



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX BVS 16.0057** issue No.: **0** Certificate history:

Status: **Current**

Date of Issue: **2016-09-07** Page 1 of 3

Applicant: **UWT GmbH
Westendstraße 5
87488 Betzigau
Germany**

Equipment: **Level limit switch type Mononivo MN40*0***
Optional accessory:

Type of Protection: **Equipment dust ignition protection by enclosure "t"**

Marking: **Ex ta/tb IIIC T°C Da/Db
* see thermal data**

Approved for issue on behalf of the IECEx
Certification Body:

Dr. F. Eickhoff

Position:

Deputy Head of Certification Body

Signature:
(for printed version)

Date:

2016-09-07

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:





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Manufacturer: **UWT GmbH**
Westendstraße 5
87488 Betzigau
Germany

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition: 6.0

IEC 60079-31 : 2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition: 2

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[DE/BVS/ExTR16.0056/00](#)

Quality Assessment Report:

[DE/BVS/QAR11.0007/03](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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

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.

Parameters

See Annex

CONDITIONS OF CERTIFICATION: NO



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Annex
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Parameters

Electrical data

Supply	universal voltage	21 up to 230 V +/-10 %*, 50 up to 60 Hz, 22 VA or
	relay (DPDT)	22 up to 45 V +/-10 %* DC, 2 W
or	3 wire PNP	18 up to 50 V +/-10 %* DC 0.5 A (input current)
		* including +/-10 % of EN 61010.

Signal output	relay (DPDT)	max. 250 V AC, 8 A, non-inductive
		max. 30 V DC, 5 A, non-inductive
or	3 wire PNP	transistor, max. 0.4 A

Thermal data

Permitted ambient temperature at the electronic enclosure (Zone 21)	Max. process temperature (Zone 20)	Max. surface temperature
-40 °C ... +60 °C	≤ 120 °C	120 °C
	≤ 130 °C	130 °C
	≤ 140 °C	140 °C
	≤ 150 °C	150 °C

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

Degree of protection according to IEC 60529 IP6x