



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx BAS 09.0099X

Issue No: 8

Certificate history:

Status: **Current**

Issue No. 8 (2019-07-30)

Issue No. 7 (2015-06-25)

Date of Issue: **2019-07-30**

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Issue No. 6 (2014-06-12)

Issue No. 5 (2014-03-24)

Applicant: **T.E.L. Engineering Limited (Trading as Trolex Engineering)**
Unit 2 Levens Road,
Newby Road Industrial Estate,
Hazel Grove,
Stockport, Cheshire,
SK7 5DL
United Kingdom

Issue No. 4 (2013-10-22)

Issue No. 3 (2012-10-05)

Issue No. 2 (2011-11-28)

Issue No. 1 (2011-07-12)

Issue No. 0 (2009-10-13)

Equipment: **Type TX4726, TX4727 and TX4728 Slip Ring Units**

Optional accessory:

Type of Protection: **Flameproof, Increased Safety, Dust Protected and Optical Radiation**

Marking:

Ex d e IIB T* Gb Tamb -*C to +***C (for T*, ***C see table within Equipment Section, Page 3)**

Ex tb III C T**C Db (for T****C see table within Equipment Section, Page 3)**

or TX472#FO: (#=6, 7, or 8)

Ex d e op is IIB T4 Gb Tamb -40°C to +50°C

Ex tb III C T135°C Db


Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair

Position:

Technical Manager

Signature:
(for printed version)


30-7-19

Date:

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

SGS Baseefa Limited
Rockhead Business Park
Staden Lane
Buxton, Derbyshire, SK17 9RZ
United Kingdom



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T.E.L. ENGINEERING LIMITED



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Manufacturer: **T.E.L Engineering Limited also trading as Trolex Engineering**
Unit 2 Levens Road,
Newby Road Industrial Estate,
Hazel Grove,
Stockport, Cheshire,
SK7 5DL
United Kingdom

Additional Manufacturing location(s):

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 apparatus 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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-28 : 2006-08 Edition:1	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
IEC 60079-31 : 2008 Edition:1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
IEC 60079-7 : 2006-07 Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical 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:

GB/BAS/ExTR09.0140/00	GB/BAS/ExTR11.0160/00	GB/BAS/ExTR11.0304/00
GB/BAS/ExTR12.0203/00	GB/BAS/ExTR13.0151/00	GB/BAS/ExTR14.0078/00
GB/BAS/ExTR14.0175/00	GB/BAS/ExTR14.0359/00	

Quality Assessment Report:

[GB/BAS/QAR08.0003/07](#)

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Type TX4726, TX4726 and TX4728 Slip Ring Unit consists of a fabricated mild, stainless or carbon steel flameproof enclosure incorporating slip rings and associated brush gear. Increased safety terminals for external connections are housed within two increased safety junction boxes. The flameproof enclosure has a flange or foot at one end and a rotating end cover with a rolling element bearing at the other end. One increased safety junction box is attached to the fixed flameproof enclosure; the other is attached to the revolving end cover. The slip rings are rated between 10A and 800A and may be used for power, signal and intrinsically safe circuits.

The Type TX4726, TX4727 and TX4728 units differ only in current ratings, the length of the flameproof enclosure and the increased safety enclosure, to accommodate differing quantities of slip rings and terminals respectively.

Marking

Equipment Marking Variations			
T* / T***	** - T _{amb}	Unit Type	Current
T5/T100°C	-40°C to +50°C	TX4726	3000A
T4/T135°C	-40°C to +50°C	TX4727	3000A
T4/T135°C	-40°C to +50°C	TX4726FO (Fibre Optic variant, optional increased bore diameter)	3000A
T4/T135°C	-40°C to +50°C	TX4727FO (Fibre Optic variant)	3000A
T4/T135°C	-40°C to +50°C	TX4728FO (Fibre Optic variant)	3000A
T4/T135°C	-20°C to +60°C	TX4727HT (High Temperature, reduced current variant)	350A
T4/T135°C	-40°C to +50°C	TX4726HC (High Current, reduced T class variant)	3330A

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The optical power through the Types TX4726FO, TX4727FO and TX4728FO slip ring units is to be limited to a radiated power of less than 35mW and a peak power density of less than 5mW/mm² as defined by IEC60079-28.
2. The TX4726 variant only makes use of flamepaths with dimensions different to those listed in Table 1 of IEC 60079-1; if further information is required the original manufacturer must be contacted

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 8.1

This document permits existing information (for example on Schedule Drawings) to be replaced by the revised certificate holders address. No other changes may be made to the certified design

File Reference: 19/0450

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