

Translation

EU-Type Examination Certificate

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

EU-Type Examination Certificate Number: **BVS 16 ATEX E 059 X**

Product: **Optical detector Spill Watch Ex / Spill Watch Ex AC**

Manufacturer: **OPTIMARE Systems GmbH**

Address: **Am Luneort 15a, 27572 Bremerhaven, Germany**

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

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. BVS PP 16.2113 EU.

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

EN 60079-0:2012 + A11:2013	General requirements
EN 60079-5:2010	Type of protection "n"
EN 60079-28:2016	Optical radiation "op is/pr/sh"

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of 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.

The marking of the product shall include the following:

Ⓔ II 3(1)G Ex nR [op is Ga] IIC T4 Gc

DEKRA EXAM GmbH
Bochum, 2016-06-17

Signed: Dr. Eickhoff

Certifier

Signed: Dr. Wittler

Approver

13 **Appendix**

14 **EU-Type Examination Certificate**

BVS 16 ATEX E 059 X

15 **Product description**

15.1 **Subject and type**

Optical detector Spill Watch Ex / Spill Watch Ex AC

15.2 **Description**

The optical detector Spill Watch nR Ex / Spill Watch Ex AC is used for optical surface detection of oil contamination. The optical detector Spill Watch nR Ex consists of a separately decelerated empty enclosure in type of protection "n" (restricted breathing "nR" with supplier's declaration 060315/OPT-1) and an optical unit in type of protection Optical Radiation "op is" inside of the enclosure.

The optical detector Spill Watch nR Ex / Spill Watch Ex AC is used for installation in areas with EPL Gc and the optical radiation is allowed to detect in areas up to EPL Ga.

15.3 **Parameters**

Electrical parameters	Version	
	SpillWatch Ex	SpillWatch Ex AC
Power supply		
Rated voltage	12 - 24 V DC	100 - 240 V DC 50 - 60 Hz
Rated power	20 W	25 W
Rated current	0,8 A (24 V)	110 mA (230 V)
Analog signal output		
Current loop	4 -20 mA	
Voltage output	0 - 10 V	
Ambient temperature range	-10 °C up to +45 °C	

16 **Report Number**

BVS PP 16.2113 EU, as of 2016-06-17

17 **Special Conditions for Use**

The gasket of the enclosure cover is necessary to check for damage and the correct fit before reclosing.

18 **Essential Health and Safety Requirements**

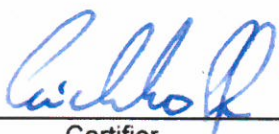
The Essential Health and Safety Requirements are covered by the standards listed under item 9.

19 **Drawings and Documents**

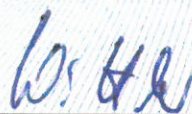
Drawings and documents are listed in the confidential report.

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 2016-06-17
BVS-Pz/Nu A 20141113



Certifier



Approver