

# CERTIFICATE OF CONFORMITY



Member of the FM Global Group

## 1. HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS

2. Certificate No: **FM23US0068X**
3. Equipment:  
(Type Reference and Name) **9786/12-11, 9786/15-12 Media Converters**
4. Name of Listing Company: **R. STAHL Schaltgeräte GmbH**
5. Address of Listing Company: **Am Bahnhof 30, D-74638 Waldenburg (Württ.),  
Germany**

6. The examination and test results are recorded in confidential report number:

PR465946 dated 2 November 2023

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM 3600:2022, FM 3610:2021, FM 3611:2021, FM 3810:2021, ANSI/UL 60079-0:2020, ANSI/UL 60079-7:2021,  
ANSI/UL 60079-11:2018, ANSI/UL 60079-18:2019, ANSI/UL 60079-28:2021, ANSI/UL 61010-1:2018,  
ANSI/UL 121201:2017

8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

10. Equipment Ratings:

See Annex.

11. The marking of the equipment shall include:

See Annex.

### Certificate issued by:

J.E. Marquedant  
VP, Manager - Electrical Systems

2 November 2023

Date

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

**THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE**

FM Approvals LLC, 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA  
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: [information@fmapprovals.com](mailto:information@fmapprovals.com) [www.fmapprovals.com](http://www.fmapprovals.com)

F 347 (Apr 21)



## SCHEDULE

US Certificate Of Conformity No: FM23US0068X



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### 12. Description of Equipment:

**General** - The media converters convert electrical RS485 and RS485-IS signals into fiber optic signals and vice versa. Bus signals from PROFIBUS DP, Modbus RTU and R.STAHL ServiceBus can be transmitted via the fiber optic paths over distances of at least 2500 m. The media converters series 9786 can be interconnected via the intrinsically safe FO interfaces (op is). In this way, different fiber optic network structures (line, ring topologies, etc.) can be established.

**Ratings** – Refer to the Control Drawing 9786 6 031 001 1.

### 13. Specific Conditions of Use:

1. Connections to the devices shall be in accordance with drawing 9786 6 031 001 1, and the manufacturer's instructions.
2. The equipment shall be installed in a general-purpose enclosure meeting the requirements of ANSI/ISA 61010-1.

### 14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

### 15. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

### 16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
2 November 2023	Original Issue.

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F 347 (Apr 21)



Page 2 of 3

## SCHEDULE

US Certificate Of Conformity No: FM23US0068X



# ANNEX

## 9786/12-11

### Equipment Ratings:

Nonincendive for Class I, Division 2, Groups A, B, C and D; T4; Increased Safety, Intrinsic Safety and Encapsulation for Class I, Zone 1 with Intrinsically Safe Connections to Class 1, Zone 0 AEx eb mb ib [op is Ga], Group IIC T4 Gb; Intrinsic Safety connections to Zone 20 [AEx op is Da], Group IIIC; Intrinsic Safety connections to Zone 21 [AEx ib Db], Group IIIC; hazardous (classified) locations.

### Markings:

Class I Division 2, Groups A, B, C, D; T4  
Class I Zone 1 AEx eb mb ib [op is Ga] IIC T4 Gb; Entity - 9786 6 031 001 1  
Zone 20 [AEx op is Da] IIIC; Entity - 9786 6 031 001 1  
Zone 21 [AEx ib Db] IIIC; Entity - 9786 6 031 001 1  
Ta = -40°C to +70°C

### Description of Equipment:

9786/12-11 Media converter

## 9786/15-12

### Equipment Ratings:

Nonincendive for Class I, Division 2, Groups A, B, C and D; T4; Increased Safety, Intrinsic Safety and Encapsulation for Class I, Zone 2 with Intrinsically Safe Connections to Class I, Zone 0 for AEx ec mc ic [op is Ga], Group IIC T4 Gc; Intrinsic Safety connections to Zone 20 [AEx op is Da], Group IIIC; hazardous (classified) locations.

### Markings:

Class I Division 2, Groups A, B, C, D; T4  
Class I Zone 2 AEx ec mc ic [op is Ga] IIC T4 Gc; Entity - 9786 6 031 001 1  
Zone 20 [AEx op is Da] IIIC; Entity - 9786 6 031 001 1  
Ta = -40°C to +70°C

### Description of Equipment:

9786/15-12 Media converter

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