



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 16.0025X** Page 1 of 4 [Certificate history:](#)
Issue 0 (2016-07-06)

Status: **Current** Issue No: 1

Date of Issue: 2023-08-02

Applicant: **SAMCON Prozessleittechnik GmbH**
Schillerstraße 17
D-35102 Lohra-Altenvers
Germany

Equipment: **ExConnection Rail Series T04.x..**

Optional accessory:

Type of Protection: **d, tb, ia, ib, op is, op pr, mb and e**

Marking: Basic marking:
Ex db IIC T6 Gb
Ex tb IIIC T80°C Db IP66
Optional and additional Type of Protection markings for all Types see attachment Issue 0.

Approved for issue on behalf of the IECEx
Certification Body:

Christian Mehrhoff

Position:

Assigned certifier

Signature:
(for printed version)

Date:
(for printed version)

2023-08-02

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





IECEX Certificate of Conformity

Certificate No.: **IECEX TUR 16.0025X**

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Date of issue: 2023-08-02

Issue No: 1

Manufacturer: **SAMCON Prozessleittechnik GmbH**
Schillerstraße 17
D-35102 Lohra-Altenvers
Germany

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](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-11:2023](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:7.0

[IEC 60079-18:2017](#) Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

[IEC 60079-28:2015](#) Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
Edition:2

[IEC 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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/ExTR16.0025/01](#)

Quality Assessment Report:

[DE/BVS/QAR14.0006/09](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX TUR 16.0025X**

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Date of issue: 2023-08-02

Issue No: 1

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

ExConnection Rail Series T04.x..

The ExConnection Rail (Type 04) is an explosion proof connection and transmission unit for audio, video and process signals. The ExConnection Rail serves the purpose of transferring digital and analog camera signals as well as audio and process signals into signals of different transmission technologies.

As optional certified target transmission media, Ethernet TX (copper conductor), Ethernet FX (optical fiber) and HF, are possible equipment.

See attachment for further details.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. At installation of the devices, the requirements of the IEC 60079-14 standard have to be observed.
2. The specific conditions of the used components have to be observed.
3. Only cable entries suitable for the applicable housing protection level must be used.
4. The device documentation with the Doc.-Id's: -PT04xxx (serial number) has to be transmitted to the customer. All built-in devices/components must be listed in this document.



IECEX Certificate of Conformity

Certificate No.: **IECEX TUR 16.0025X**

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Date of issue: 2023-08-02

Issue No: 1

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Update according to the latest standards.



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 TUR 16.0025X** issue No.:0 Certificate history:

Status: **Current**

Date of Issue: **2016-07-06** Page 1 of 3

Applicant: **SAMCON Prozessleittechnik GmbH**
Schillerstraße 17,
D-35102 Lohra-Altenvers
Germany

Equipment: **ExConnection Rail Series T04**
Optional accessory:

Type of Protection: **d, tb, ia, ib, op is, op pr, mb and e**

Marking: Basic marking:
Ex d IIC T6 Gb
Ex tb IIIC T85°C Db IP66
Optional and additional Type of Protection markings for all Types see attachment.

Approved for issue on behalf of the IECEx
Certification Body:

Dipl.-Ing. Klauspeter Graffi

Position:

Head of Certification Body

Signature:
(for printed version)


2016-07-06

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:

TUV Rheinland Industrie Service GmbH
Am Grauen Stein
51105 Cologne
Germany





IECEx Certificate of Conformity

Certificate No.: IECEx TUR 16.0025X

Date of Issue: 2016-07-06

Issue No.: 0

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Manufacturer: **SAMCON Prozessleittechnik GmbH**
Schillerstraße 17,
D-35102 Lohra-Altenvers
Germany

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 electrical 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 : 2014-06 Edition: 7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11 : 2011 Edition: 6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-18 : 2009 Edition: 3	Explosive atmospheres Part 18: Equipment protection by encapsulation "m"
IEC 60079-28 : 2015 Edition: 2	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:
[DE/TUR/ExTR16.0025/00](#)

Quality Assessment Report:
[DE/BVS/QAR14.0006/02](#)



IECEX Certificate of Conformity

Certificate No.: IECEX TUR 16.0025X

Date of Issue: 2016-07-06

Issue No.: 0

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

ExConnection Rail Series T04.x..

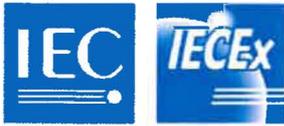
The ExConnection Rail (Type 04) is an explosion proof connection and transmission unit for audio, video and process signals. The ExConnection Rail serves the purpose of transferring digital and analog camera signals as well as audio and process signals into signals of different transmission technologies.

As optional certified target transmission media, Ethernet TX (copper conductor), Ethernet FX (optical fiber) and HF, are possible equipment.

See attachment for further details.

CONDITIONS OF CERTIFICATION: YES as shown below:

1. At installation of the devices, the requirements of the IEC 60079-14 standard have to be observed.
2. The specific conditions of the used components have to be observed.
3. Only cable entries suitable for the applicable housing protection level must be used.
4. The device documentation with the Doc.-Id's: -PT04xxx (serial number) has to be transmitted to the customer. All built-in devices/components must be listed in this document.



Attachment to Certificate IECEx TUR 16.0025X

Device: ExConnection Rail Series T04.x
Type: T04.x (details refer to Technical Data section)

Manufacturer: SAMCON Prozeßleittechnik GmbH

Address: Schillerstraße 17
35102 Lohra- Altenvers, Deutschland

General product information:

The ExConnection Rail (Type 04) is a connection and transmission unit for audio, video, and process signals intended for applications in the hazardous area requiring devices of the EPL Gb, Gc as well as Db, Dc. The usage of available external interfaces is limited to those categories.

The ExConnection Rail converts digital and analog camera signals as well as audio and process signals into signals of other transmission technologies. As target transmission media it is possible to use Ethernet TX (copper), Ethernet FX (optic fiber), and HF.

The design of the ExConnection Rail predominantly consists of a flameproof component-certified housing with an optionally installed terminal box of increased safety protection (IECEX PTB 07.0027U).

In this housing, different components can be installed, corresponding to the individual application requirements. Only devices and components disposing of electrical interfaces reflecting the ignition protection level [ia/ib] or [op is] are used.

The applicable certificates of conformity (CoC) for those components have to be available.

Technical data

Supply Voltage:

Type: T04.x...: up to 11kV, depending on the used terminals, cable glands, etc...

T_{AMB}.. -60°C ≤ T_{amb} ≤ +60°C *can be decreased if required (look at device document).

Maximum Input Power:

Model	T6/T80°		T5/T95°	
	T _{AMB}		T _{AMB}	
	+40°C	+60°C	+40°C	+60°C
T04.1	27 W	13 W	38 W	22 W
T04.1 (coated)	35 W	16 W	49 W	28 W



Attachment to Certificate
IECEX TUR 16.0025X
Revision 0

T04.2	40 W	18 W	58 W	35 W
T04.2 (coated)	52 W	23 W	75 W	45 W
T04.3	58 W	23 W	85 W	52 W
T04.3 (coated)	75 W	26 W	110 W	67 W
T04.4	85 W	38 W	130 W	72 W
T04.4 (coated)	110 W	49 W	169 W	93 W
T04.5	117 W	49 W	190 W	96 W
T04.5 (coated)	152 W	63 W	247 W	124 W
T04.6	138 W	58 W	205 W	115 W
T04.6 (coated)	179 W	75 W	266 W	149 W

Marking (options)

Gas:

Ex d IIC T6 Gb

Dust:

Ex tb IIIC T85°C Db IP 66

Optional and additional Type of Protection markings for all Types depending on the components used:

[ia Ga/Da]	= for models with [ia Ga/Da] intrinsically safe circuits
[ib Gb/Db]	= for models with [ib Gb/Db] intrinsically safe circuits
[op is]	= for models with [op is] FOC connectors or illuminators
[op pr]	= for models with [op pr] FOC Connectors
mb	= for models with HF Barrier
e	= for models with Ex-e terminal boxes
IIB	= downgrade possible

The temperature class T6 resp. T85°C and explosion group IIC can be decreased according device document (see special conditions point 4) and table above.

“Specific Conditions of Use” for Ex Equipment:

1. At installation of the devices, the requirements of the IEC 60079-14 standard have to be observed.
2. The specific conditions of the used components have to be observed.
3. Only cable entries suitable for the applicable housing protection level must be used.
4. The device documentation with the Doc.-Id's: -PT04xxx (serial number) has to be transmitted to the customer. All built-in devices/components must be listed in this document.