UV/IR-210/1CZ, UV-185/5CZ

10. Appendices

10.1 Appendix A: EU-Declaration of Conformity



In accordance with EN/ISO/IEC 17050-1:2010

Manufacturer: Sense-WARE Fire and Gas Detection B.V.
Fokkerstraat 25, NL- 3905 KV Veenendaal, the Netherlands, EU

Declaration: This declaration of conformity is issued under the sole responsibility of the manufacturer.

Description: UV, UV/IR and IR3 flame detectors

Brand Name: SENSE-WARE

Model: UV-185/5(CZ), UV/IR-210/1(CZ) and IR3-109/1(CZ)

Intended use: Flame detectors for use in fire detection and fire alarm systems installed in and around buildings.

We here declare that the product(s) identified above meet(s) the requirements of the following EC Directives and therefore qualifies for free movement within markets comprising the European Union (EU) and the European Economic Area (EEA):

Construction Products Regulation (CPR) 305/2011/EU

Notified Body: SKG-IKOB
Notified Body number: 0960
EC certificate number: 0960-CPR-SKG.1388.3643.04.ENG
Conforms to: EN54-10: 2002/A1: 2005, Flame detector – Point Detectors

The applicable flame detector(s), for this manual as mentioned in the certificate above, are:

Article	Specification	Classification
UV-185/5(CZ)	Ultraviolet Flame Detector	Class 2
UV/IR-210/1(CZ)	Ultraviolet/Infrared Flame Detector	Class 2
IR3-109/1(CZ)	Triple Infrared Flame Detector	Class 1

EMC Directive 2014/30/EU

Conforms to: EN 50130-4:2011

Alarm systems – Part 4: Electromagnetic compatibility – Product family standard: Immunity requirements for components of fire, intruder, hold up, CCTV, access control and social alarm systems

RoHS3 Directive 2015/863/EU

Conforms to: EN 63000:2018

Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances.

REACH Directive 1907/2006

Hereby we certify that none of the SVHCs (the list of 201 substances of July 16th, 2019, released by ECHA) is present in the products of SENSE-WARE Fire and Gas Detection B.V., in quantities totalling in a concentration equal or above 0.1 %.

Signed for and on behalf of the manufacturer by:

Jan Nijkamp, Business Development Manager
Veenendaal, 7 July 2020



10.2 Appendix B: EU-Declaration of Performance - CPR 305/2011/EU

1.Unique identification code of the product:

**Flame detector – Point detector
UV-185/5CZ, UV/IR-210/1CZ or IR3-109/1CZ**

2.Type or Serial Number or any other element allowing identification of the construction product as required under Article 11(4) of the CPR:

See flame detector product label as well as the original Packing List

3.Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Flame detectors for use in fire detection and fire alarm systems installed in and around buildings.

4.Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5):

SENSE-WARE Fire and Gas Detection BV, the Netherlands; www.sense-ware.com

5.Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

See original Packing List

6.System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:

System 1

7.In case of the declaration of performance concerning a construction product covered by a harmonized standard:

SKG (Notified body nr.0960) performed: (i) determination of the product type on the basis of type testing; (ii) initial inspection of the manufacturing plant and of factory production control; (iii) continuous surveillance, assessment and evaluation of factory production control, under system 1 and issued certificate 0960-CPR-SKG.1388.3643.04.ENG.

8.In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

Not applicable

9.Declared performance as listed: EN54-10: 2002

	Clause	Result	Remark
Reproducibility	5.2	Pass	
Repeatability	5.3	Pass	
Directional dependence	5.4	Pass	
Fire sensitivity UV-185/5CZ and UV/IR-210/1CZ	5.5	Pass	Class 2
Fire sensitivity IR3-109/1CZ	5.5	Pass	Class 1
Dazzling (operational)	5.6	Pass	
Dry heat (operational)	5.7	Pass	
Cold (operational)	5.8	Pass	
Damp heat cyclic (operational)	5.9	Pass	
Damp heat steady state (endurance)	5.10	Pass	
Sulphur dioxide (SO₂) corrosion (endurance)	5.11	Pass	
Shock (operational)	5.12	Pass	
Impact (operational)	5.13	Pass	
Vibration, sinusoidal (operational)	5.14	Pass	
Vibration, sinusoidal (endurance)	5.15	Pass	
Variation in supply parameters (operational)	5.16	Pass	
Electrostatic discharge (operational)	5.17	Pass	
Radiated electromagnetic fields (operational)	5.17	Pass	
Conducted disturbances induced by electromagnetic fields (operational)	5.17	Pass	
Fast transient bursts (operational)	5.17	Pass	
Slow high energy voltage surge (operational)	5.17	Pass	

10.The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Jan Nijkamp, Business Development Manager
Veenendaal, 7 July 2020



10.3 Appendix C: EU-Declaration of Conformity - ATEX Directive 2014/34/EU

Sense-WARE Fire and Gas Detection B.V.

Fokkerstraat 25, NL- 3905 KV Veenendaal, the Netherlands, EU

Description: UV, UV/IR and IR3 flame detectors

Brand Name: SENSE-WARE

Model: Flame detector 210 series



Article	Specification	Classification
UV-185/5CZ	Ultraviolet Flame Detector	ATEX cat. 3GD
UV/IR-210/1CZ	Ultraviolet/Infrared Flame Detector	ATEX cat. 3GD
IR3-109/1CZ	Triple Infrared Flame Detector	ATEX cat. 3GD



II 3G Ex nA IIC T4 Gc
II 3D Ex tc IIIC T 71°C Dc IP65
Ambient temperature : -25°C to +70°C

DEKRA Certification B.V., Meander 1051, 6825 MJ Arnhem, the Netherlands

DEKRA 13ATEX0077X

Type certificate

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

- EN 60079-0:2018
- EN 60079-15:2010
- EN 60079-31:2014

Equipment and protective systems intended for use in potentially explosive atmospheres Directive 2014/34/EC ATEX.

This declaration of conformity is issued under the sole responsibility of the manufacturer. On behalf of the above named company, I declare that, on the date the equipment accompanied by this declaration is placed on the market, the equipment conforms with all technical and regulatory requirements of the above listed directives.

Date: 7 July 2020

Jan Nijkamp

Business Development Manager

Warning:

1. Never open the equipment in a situation where explosive gas or dust is present.
2. The flame detector should be installed and commissioned in accordance with the Manual.
3. The screws of the housing lid should be tightened with a torque of 2 Nm.
4. The screws of the wire terminals should be tightened with a torque of 0.4 Nm.
5. The alarm- and EOL resistor must be rated 2 W minimum each and the total power dissipation of both alarm- and EOL resistor should not exceed 2 W.
6. When cleaning the swivel mount SM21, exclusively use a damp micro fiber cloth to avoid the mount from getting static.

Special conditions:

1. When the temperature under rated conditions exceeds 70°C at the cable or conduit entry point, or 80°C at the branching point of the conductors, the temperature specification of the selected cable shall be in compliance with the actual measured temperature values.
2. Provisions shall be made to prevent the rated voltage from being exceeded by transient disturbances of more than 119 V.



10.4 Appendix D: IECEx-Declaration of Conformity - Hazardous Areas

SENSE-WARE Fire and Gas Detection B.V.

Fokkerstraat 25, NL- 3905 KV Veenendaal, the Netherlands, EU

Description: UV, UV/IR and IR3 flame detectors

Brand Name: SENSE-WARE

Model: Flame detector 210 series

Article	Specification	Classification
UV-185/5CZ	Ultraviolet Flame Detector	Ex n, Ex t
UV/IR-210/1CZ	Ultraviolet/Infrared Flame Detector	Ex n, Ex t
IR3-109/1CZ	Triple Infrared Flame Detector	Ex n, Ex t

Ex nA IIC T4 Gc

Ex tc IIIC T 71 °C Dc IP65

Ambient temperature : -25 °C to +70 °C

DEKRA Certification B.V., Meander 1051, 6825 MJ Arnhem, the Netherlands

IECEX DEK 15.0055x

Type certificate

-IEC 60079-0: 2018

-IEC 60079-15:2010

-IEC 60079-31:2013

Equipment and protective systems intended for use in potentially explosive atmospheres.

On behalf of the above named company, I declare that, on the date the equipment accompanied by this declaration is placed on the market, the equipment conforms with all technical and regulatory requirements of the above listed directives.

Date: 7 July 2020

Jan Nijkamp

Business Development Manager

Warning:

7. Never open the equipment in a situation where explosive gas or dust is present.
8. The flame detector should be installed and commissioned in accordance with the Manual.
9. The screws of the housing lid should be tightened with a torque of 2 Nm.
10. The screws of the wire terminals should be tightened with a torque of 0.4 Nm.
11. The alarm- and EOL resistor must be rated 2 W minimum each and the total power dissipation of both alarm- and EOL resistor should not exceed 2 W.
12. When cleaning the swivel mount SM21, exclusively use a damp micro fiber cloth to avoid the mount from getting static.

Special conditions:

1. When the temperature under rated conditions exceeds 70 °C at the cable or conduit entry point, or 80 °C at the branching point of the conductors, the temperature specification of the selected cable shall be in compliance with the actual measured temperature values.
2. Provisions shall be made to prevent the rated voltage from being exceeded by transient disturbances of more than 119 V.