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UNITED KINGDOM CONFORMITY ASSESSMENT

UK TYPE EXAMINATION CERTIFICATE

2

Product or Protective System Intended for use in Potentially Explosive Atmospheres

UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

3

Type Examination Certificate No.: **TÜV 21 UKEX 7043 X** Issue: **00**

4

Product: **Switch unmanaged FXopis/TX SC MM, SM or SMM
Type 9721/13-42-14, 9721/13-42-54 and 9721/13-42-74
for details see type code below**

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Manufacturer: **R. STAHL Schaltgeräte GmbH**

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Address: **Am Bahnhof 30
74638 Waldenburg, Germany**

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This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8

TUV Rheinland UK Ltd, Approved Body number 2571, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

The examination and test results are recorded in the confidential report 557 / UKEx 7043.00 / 21.

9

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018

**EN IEC 60079-7:2015 /
A1:2018**

EN 60079-28: 2015

Except in respect of those requirements listed at section 18 of the schedule to this certificate.

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

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This TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

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The marking of this product shall include the following:



II 3 (1) G Ex ec [op is T6 Ga] IIC T4 Gc



II (1) D [Ex op is Da] IIIC

Other Ex markings see operating instructions!

This certificate and its schedules may only be reproduced in its entirety and without change.

TUV Rheinland UK Ltd

Solihull, 2022-03-14


Dipl.-Ing. Klauspeter Graffi

This Type Examination Certificate without signature shall not be valid. Alterations are subject to approval by
TUV Rheinland UK Ltd, 1011 Stratford Road, Shirley, Solihull, B90 4BN, Tel. +44 (0) 121 7969400
A UKAS accredited certification body, No. 8400

 **TÜVRheinland®**
Precisely Right.

- 13 SCHEDULE TO UK TYPE EXAMINATION CERTIFICATE
 14 CERTIFICATE NUMBER TÜV 21 UKEX 7043 X



15 Description of Product

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

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/EN 60079-28).

Type designation

Switch unmanaged FXopis/TX SC **	9721 / 13 - 42 - * 4
Design of Ex op is ports	
100Base FX Multimode, SC	1
100Base FX Singlemode, SC	5
100Base FX Single- and Multimode, SC	7

Technical Data

Electrical data:

Optical Ethernet interface as per. IEC/EN 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

Ethernet and power supply connectors:
 „In Zone 2 do not separate PWR or RJ45-Plug when energized! “

- 16 Test report No. (associated with this certificate issue): 557 / UKEx 7043.00 / 21

13 SCHEDULE TO UK TYPE EXAMINATION CERTIFICATE

14 CERTIFICATE NUMBER TÜV 21 UKEX 7043 X

17 Specific Conditions of Use

1. The equipment shall only be used in an area of at least pollution degree 2, as defined in EN 60664-1.
2. 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/EN 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.

18 Essential Health and Safety Requirements (Regulations Schedule 1)

In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated in the relevant reports.

19 Drawings and Documents

Reg. no.	Document title:	Document no.:	Rev.:	Date:
	Compliance drawings pack	Multiple drawings	0	02/22
	*Marking example	9721 0 000 006 0	02	04.02.2022
	*Extract of instructions	9721 0 000 007 0	02	04.02.2022
	*UKCA DoC (Draft)	9721 6 002 004 0	-	11.06.2021