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 IBE 12.0029U**

Certificate history:
Issue 0 (2012-11-14)

Status: **Current**

Issue No: 1

Date of Issue: 2020-01-14

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

Ex Component: Ethernet Terminal type 8187

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: **Increased safety "e"**

Marking: **Ex eb IIC Gb**

Approved for issue on behalf of the IECEx Certification Body: **Kai Willamowski**

Position: **Head of department Certification Body**

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:

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
09599 Freiberg
Germany

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Certificate No.: **IECEx IBE 12.0029U**

Date of issue: 2020-01-14 Issue No: 1

Manufacturer: **R. STAHL Schaltgeräte GmbH**
Am Bahnhof 30
74638 Waldenburg
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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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 Reports:

DE/IBE/ExTR12.0043/00 DE/IBE/ExTR12.0043/01

Quality Assessment Report:

DE/BVS/QAR10.0002/15

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

The Ethernet Terminal, type 8187, is an Ex component to make connections with Ethernet cables (twisted pair cables, 4 pairs of conductors) in hazardous locations of the zones 1 and 2. This component is intended to be mounted into a suitable enclosure.

Technical data

Operation temperature range		-40 °C to +75 °C	
Degree of protection		IP 20	
Rated voltage		U_N	≤ 63 V DC
Voltage between two poles			≤ 32 V DC
Rated current		I_N	0.5 A
Rated power		P_N	15.4 W
Terminal Cross Sections		0.2 … 1.5 mm² (AWG 24 … 16), stranded	
		0.2 … 2.5 mm² (AWG 24 … 14), solid	

SCHEDULE OF LIMITATIONS:

When used in Zone 21 or 22, the device is to be installed in a protective enclosure or in a cabinet according to IEC 60079-31. This enclosure (or cabinet) has a suitable degree of protection (at least IP64).

When used in Zone 1 or 2, the device is to be installed in a protective enclosure or in a cabinet according to IEC 60079-0. This enclosure (or cabinet) has a suitable degree of protection (at least IP54).

At the installation of the component the minimum clearance and creepage distances in accordance with IEC 60079-7 have to be considered.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Assessment in accordance with the current standards, which results in marking changes and update of the documentation. Increase of the operating temperature range from +60 °C to +75 °C.

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Additional information:
Schedule of Limitations