

CERTIFICATE OF CONFORMITY



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

2. **Certificate No:** FM17US0054X
3. **Equipment:** Type 9721/13-11-*4 and Type 9721/13-42-*4
(Type Reference and Name) Ethernet Switches / Converter

4. **Name of Listing Company:** R. STAHL Schaltgeraete GmbH

5. **Address of Listing Company:** Am Bahnhof 30
D-74638 Waldenburg (Wuertt)
Germany

6. The examination and test results are recorded in confidential report number:
3061193 dated 12th June 2017

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

FM Class 3600:2011, FM Class 3611:2016, FM Class 3810:2005, ANSI/ISA 60079-0:2013,
ANSI/ISA 60079-15:2013, ANSI/ISA 60079-28:2015

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:**

Nonincendive for Class I, Division 2, Group A, B, C and D hazardous (classified) locations, Non-sparking for Class I, Zone 2 with Inherently Safe Optical Radiation outputs for Class I, Zone 0, Group IIC hazardous (classified) locations with an ambient temperature rating of -30°C to +70°C or +75°C.

11. The marking of the equipment shall include:

Certificate issued by:



J.E. Marquedant
VP, Manager, Electrical Systems

12 June 2017

Date

To verify the availability of the Approved product, please refer to 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
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SCHEDULE



US Certificate Of Conformity No: FM17US0054X

9721/13-11-e4:

CL I, DIV 2, GP ABCD;
CL I, Zone 2, AEx nA [op is] IIC T4 Gc;
SEE DOC. 9721 6 031 001 1
Ta = -30°C to +75°C;

9721/13-42-e4:

CL I, DIV 2, GP ABCD;
CL I, Zone 2, AEx nA [op is] IIC T4 Gc;
SEE DOC. 9721 6 031 001 1
Ta = -30°C to +70°C;

12. **Description of Equipment:**

General - Type 9721/13-11-*4 “Converter FXopis/TX SC” is a fiber optic media converter for Industrial Ethernet, which converts signals directly between copper and fiber optic cables.

Type 9721/13-42-*4 “Switch unmanaged FXopis/TX SC” is an unmanaged switch which converts Ethernet signals between all electrical copper networks (TX) and all fiber optic Ethernet networks (FX). The unmanaged switch converts signals directly between copper and fiber optic cables.

Construction – The Type 9721/13-11-*4 “Converter FXopis/TX SC” and Type 9721/13-42-*4 “Switch unmanaged FXopis/TX SC” are required to be installed within a suitable enclosure for the ultimate application.

Ratings - The Type 9721/13-11-*4 “Converter FXopis/TX SC” operates at 12-24 Vdc (2.5W) and the Type 9721/13-42-*4 “Switch unmanaged FXopis/TX SC” operates at 12-30 Vdc (6.4W). The Type 9721/13-11-*4 “Converter FXopis/TX SC” is rated for use in an ambient temperature range of -30°C to +75°C. The Type 9721/13-42-*4 “Switch unmanaged FXopis/TX SC” is rated for use in an ambient temperature range of -30°C to +70°C.

Type 9721/13-11-e4, Converter FXopis/TX SC
e = design of Ex op is port (FX); 1 or 5

Type 9721/13-42-e4, Switch unmanaged FXopis/TX SC
e = design of Ex op is port (FX); 1, 5 or 7

13. **Specific Conditions of Use:**

1. Shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application.
2. Shall be installed per drawing 9721 6 031 001 1.
3. When installed in Division 2 location fiber optic outputs are suitable for connection to Division 1 Location.

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SCHEDULE



US Certificate Of Conformity No: FM17US0054X

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
12 th June 2017	Original Issue.

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