

CERTIFICATE

(1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **KEMA 06ATEX0055** Issue Number: **2**

(4) Product: **Vibration Limit Switch Vibracon S, Types LVL-B1 and LVL-B2**

(5) Manufacturer: **Pepperl + Fuchs GmbH**

(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) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 Annex II to the Directive.

The examination and test results are recorded in confidential test report number NL/DEK/ExTR11.0072/01.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0 : 2012 + A11

EN 60079-31: 2009

except in respect of those requirements listed at item 18 of the Schedule.

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

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:



II 1/3 D Ex ta/tc IIIC T170 °C Da/Dc

Date of certification: 22 November 2016

DEKRA Certification B.V.

R. Schuller
Certification Manager



(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 06ATEX0055**

Issue No. 2

(15) **Description**

Vibration Limit Switch Vibracon S types LVL-B1 and LVL-B2 detects the limit of the level of powder or grained solids and converts it into an electrical signal.

The sensor, placed in equipment category 1, consists of a stainless steel tube with a piezo element. The electronics enclosure made of aluminium containing the electronics insert is placed in equipment category 3.

Ambient temperature range -40 °C to +70 °C.

Process temperature range -40 °C to +150 °C.

The declared surface temperature T170 °C is related on the maximum process temperature +19 K temperature rise.

Electrical data

Electronics insert type FEM22

Supply circuit: 10 to 45 Vdc, max. 0,68 W

Output: PNP transistor, max. 350 mA

Electronics insert type FEM24

Supply circuit: 19 to 55 Vdc or 19 to 253 Vac, 50/60 Hz, max. 1,3 W

Output: 2 change-over contacts, floating max. 6 A

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. NL/DEK/ExTR11.0072/01

(17) **Specific conditions of use**

None.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/DEK/ExTR11.0072/01.

(20) **Certificate history**

Issue 0 - 209136800 initial certificate

Issue 1 - 219758700 Assessment according to newer editions of the standards and Changes of enclosure type and electronic components.