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Translation

EU-Type Examination Certificate

- 2 Equipment intended for use in potentially explosive atmospheres Directive 2014/34/EU
- 3 EU-Type Examination Certificate Number: BVS 17 ATEX E 064 X
- 4 Product: Optical Overfill Prevention Sensor and Product-Identification-Device

type O²-PID

- 5 Manufacturer: FAFNIR GmbH
- 6 Address: Schnackenburgallee 149 c, 22525 Hamburg, Germany
- 7 This product and any acceptable variations thereto are specified in the appendix to this certificate and the documents referred to therein.
- DEKRA EXAM 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. BV\$ PP 17.2164 EU

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

EN 60079-0:2012 + A11;2013 | General requirements EN 60079-11:2012 | Intrinsic Safety "i" |

EN 60079-26:2015//////Equipment/with/equipment/protection/level (EPL) Ga

- 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 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 this/certificate.
- 12 The marking of the product shall/include/the/following:



II 1G Ex ia IIB T4 Ga II 1/2G Ex ia IIB T4 Ga/Gb II 2G Ex ia IIB T4 Gb

DEKRA EXAM GmbH Bochum, 2017-10-20

Signed: Dr Franz Eickhoff

Signed: Dr Michael Wittler

Certifier

Approver

DAKKS
Deutsche
Abtreditierungsstelle
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- 13 Appendix
- 14 EU-Type Examination Certificate BVS 17 ATEX E 064 X
- 15 Product description
- 15.1 Subject and type

Optical Overfill Prevention Sensor and Product-Identification-Device type O²-PID

15.2 **Description**

The Optical Overfill Prevention Sensor and Product-Identification-Device type O²-PID is used as level detector in fuel stations.

The device comprises of a tubular stainless steel enclosure of specified diameter and various length, adapted to individual requirements.

The stainless steel enclosure is fitted with optical prism at one end and a cable gland for the permanently connected cable (length 2 m) carrying the intrinsically safe supply-/and signal-circuit at the other end.

Electronic components are arranged on a printed circuit board located inside the tubular enclosure Due to application, the Optical Overfill Prevention Sensor and Product-Identification-Device is mounted in the boundary wall separating EPL Ga area from less hazardous area, or, by means of suitable mounting assembly, completely in EPL Ga or EPL Gb area.

With reference to application, the marking Ex ia IIB T4 Ga', or Ex ia IIB T4 Gb', or Ex ia IIB T4 Gb' applies.

Listing of all components used referring to older standards hot applicable

15.3 Parameters

15.3.1 Supply- and signal-circuit, level of protection Exia/IB

Voltage ////////////////////////////////////	///1/5/	/N///
Current ////////////////////////////////////	//300/	//m/A/
Power ////////////////////////////////////	11,00/	//m\\\
Effective internal capacitance//////Ci/////	///1/2//	//n/F//
Effective internal/inductance////////////////////////////////////	////5//	//uH//
	11111	111111

15.3.2 Optical radiation

Wavelength	////850/nm/+/-/15/ ≤//20	//nm//
Radiated continuous power /////	/////////////////////////////////////	//m/V/

The optical radiation of the device has been assessed on the basis of IEC/60079-28: 2015 An ignition risk for Group IIB does not exist.

15.3.3 Ambient temperature range ///////-40°C \$\Ta\\$+60°C

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16 Report Number

BVS PP 17.2164 EU, as of 2017-10-20

- 17 Special Conditions for Use
- 17.1 Installation completely in areas requiring EPL Gb equipment None
- 17.2 Installation in areas providing EPL Ga requirements on both sides of the mounting assembly or in the boundary wall separating EPL Ga area from less hazardous area
- 17.2.1 The installation of the Optical Overfill Prevention Sensor and Product-Identification-Device in the mounting assembly or in the boundary wall separating areas with EPL Ga requirements from less hazardous areas shall be executed in such a way, that:
 - all metallic parts are conductively connected to the metallic mounting assembly // the boundary wall, or
 - if the mounting assembly / the boundary wall is made of plastic material, all/insulated metal parts are connected to equipotential bonding.
- 17.2.2 The installation in the boundary wall shall provide degree of protection ≥ IP67 between EPL Ga area and less hazardous area.
- 17.2.3 In case of EPL Ga area on both sides of the mounting assembly, exposition to electrostatic charge effects of the permanently connected cable shall be excluded and the cable gland in the wall separating EPL Ga area from less hazardous area shall provide degree of protection ≥ IP67 between EPL Ga area and less hazardous area.
- 18 Essential Health and Safety Requirements

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

19 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 EXAM/GmbH// Bochum, dated 2017-10-20/ BVS-Scha/Nu//A 20170383

> > Certifier

Approver

