



1 **EU-Type Examination Certificate**

2 Component Intended for use on/in an Equipment or Protective System Intended for use in Potentially Explosive Atmospheres – Directive 2014/34/EU

3 Type Examination Certificate Number: **KIWA 18ATEX0017 U Issue: 1**

4 Product: **Optocoupler 522-03-i, 522-03-i-BV715, 525-03-0-i, 535-04-0-i, 567-70-1-i**

5 Manufacturer: **StandexMeder Electronics GmbH**

6 Address: **Robert-Bosch-Straße 4, 78224 Singen, Germany**

7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Kiwa Nederland B.V., notified body number 0620 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 confidential ATEX Assessment Report No. 180401336.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN 60079-0 : 2012 + A11 : 2013 EN 60079-11 : 2012**

10 If the sign "U" is placed after the certificate number, it indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a bases for certification of an equipment of protective system.

11 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:



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Pieter van Breugel  
Certification Officer

Issue date:

12 July 2018

First issue:

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This certificate shall, as far as applicable, be revised before the date of cessation of presumption of conformity of (one of) the included standards above as communicated in the Official Journal of the European Union.

© Integral publication of this certificate in its entirety and without any change is allowed.



## 13 SCHEDULE

### 14 EU-Type Examination Certificate KIWA 18ATEX0017 U Issue No. 1

#### 15.1 Description of Product

Optocoupler models 522-03-i, 522-03-i-BV715, 525-03-0-i, 535-04-0-i, 567-70-1-i serve for galvanic isolation between intrinsically safe and non-intrinsically safe circuits within associated apparatus.

Either the emitter or the detector is in type of protection intrinsic safety.

Service temperature range:

Model 567-70-1-i: -20 °C to +85 °C.

Models 522-03-i, 525-03-0-i, 535-04-0-i: -40 °C to +85 °C.

Model 522-03-i-BV715 : -60 °C to +85 °C.

#### 15.2 Electrical Data

The maximum values of rated current and voltage of the emitter and the detector shall be taken from the instructions of the manufacturer.

Maximum power dissipation emitter is 400 mW.

Maximum power dissipation detector is 600 mW.

The emitter and the detector are infallibly galvanically separated up to peak voltage of 375 V.

#### 15.3 Instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

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180401336.

#### 17 Schedule of Limitations

The optocouplers must be mounted such that the connection pins are protected by a degree of protection of at least IP20.

#### 18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at section 9.

#### 19 Drawings and Documents

As listed in ATEX Assessment Report No. 180401336.



## ATEX Assessment Report - Cover sheet

Report No.: 180401336 Issue No. 1

Product: Optocoupler  
Model: 522-03-i, 522-03-i-BV715, 525-03-0-i, 535-04-0-i, 567-70-1-i

Applicant  
Name: StandexMeder Electronics GmbH  
Address: Robert-Bosch-Straße 4, 78224 Singen

Country: Germany

Manufacturer  
Name: StandexMeder Electronics GmbH  
Address: Robert-Bosch-Straße 4, 78224 Singen

Country: Germany

Issue date: 2018-07-10  
Revision date: -  
Author: Paul van Nijen

Reviewer: Kees van Es

Endorsed by: Harry de Wild

  
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Kiwa Nederland B.V. and/or its associated companies disclaim liability for any direct, indirect, consequential or incidental damages that may result from the use of the information or data, or from the inability to use the information or data.

This Test Report contains the test results related to the sample(s) tested. The tests results cannot be used for any statement related to the quality of the equipment from running production.

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## 1. Project No. 180401336

### 1.1. Standards

The components as described in 1.3 has been subjected to assessment and tests to the requirements of the following standards:

EN 60079-0 : 2012 + A11 : 2013  
EN 60079-11 : 2012

### 1.2. Assessment period

The assessment has been carried out between April and July 2018.

### 1.3. Description of the equipment

The equipment is described in the IECEx Test Report listed in section 6.

### 1.4. Marking

The Component marking includes the following:

- the name or registered trade mark of the manufacturer;
- the manufacturer's type identification (designation of series or type);
- the year of construction (included in the serial number);
- the name or mark of the certificate issuer;
- the certificate reference;
- "U"-marking;
- specific marking of explosion protection, group and category and specific marking for explosive atmospheres as follows:



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## 2. Routine tests

Refer to the tests listed in the Cover sheet of the IECEx test report listed in section 6.

## 3. Instructions

The mounting instructions provided with the equipment shall be followed in detail in order to assure safe operation.

## 4. Test results and deviations

The results of the evaluation and tests of the components are listed in IECEx Test Report listed in section 6.

There are no additions to, deviations from or exclusions from the applicable test methods and requirements of the standards listed in section 1.1.

Where applicable, the uncertainty of measurements was determined using the IECEx Operational Document OD 012, version 2.

## 5. Conclusion

The components as described in the IECEx Test report were found to meet the requirements of the standards listed in 1.1. Certification of these components are recommended.

## **6. Content of the ATEX Assessment Report**

The ATEX Assessment Report consists of this Cover sheet and IECEX Test Report No. NL/KIWA/ExTR18.0010/00, issued on 10 July 2018, that includes the national Differences related to the standards listed in section 1.1.