



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx EMT 16.0031X

Issue No: 0

Certificate history:

Issue No. 0 (2017-08-23)

Status: **Current**

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Date of Issue: **2017-08-23**

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

Equipment: **HFisolator Typ 9730/26-11**

*Optional accessory:*

Type of Protection: **intrinsic safety "i", non-sparking "nA"**

Marking:

Ex nA [Ex ia Ga] IIC T6 Gc

Ex ic [Ex ia Da] IIIC T85°C Dc

[Ex ia Ma] I

Tamb = -40 °C ≤ Ta ≤ +80°C

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

Stephen Winsor

*Position:*

Certification Manager

*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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**Element Materials Technology**  
Unit 1 Pendle Place  
Skelmersdale  
West Lancashire  
United Kingdom





# IECEX Certificate of Conformity

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

Additional Manufacturing location(s):

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 electrical apparatus 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:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-11 : 2011</b> Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-15 : 2010</b> Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"

*This Certificate **does not** indicate compliance with electrical 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:

[GB/EMT/ExTR16.0029/00](#)

Quality Assessment Report:

[DE/BVS/QAR10.0002/12](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The HFisolator Typ 9730/26-11 is a RF galvanic isolator. It is intended to allow the connection of any RF transmitter within certain power and frequency limits to any appropriate antenna using coaxial cables. The device provides galvanic isolation to frequencies in the range of 120Mhz to over 8Ghz. It provides an open circuit to DC and low frequency AC signals.

The apparatus is ATEX Category 3 equipment providing 'ia' outputs into Zone 0/20. It can also be situated in non-hazardous areas providing 'ia' outputs into 'M1' mining areas. It consists of a machined hollow box section, aluminium body with two side plates. The unit is fitted with two bulkhead mounted SMA connectors and is also fully encapsulated to form a completely sealed product.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

See Annex attached to this certificate.

### Annex:

[Annex to IECEx EMT 16.0031X is 0 r.pdf](#)



**Element Materials Technology,**  
 Unit 1, Pendle Place,  
 Skelmersdale,  
 West Lancashire, WN8 9PN,  
 United Kingdom

**Annex to IECEx Certificate of Conformity**

**IECEx EMT 16.0031X issue No.:0**

<b>“Conditions of Use” for Ex Equipment:</b>		
1. The RF power input to the device must be limited to defined power levels dependent on the Equipment/Gas Group:		
Maximum safe input power, defined as in normal operation without user-settable software limits and must include antenna gain consideration.	Group I Group IIC Group IIB Group IIA Group III	6.0 W (33.7 dBm) 2.0 W (33.0 dBm) 3.5 W (33.4 dBm) 6.0 W (33.7 dBm) 6.0 W (33.7 dBm)
2. The product must be mounted such that it is earthed before use in accordance with clause 15 in IEC 60079-0:2011.		
3. The product shall be mounted in an IECEx/ATEX approved Ex ‘n’ or Ex ‘e’ enclosure with minimum IP54 rating while situated in hazardous gas atmospheres.		
4. The product must be mounted in an IECEx/ATEX approved Ex ‘e’ enclosure with minimum IP54 rating while situated in hazardous dust atmospheres.		
5. No live connections or disconnections of connectors must be made on the product while situated in hazardous area.		

**Manufacturer’s Documents**

Title:	Drawing No.:	Rev. Level:	Date:
CD iSOLATE501 PCB Certification Drawing	409580	2.1	2015-06-16
DE iSOLATE501 STAHL Label Certification	418367	1.0	2016-01-13
CD iSOLATE501 GENERAL ASSEMBLY CERTIFICATION (2 sheets)	412479	2.0	2016-09-14
R. Stahl Betriebsanleitung / Operating instruction (2 pages)	243125 /973060310010	BA00	2015-04-14