

Translation

# Type Examination Certificate Supplement 1

Equipment intended for use in potentially explosive atmospheres  
Directive 2014/34/EU

Type Examination Certificate Number: **BVS 16 ATEX E 021 X**

Product: **Ultrasonic sensor type RU\*\*\*U-\*\*\*\*(\*\*)-\*\*(\*\*\* )8X2(\*)-H1151/S\*\*\*\*/3GD**

Manufacturer: **Hans Turck GmbH & Co. KG**

Address: **Witzeleben Straße 7, Mülheim an der Ruhr, Germany**

This supplementary certificate extends Type Examination Certificate No. BVS 16 ATEX E 021 X to apply to products designed and constructed in accordance with the specification set out in the appendix of the said certificate but having any variations specified in the appendix attached to this certificate and the documents referred to therein.

DEKRA Testing and Certification GmbH 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 the confidential Report No. PP 16.2092 EU.

The Essential Health and Safety Requirements are assured in consideration of:

<b>EN IEC 60079-0:2018</b>	<b>General requirements</b>
<b>EN IEC 60079-7:2015/A1:2018</b>	<b>Increased Safety “e”</b>
<b>EN IEC 60079-15:2019</b>	<b>Type of Protection “n”</b>
<b>EN 60079-31:2014</b>	<b>Protection by Enclosure “t”</b>

If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the appendix to this certificate.

This 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.

The marking of the product shall include the following:

	<b>II 3G Ex ec nC IIC T6 Gc</b>	with teach button
	<b>II 3D Ex tc IIIC T70°C Dc</b>	
	or	
	<b>II 3G Ex ec IIC T6 Gc</b>	without teach button
	<b>II 3D Ex tc IIIC T70°C Dc</b>	

DEKRA Testing and Certification GmbH  
Bochum, 2020-11-17

Signed: Jörg-Timm Kilisch

Managing Director



13 Appendix

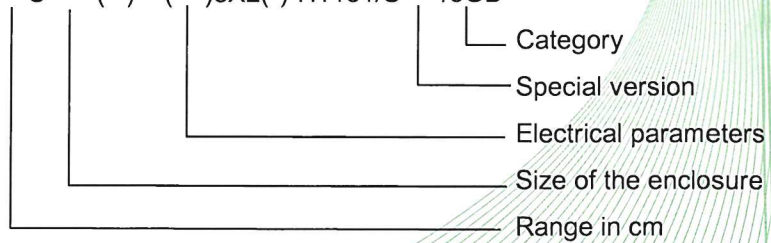
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**BVS 16 ATEX E 021 X  
Supplement 1**

15 Product description

15.1 Subject and type

Ultrasonic sensor type RU\*\*\*U-\*\*\*\*(\*\*)-\*\*(\*\*\* )8X2(\*)-H1151/S\*\*\*\*/3GD



15.2 Description

The ultrasonic sensor is used for contactless capture of objects. The ultrasonic diffuse mode sensor detects all objects that echo back ultrasonic waves. The sensor consists of a stainless steel enclosure with an external thread in size M18 or M30. For adjusting the measuring range the sensor is optionally equipped with teach buttons.

The ultrasonic sensor is designed in type of protection 'ec' for use in Category 3G and in type of protection by enclosure 'tc' for Category 3D. The teach button is designed in type of protection "nC".

**Reason for this supplement:**

- Change of the type code
- Change of the manufacturer
- Updating of the standards

**15.3 Parameters**

**15.3.1**

Electrical data

Nominal voltage

15... 30

VDC

Nominal current

≤ 150

mA

Ultrasonic frequency

80 up to 300

kHz

**15.3.2**

Thermal data

Ambient temperature range

-25 °C ≤ T<sub>A</sub> ≤ 45 °C

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**Special Conditions for Use**

**17.1**

The connection of the sensor with integrated M12 flange socket must be equipped with an M12 connector separately assessed for this purpose. The connector has to comply with the requirements according EN/IEC 61076-2-101.

**17.2**

The external earthing has to be established by the end user in the end use application.

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**Essential Health and Safety Requirements**

The Essential Health and Safety Requirements are covered by the standards listed under item 9.

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**Drawings and Documents**

Drawings and documents are listed in the confidential report.

We confirm the correctness of the translation from the German original.  
In the case of arbitration only the German wording shall be valid and binding.

DEKRA Testing and Certification GmbH  
Bochum, 2020-11-17  
BVS-Pe/Mu A 20200643

  
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Managing Director