



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **CSANe 23ATEX1157X** Issue: **0**

4 Equipment: **Level Switch Vibracon, model LVL-M3, LVL-M4**

5 Applicant: **Pepperl + Fuchs SE**

6 Address: **Lilienthalstrasse 200  
68307 Mannheim  
Germany**

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

8 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.

9 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 60079-1: 2014      EN 60079-7: 2015 + A1: 2018  
EN 60079-11: 2012      EN 60079-26: 2021      EN 60079-31: 2014

10 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.

11 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.

12 The marking of the equipment shall include the following:



II 1/2G or 2G Ex db IIC T6...T1 Ga/Gb or Gb  
II 1/2G or 2G Ex db eb IIC T6...T1 Ga/Gb or Gb  
II 1/2D Ex ta/tb IIIC Tx °C Da/Db  
II 2D Ex tb IIIC Tx °C Db  
II 1G, 1/2G or 2G Ex ia IIC T6...T1 Ga, Ga/Gb or Gb  
1/2G or 2G Ex db ia IIC T6...T1 Ga/Gb or Gb  
II 1/2D or II 2D Ex ia IIIC Tx °C Da/Db or Db

Signed: M Halliwell

Title: Director of Operations



Project Number 80175154

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## SCHEDULE

### EU-TYPE EXAMINATION CERTIFICATE

CSANe 23ATEX1157X  
Issue 0

#### 13 DESCRIPTION OF EQUIPMENT

Liquid Level Switches Vibracon, model LVL-M3, LVL-M4 for use in explosive atmospheres caused by the presence of combustible gases, fluids, vapours or dusts, directly detect a liquid level by means of a symmetrical vibrating fork. The different electronic inserts in the transmitter enclosure, convert the fork frequency into an electrical signal.

The enclosure is either a single electronics compartment version made of plastic, aluminium or stainless steel or a dual compartment version made of aluminium providing a separate electronics and a terminal compartment. The stainless-steel sensor is directly fitted to the enclosure.

Optionally the electronics compartment can be equipped with either a Bluetooth or an LED module in combination with a windowed cover.

For the type designation code, electrical or thermal data refer to the Annex of GB/CSAE/EXTR24.0017/00.

Incorporating the following changes:

- i. Addition of a -50 °C version with an alternative potting material
- ii. Addition of new O-ring Material (FPM) at position Probe to Enclosure and 2nd-Source Suppliers for Blind Plug/Cable Gland Position;
- iii. Addition of an alternative BT module version VU121 (VA13-01 extended with model code VA13-02) with a closed battery lid to allow a T6 classification (T4 classification was based on cell temperature);
- iv. Change of electronic module FEL61 (not relevant for the type of protection (only used for Ex-d and Ex t)).
- v. Separation of Temperature tables for Ex i electronic inserts and probe types;
- vi. Electronic inserts with Variants for Foam-Detection and Foam-Blanking (not relevant for the type of protection);
- vii. Ex i Devices with cover with glass window without BT-Module or LED-Module;
- viii. New version of M12 Connecting plug stainless steel for Ex ia IIC;
- ix. Addition of an alternative Ex-d Bushing for enclosure type HA46;

#### 14 DESCRIPTIVE DOCUMENTS

##### 14.1 Drawings

Refer to Certificate Annexe.

##### 14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	08 October 2024	R80175154A	The release of the prime certificate.

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- 15 **SPECIFIC CONDITIONS OF USE** (denoted by X after the certificate number)
- 15.1 The equipment shall be install in a manner that will result in a sufficiently tight joint (IP66 or IP67 according to IEC 60529) or a flameproof joint according to IEC 60079-1 (joints specified for a volume  $\leq 100$  cm<sup>3</sup>) between one hazardous area to the other.
- 15.2 The flameproof joints are not intended to be repaired.
- 15.3 To avoid electrostatic discharge the Liquid Level Switches Vibracon shall be cleaned only with a damp cloth.
- 15.4 For Liquid Level Switches Vibracon with an aluminium enclosure, when used as EPL Ga equipment, shall be installed in such a way that, even in the event of rare incidents, ignition sources due to impact are excluded.
- 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.
- 17.3 Each welded sensor and each cemented windowed cover shall be routine tested with at least 3.6 MPa (1.5 times reference pressure).
- 17.4 For type of protection Ex ia a dielectric test has to be performed in accordance with IEC 60079-11 clause 10.3 at a test voltage of 500 Vac for at least 60 seconds between both supply circuit and the enclosure.

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# Certificate Annexe



Certificate Number: CSANe 23ATEX1157X  
Equipment: Level Switch Vibracon, model LVL-M3, LVL-M4  
Applicant: Pepperl + Fuchs SE

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## Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
16-1631CS-10	1 to 40	-	24 Jul 24	Type Label LVL-M3*, LVL-M4*

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