

EU-TYPE EXAMINATION CERTIFICATE



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**Equipment or Protective System intended for use
in Potentially Explosive Atmospheres
Directive 2014/34/EU**

EU-Type Examination Certificate Number: **DEMKO 12 ATEX 1160776X Rev. 4**

Product: **Accelerometer, Type 5704 x x xx x xxxx**

Manufacturer: **Brüel & Kjær Vibro GmbH**

Address: **Leydeckerstraße 10, 64293 Darmstadt, Germany**

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

UL International Demko A/S, notified body number 0539 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to 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 report no. **4789723215.1.1.**

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

EN IEC 60079-0:2018

EN 60079-11:2012

If the sign "X" is placed after the certificate number, it indicates that the product is subject to special conditions for safe use specified in the schedule to this certificate.

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 the certificate.

The marking of the product shall include the following:

 **II 1 G Ex ia IIC T6/T4 Ga IP64**

Certification Manager
Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2012-08-07

Re-issued: 2021-03-29

Notified Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
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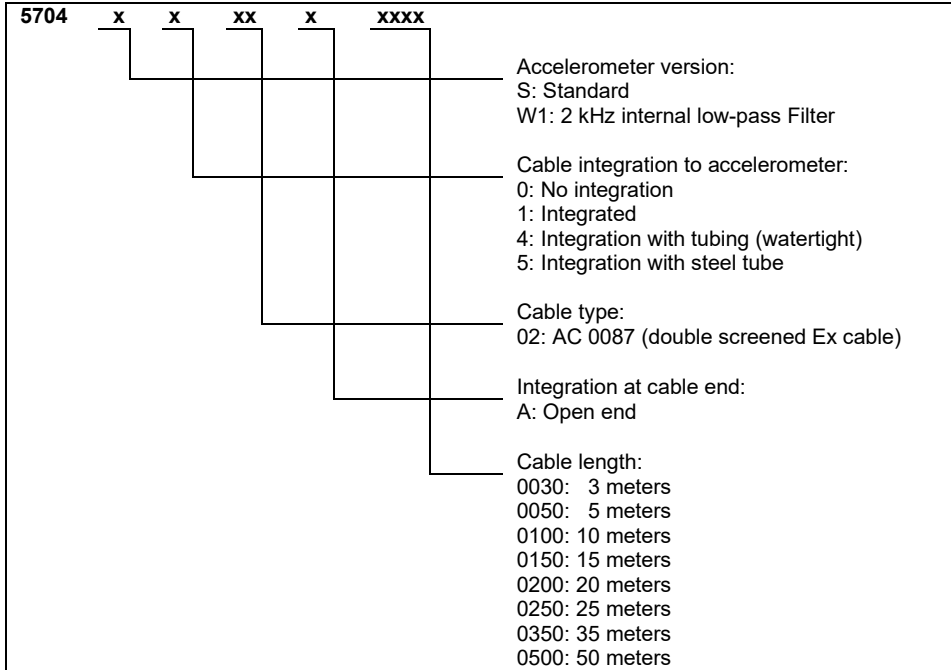
Schedule

EU-TYPE EXAMINATION CERTIFICATE No.

DEMKO 12 ATEX 1160776X Rev. 4

[15] **Description of Product**
 Accelerometer type 5704 x x xx x xxxx is an industrial accelerometer designed for vibration measuring/monitoring in potentially explosive industrial environments.
 The accelerometer utilises piezo electrical crystal and includes diode barriers to prevent sparks caused by any exceptionally high output voltages from the crystal.

Nomenclature:



Temperature range

The relation between ambient temperature and the assigned temperature class is as follows:

Ambient temperature range	Temperature class
-40 °C < Tamb < 75 °C	T6
-40 °C < Tamb < 125 °C	T4

Electrical data

Intrinsically safe specifications:

- U_i : 7.4 V
- I_i : 25 mA
- P_i : 185 mW
- L_i : 30 µH
- C_i : see table below:

Type	Length of cable [m]	Ci [nF]
5704-x-x-xx-x-0030	3	19,3
5704-x-x-xx-x-0050	5	19,7
5704-x-x-xx-x-0100	10	20,8
5704-x-x-xx-x-0150	15	21,9
5704-x-x-xx-x-0200	20	23,0
5704-x-x-xx-x-0250	25	24,1
5704-x-x-xx-x-0350	35	26,3
5704-x-x-xx-x-0500	50	29,6

Routine tests

None



[13] **Schedule**
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[16] Descriptive Documents
The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this EU-Type Examination Certificate.

[17] Specific conditions of use:
The enclosure of the accelerometer is connected to the screen of the cable. A proper grounding installation, e.g., according to EN 60079-14, is to be observed.

[18] Essential Health and Safety Requirements
The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information
The trade name "B & K Vibro" will be used as the company identifier on the marking label.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.