

Translation

1 **EU-Type Examination Certificate**

2 **Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014**

3 EU-Type Examination Certificate Number: **BVS 16 ATEX E 064 X** Issue: **01**

4 Equipment: **Level limit switch type Mononivo MN40*0***

5 Manufacturer: **UWT GmbH**

6 Address: **Westendstraße 5, 87488 Betzigau, Germany**

7 This product and any acceptable variations thereto are specified in the appendix to this certificate and the documents referred to therein.

8 DEKRA Testing and Certification GmbH, Notified Body number 0158, 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 the confidential Report No. BVS PP 16.2143 EU. This issue of the EU-Type Examination Certificate replaces the previous issue of the EU-Type Examination Certificate BVS 16 ATEX E 064.

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

EN IEC 60079-0:2018	General requirements
IEC 60079-26:2021	Separation Elements or combined Levels or Protection
IEC 60079-31:2022	Protection by Enclosure “t”

10 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.

11 This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance to the Directive 2014/34/EU. 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 1/2D Ex ta/tb IIIC T°C Da/Db** * see thermal data

DEKRA Testing and Certification GmbH
Bochum, 2022-04-07

Signed: Jörg-Timm Kilisch

Managing Director

13 **Appendix**

14 **EU-Type Examination Certificate**

BVS 16 ATEX E 064 X issue 01

15 **Product description**

15.1 **Subject and type**

Level limit switch type Mononivo
 MN 4020* – short extension length
 MN 4030* – pipe extension
 MN 4040* – pipe extension screwed

* This asterisks represents further type variants which are documented in drawing 004-01ATEX

15.2 **Description**

The level limit switch type Mononivo MN 40*0 is a modular concept of level limit switches. It is designed for monitoring the levels in any kind of containers, bins, silos, funnels and pipes.

The level limit switch is able to detect many kinds of bulk materials which are grainy, powdery or muddy. In general the design of the units can vary in:

- the type of housing
- the cable inlets
- the electronics
- the form of the sensor extension
- the form of the process connection (for example different threaded bushes and flanges)
- the materials for the process connection and the sensor extension
- different options.

Reasons for the issue:

- Updating to the current standards
- A special condition for safe (electrostatics) use is added and due to that an X-marking is given.

15.3 **Parameters**

15.3.1 **Electrical data**

15.3.1.1	Supply or or	universal voltage relay (DPDT) 3 wire PNP	21 up to 230 V +/-10 %*, 50 up to 60 Hz, 22 VA 22 up to 45 V +/-10 %* DC, 2 W 20 up to 40 V +/-10 %* DC 0.5 A (input current) * including +/-10 % of EN 61010.
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15.3.1.2	Signal output or	relay (DPDT) 3 wire PNP	max. 250 V AC, 8 A, non-inductive max. 30 V DC, 5 A, non-inductive transistor, max. 0.4 A
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15.3.2 Thermal data

Permitted ambient temperature at the electronic enclosure (EPL Db)	Max. process temperature (EPL Da)	Max. surface temperature (EPL Da)	Max. surface temperature (EPL Db) *
- 40 °C ... + 60 °C	-40 °C...120 °C	T ₂₀₀ 120 °C	120 °C
	-40 °C...130 °C	T ₂₀₀ 130 °C	130 °C
	-40 °C...140 °C	T ₂₀₀ 140 °C	140 °C
	-40 °C...150 °C	T ₂₀₀ 150 °C	150 °C

* At the process connection

Max. surface temperature of the electronic enclosure with thermo fuse limited to 120 °C

Permitted temperature at sensor extension, process connection -40 °C ... +150 °C

15.3.3 Degree of protection according to IEC 60529

IP6x

16 Report Number

BVS PP 16.2143 EU, as of 2022-04-07

17 Specific Conditions of Use

The apparatus shall be installed in a way that danger caused by electrostatic charges is avoided.

18 Essential Health and Safety Requirements

Met by compliance with the requirements mentioned in item 9.

19 Remarks and additional information

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, 2022-04-07
BVS-Hk/Mu A 20210607 / 3423588



Managing Director