

TYPE EXAMINATION CERTIFICATE



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

Type Examination Certificate Number: **UL 23 ATEX 2953X Rev. 0**

Product: **u-sense Vibration Monitor**

Manufacturer: **Weidmüller Interface GmbH & Co. KG**

Address: **Klingenbergstrasse 26, 32758 Detmold, Germany**

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

UL International Demko A/S 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 Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

The examination and test results are recorded in confidential report no. **DK/ULD/ExTR23.0003/00**.

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

EN IEC 60079-0:2018

EN IEC 60079-7:2015/A1:2018

EN 60079-31:2014

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

This Type examination certificate relates only to the design of the specified product, and not to specific items of product subsequently manufactured.

The marking of the product shall include the following (marking is provided in the Schedule as a part of item 15, if applicable):

II 3 G Ex ec IIC T4 Gc
 II 3 D Ex tc IIIC T65°C Dc

Certification Manager

Thomas Wilson

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: 2024-04-22

Certification Body

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This certificate may only be reproduced in its entirety and without any change.

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Schedule TYPE EXAMINATION CERTIFICATE No. UL 23 ATEX 2953X Rev. 0

[15]

Description of Product:

u-sense Vibration Monitor, model US67-VxT-BLE, where 'x' denotes a number pertaining to sensitivity of the sensor.

Weidmüller u-sense Smart Sensors are intended to be retrofitted to common industrial systems. The sensors are designed for vibration monitoring mechanical devices such as low-voltage engines, gears, pumps, ventilators, etc. The modular mounting system allows installation of the sensor on various kinds of systems. Vibration sensors have a frequency range of 10 Hz to 1 kHz, at up to $\pm 8g$. The device is self-contained, and battery powered and communicates via Bluetooth 5.0 LE with Long Range and communicates with an associated Gateway device that is installed in the Safe Area.

Temperature range:

The ambient temperature range is -20°C to +60°C.

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Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this Type Examination Certificate.

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Specific Conditions of Use:

- "WARNING - Potential Electrostatic charging hazard – See instructions" marked on the device.

The following items to appear in the installation instructions:

- Potential Electrostatic charging hazard – Clean only with a damp cloth.
- Protect the device against direct sunlight and other ultraviolet sources.
- Equipment is to be installed in an area of low risk of impact or shall be protected from impact upon installation.

[18]

Essential Health and Safety Requirements

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

Additional information

The US67-VxT-BLE has in addition passed the tests for Ingress Protection to IP 67 in accordance with EN60529:1991+A1:2000+A2:2013.

The trademark  will be used as the company identifier on the marking label.