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**	Page 1 of 4
Status:	**Current**	Issue No: 2
Date of Issue:	2024-10-01	

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:

Dr.-Ing. Peter Cimalla

Position:

Deputy Head of department Certification Body

Signature:
(for printed version)

Date:
(for printed version)

Certificate issued by:

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
09599 Freiberg
Germany

IECEx Certificate of Conformity

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

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 component 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 component listed has successfully met the examination and test requirements as recorded in:

Test Reports:

DE/IBE/ExTR12.0043/00   DE/IBE/ExTR12.0043/01   DE/IBE/ExTR12.0043/02

Quality Assessment Report:

DE/BVS/QAR10.0002/20

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

The Ethernet Terminal type 8187 is an Ex Component intended for connecting Ethernet cables (twisted pair cables, 4 pairs of conductors) in hazardous areas requiring equipment of EPL Gb or Gc. The Ethernet Terminal type 8187 may be used for PoE, PoE+, PoE++ or other standards, when meeting the maximum values. This component has to be assembled in a suitable enclosure.

Technical data

Service temperature range	-40 °C to +100 °C
Degree of protection	IP20
Rated voltage	U_N ≤ 63 V DC
Voltage between two poles	≤ 32 V DC
Rated current	I_N ≤ 2.5 A
Terminal cross sections	0.2 … 1.5 mm² (AWG 24 … 16)

SCHEDULE OF LIMITATIONS:

The device must be installed in an enclosure with recognized type of protection in accordance with IEC 60079-0 and a degree of protection of at least IP54 in accordance with IEC 60529.

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

The service temperature range is -40 °C…+100 °C.

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
New terminals have been assessed.

The technical data have been changed.