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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 7042 X** Issue: **00**

4 Product: **Converter FXopis/TX SC**
Type 9721/13-11-14 and 9721/13-11-54
for details see type code below

5 Manufacturer: **R. STAHL Schaltgeräte GmbH**

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

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

8 TÜV 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 7042.00 / 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.

10 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.

11 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.

12 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.

TÜV 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
TÜV 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.

15 Description of Product

Converter FXopis/TX SC
Type 9721/13-11-14 and 9721/13-11-54

Converter FXopis/TX SC Type 9721/13-11-14 and 9721/13-11-54.

A fiber optic media converter for Industrial Ethernet converts signals directly between copper and fiber optic cables. Thus, fiber optic media converters offer the possibility to enlarge the range of an already existing network.

The Converter FXopis/TX SC converts signals between standard copper cable based Ethernet signals and Ex op is fiber optic signals.

Therefore the Converter FXopis/TX SC maybe installed in Zone 2 or Zone 22 or outside explosive atmospheres. The Ex op is interface is certified as per [Ex op is T6 Ga] or [Ex op is Da] and can be connected to devices in Zone 0 or Zone 20.

- For operation in Zone 2 hazard areas a housing of at least IP 54 is required.
- For operation in Zone 22 hazard areas a housing of at least IP 64 is required.

The Converter FXopis/TX SC is equipped with a singlemode (SM) or multimode (MM) transceiver.

Type code:

Converter FXopis/TX SC	9721 /	*	*	-	*	*	-	*	*
		a	b		c	d		e	f
Hardware-Version:									
1	1								
2	2								
Hazardous area:									
Zone 1	2								
Zone 2	3								
Number of ports op is									
1 Port	1								
2 Ports	2								
Number of ports non-Ex									
1 Port	1								
2 Ports	2								
Design of Ex op is ports									
100Base FX Multimode, SC	1								
100Base FX Multimode, LC	2								
100Base FX Singlemode, SC	5								
100Base FX Singlemode, LC	6								
Design of non-Ex ports									
100Base FX Multimode, SC	1								
100Base FX Multimode, LC	2								
100Base TX Copper 4-wire Cat5, M12	3								
100Base TX Copper 4-wire Cat5, RJ45	4								
100Base FX Singlemode, SC	5								
100Base FX Singlemode, LC	6								

- 13 SCHEDULE TO UK TYPE EXAMINATION CERTIFICATE
 14 CERTIFICATE NUMBER TÜV 21 UKEX 7042 X

Technical Data

Electrical data:

Nominal voltage: 12 ... 24 V DC
 Nominal power consumption: < 2,5 W

Environmental data:

Operating temperature range : $-30^{\circ}\text{C} \leq T_a \leq +75^{\circ}\text{C}$
 IP Code : enclosure: IP 30;
 connection terminals: IP 20

must be installed inside housing or cabinet which complies with the requirements of IEC 60079-0 with IP 54 at minimum and IP 64 for use in Zone 22

Safety data:

Optical Ethernet interface and status LED
 As per. IEC/EN 60079-28, „op is“-protected
 max. optical output power: < 15 mW

- 16 **Test report No. (associated with this certificate issue): 557 / UKEx 7042.00 / 21**

17 **Specific Conditions of Use**

1. The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC/EN 60664-1.
2. For installations in Zone 2 or Zone 22 the Converter 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
	*Extract of Operating Instructions	9721 0 000 012 0	02	04.02.2022
	*Drawing Nameplate	9721 0 000 002 0	02	04.02.2022
	*UKCA DoC (Draft)	9721 6 002 003 0		11.06.2021