



EU-TYPE EXAMINATION CERTIFICATE

Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

Certificate Number: **CSANe 21ATEX2239** Issue: **0**

Equipment: **Flow Sensor type SP321A**

Applicant: **ifm electronic gmbh**

Address: Friedrichstrasse 1
45128 Essen
Germany

This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN IEC 60079-0: 2018

EN 60079-11: 2012

If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

The marking of the equipment shall include the following:



II 2G

Ex ia IIC T4 Gb

Ta = -20°C to +70°C

Signed: J A May

Title: Director of Operations



Project Number 80087489

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CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR, Netherlands



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

CSANe 21ATEX2239
Issue 0

13 DESCRIPTION OF EQUIPMENT

The Flow Sensor type SP321A is used for monitoring streams inside liquid or gaseous mediums. The sensor is equipped with a fixed cable of maximum 6m and mounted to the medium with a G 1/2" thread.

Ambient temperature range: -20°C to +70°C

Electrical Data

Supply and output circuit (White, Brown, Blue and Black wire):
Only for connection to Evaluation Unit VS4000 type SR307A taking into account the following maximum values internal capacitance and inductance for the installation:
 $C_i = 4.2 \text{ nF}$; $L_i = 16 \text{ }\mu\text{H}$

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated CSA Group Reports and Certificate History

Issue	Date	Report number	Comment
0	05 April 2022	R80087489A	The release of the prime certificate.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

None

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 CONDITIONS OF MANUFACTURE

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.

17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.



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Certificate Annexe



Certificate Number: CSANe 21ATEX2239

Equipment: Flow Sensor type SP321A

Applicant: ifm electronic gmbh

Issue 0

Drawing	Sheets	Rev.	Dwg. Date	Date (Stamp)	Title
-	1 to 7 + 8 of 7	-	12 Nov 2021	04-Apr-22	Description for the application Flow sensor SP321A (7 pages)
-	1 to 4	00	04 Feb 2011	04-Apr-22	Documents for ATEX sensor SP321A Mechanical design (4 pages)
195613	1 of 1	00	2012-02-03	04-Apr-22	SLP SP SENS/ /K/1/PHO
196613	1 of 1	00	2012-02-03	04-Apr-22	LEB SP SENS/ /K/1/PHO
10230656	1 of 1	00	2012-02-09	04-Apr-22	ISOL KB/KAPHN/D11,2/W0,20L29,4
10188311	1 of 1	04	2012-02-14	04-Apr-22	SENS VOR
10188270	1 of 1	06	2012-02-13	04-Apr-22	LTG KPL
10188394	1 of 1	04	2012-02-14	04-Apr-22	EFETOR KPL
10199679	1 of 1	02	2011-05-16	04-Apr-22	GEH SP G1/2 V4A 30 L45,0
-	1 to 2	-	-	04-Apr-22	PARTSLIST
11233168	1 of 1	01	2022-04-01	04-Apr-22	TA SP321A
80283004*	1 to 5	00	03/2022	04-Apr-22	Operating instructions flow sensors



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