



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEx PTB 10.0060U** Page 1 of 5 [Certificate history:](#)
Issue 0 (2011-01-07)

Status: **Current** Issue No: 1

Date of Issue: 2020-06-30

Applicant: **R. STAHL Schaltgeräte GmbH**
Am Bahnhof 30
74638 Waldenburg (Württ.)
Germany
Germany

Ex Component: splice cassette type 8186/*

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **General requirements, Optical radiation**

Marking: Ex op pr IIC Gb

Approved for issue on behalf of the IECEx
Certification Body:

Dr. F. Lienesch

Position:

**Head of Department "Explosion Protection in Sensor
Technology and Instrumentation"**

Signature:
(for printed version)

Date:

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 www.iecex.com or use of this QR Code.



Certificate issued by:

Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100
38116 Braunschweig
Germany





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Manufacturer: **R. STAHL Schaltgeräte GmbH**
Am Bahnhof 30
74638 Waldenburg (Württ.)
Germany
Germany

Additional
manufacturing
locations:

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 equipment 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 60079-0:2007-10 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:5

IEC 60079-28:2006-08 Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
Edition:1

This Certificate **does not** indicate compliance with 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/PTB/ExTR10.0081/01](#)

Quality Assessment Report:

[DE/BVS/QAR10.0002/15](#)



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Ex Component(s) covered by this certificate is described below:

The splice cassette of type 8186/* is an Ex-component which is used for the connection of optical fibres inside of hazardous areas. Considering the additional requirements from section "Schedule of limitations", it complies with all requirements for equipment protection level Gb or Gc or Db or Dc respectively.

The permissible range of the ambient temperature is -55°C up to +75 °C.

SCHEDULE OF LIMITATIONS:

1. For the application in hazardous areas due to explosive gas atmospheres the splice cassette of type 8186/* shall be mounted into an additional enclosure for which an IECEx-type examination certificate is available and which fulfils the minimum degree of protection IP 54 according to IEC 60529 and complies with the requirements regarding the permissible ambient temperature range.
2. For the application in hazardous areas due to combustible dusts the splice cassette of type 8186/* shall be mounted into an additional enclosure for which an IECEx-type examination certificate is available and which fulfils the minimum degree of protection IP 64 according to IEC 60529 and complies with the requirements regarding the permissible ambient temperature range.
3. Outside of the above mentioned protective enclosure the optical fibres / optical fibre cables shall be installed as such, that mechanical damage is prevented.
4. Only cable glands may be used that are certified with an IECEx-type examination certificate and that meet the required minimum degree of protection according to IEC 60529 of the enclosures required for the gas or dust hazardous area and which meet the requirements regarding the permissible ambient temperature range.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

The changes concern the expansion of the permissible ambient temperature range for the splice cassette 8186 / * from -40 ° C to +60 ° C to -55 ° C to +75 ° C.

In addition, the test specification was adapted to the current standards.



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Additional information:

Schedule of limitations:

1. For the application in hazardous areas due to explosive gas atmospheres the splice cassette of type 8186/ shall be mounted into an additional enclosure for which an IECEx certificate is available and which fulfils the minimum degree of protection IP 54 according to IEC 60529 and complies with the requirements regarding the permissible ambient temperature range.
2. For the application in hazardous areas due to combustible dusts the splice cassette of type 8186/ shall be mounted into an additional enclosure for which an IECEx certificate is available and which fulfils the minimum degree of protection IP 65 according to IEC 60529 and complies with the requirements regarding the permissible ambient temperature range.
3. Outside of the above mentioned protective enclosure the optical fibres / optical fibre cables shall be installed as such, that mechanical damage is prevented.
4. Only cable glands for which an IECEx certificate is available and which fulfil the minimum degree of protection IP 65 according to IEC 60529 and comply with the requirements regarding the permissible ambient temperature range may be used as cable entry fittings into the protective enclosure.

The Installation of the electrical component requires a further assessment by an ExCB.