



## UNITED KINGDOM CONFORMITY ASSESSMENT

### 1 UK TYPE EXAMINATION CERTIFICATE

2 Equipment or Protective System Intended for use in Potentially Explosive Atmospheres  
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

3 Certificate Number: **CSAE 23UKEX1113X** Issue: **0**  
4 Product: **Level Switch Vibracon, model LVL-M3, LVL-M4**  
5 Manufacturer: **Pepperl + Fuchs SE**  
6 Address: **Lilienthalstrasse 200  
68307 Mannheim  
Germany**

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

8 CSA Group Testing UK Limited, Approved Body number 0518, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations. 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 has been assured by compliance with:

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

Except in respect of those requirements listed at Section 16 of the schedule to this certificate. The above standards may not appear on the UKAS Scope of Accreditation, but have been added through flexible scope of accreditation, which is available on request.

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

11 This UK TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of this product shall be in accordance with Regulation 41 and 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

Name :M Halliwell  
Title : Director of Operations



**SCHEDULE**

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**CSAE 23UKEX1113X  
Issue 0**

**13 DESCRIPTION OF PRODUCT**

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)).

**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.

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

- 15.1 The flameproof joints are not intended to be repaired.
- 15.2 The Liquid Level Switches Vibracon shall be installed and maintained such that hazards caused by electrostatic discharge are excluded.
- 15.3 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 and friction between the enclosure and iron or steel are excluded.

**16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS (REGULATIONS SCHEDULE 1)**

In addition to the Essential Health and Safety Requirements covered by the standards listed in Section 9, all other requirements are demonstrated in the relevant reports.



## SCHEDULE

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#### 17 PRODUCTION CONTROL

- 17.1 Holders of this certificate are required to comply with production control requirements defined in Schedule 3A, as applicable, and CSA Group Testing UK Regulations for Certificate Holders
- 17.2 Each welded sensor and each cemented windowed cover shall be routine tested with at least 3.6 MPa (1.5 times reference pressure).
- 17.3 For type of protection Ex ia a dielectric test has to be performed in accordance with EN 60079-11 clause 10.3 at a test voltage of 500 Vac for at least 60 seconds between both supply circuit and the enclosure.





## Certificate Annexe

Certificate Number: CSAE 23UKEX1113X  
Product: Level Switch Vibracon, model LVL-M3, LVL-M4  
Manufacturer: 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*

