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

Certificate No.:	**IECEx TUR 16.0002X**	Page 1 of 4	
Status:	**Current**	Issue No: 1	
Date of Issue:	2021-07-05		

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

Equipment: **Switch unmanaged FXopis/TX SC MM, SM or SMM**

Optional accessory: **9721/13-42-14; 9721/13-42-54 and 9721/13-42-74**

Type of Protection: **e; op is**

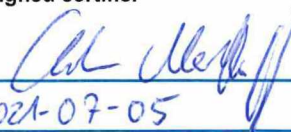Marking: Ex ec [op is T6 Ga] IIC T4 Gc

[Ex op is Da] IIIC

Approved for issue on behalf of the IECEx
Certification Body:

Christian Mehrhoff

Position:

Assigned certifier

Signature:
(for printed version)

Date: 2021-07-05

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:

TUV Rheinland Industrie Service GmbH
Am Grauen Stein
51105 Cologne
Germany

TÜVRheinland®

IECEx Certificate
of Conformity

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
Edition:7.0

Explosive atmospheres - Part 0: Equipment - General requirements

IEC 60079-28:2015
Edition:2

Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation

IEC 60079-7:2017
Edition:5.1

Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

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 Report:

DE/TUR/ExTR16.0002/01

Quality Assessment Report:

DE/BVS/QAR10.0002/16

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

General product information:

The switch unmanaged is designed for linking of electrical Ethernet networks (TX) and fibre optic (FX) based networks. The unmanaged switch has two TX ports and four FX op is ports. Redundant supply can be provided.
Observing the Special Conditions for safe use, the switch unmanaged can be installed in Zone 2 or Zone 22 or outside explosive atmospheres. The fibre optics are used for operation in hazardous areas of Zone 0, 1, 2, 20, 21 and 22 with the type of protection "Ex op is" (IEC 60079-28).

SPECIFIC CONDITIONS OF USE: YES as shown below:
- The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.

- For installations in Zone 2 or Zone 22 the Switch unmanaged FXopis/TX SC ** shall be mounted in a protective housing or cabinet according to IEC 60079-0 which provides an appropriate type of protection.
For installations in Non-Ex area and in Zone 2 a housing of at least IP54 is required.
For installations in Zone 22 a housing of at least IP64 is required.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Standard updates to IEC 60079-0 ed. 7.0 and IEC 60079-7 ed. 5.1

Annex:

DE-IECEx_TUR_16.0002_X_01_Attachment_1.pdf

Device: Switch unmanaged FXopis/TX SC MM, SM or SMM
Type: 9721/13-42-14; 9721/13-42-54 and 9721/13-42-74

Manufacturer: R. STAHL Schaltgeräte GmbH

Address: Am Bahnhof 30
74638 Waldenburg, Germany

Type designation:

Switch unmanaged FXopis/TX SC **	9721 / 1 3 - 4 2 - * 4
Design of Ex op is ports	
100Base FX Multimode, SC	1
100Base FX Singlemode, SC	5
100Base FX Single- and Multimode, SC	7

Electrical data:

Optical Ethernet interface as per. IEC 60079-28, „op is"-protected
max. optical output power < 15 mW

Nominal voltage: 12 ... 30 V DC
Nominal power consumption: < 5.4 W (24 V)

Environmental data:

Ambient temperature range: - 30 °C ... + 70 °C
Relative humidity (no condensation):   5 ... 95 %
Use at height: < 2000 m

Warning symbol:
„ In Zone 2 do not separate PWR or RJ45-Plug when energized! "

For installations in Non-Ex area and in Zone 2 a housing of at least IP54 is required.
For installations in Zone 22 a housing of at least IP64 is required.