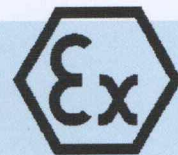


(1) EU TYPE-EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 14/34/EU**
- (3) EU Type-Examination Certificate Number

TÜV 10 ATEX 7969 X

Issue: 02

- (4) Equipment: **ExConnection Rail Series T04.x..**
- (5) Manufacturer: **SAMCON Prozeßleittechnik GmbH**
- (6) Address: **Schillerstraße 17
35102 Lohra- Altenvers Deutschland**



- (7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Zertifizierungsstelle for ex-protected products of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 14/34/EU of 26th February 2014, certifies this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report 557 / Ex 969.02 / 10.

- (9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN 60079-0:2018	EN 60079-1:2014	EN 60079-7:2015	EN 60079-11:2012
EN 60079-18:2015	EN 60079-28:2015	EN 60079-31:2014	

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EU Type-Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.

- (12)  II 2 G see technical data
-  II 2 D see technical data

TÜV Rheinland ExNB for explosion protected equipment

Cologne, 2023-08-02

Dipl.-Ing. Christian Mehrhoff



This EU Type-Examination Certificate without signature and stamp shall not be valid.
This EU Type-examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Köln
Tel. +49 (0) 221 806-0 Fax. +49 (0) 221 806 114



(13)

Annex

(14)

EU Type Examination Certificate

TÜV 10 ATEX 7969 X

Issue: 02

(15) Description of equipment

15.1 Equipment and type:

ExConnection Rail Series T04.x.. (Type details see Technical Data)

15.2 Description / Details of Change

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 category 2G, 3G as well as 2D, 3D. 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 (PTB 06 ATEX 1023U). 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 EC/EU type examination certificates for those components have to be available.

Issue01

Change the certificate language into English.
Added more enclosure combination (T04.1, T04.2, T04.3, and T04.5)
Increase the ambient temperature range.
Update according to the latest standards.

This EU Type Examination Certificate without signature and official stamp shall not be valid.
This certificate may be circulated without alteration. Extracts or alterations are subject to approval by:
Zertifizierungsstelle of TÜV Rheinland Industrie Service GmbH

Issue02

Update according to the latest standards.

Technical Data

Unchanged

Marking (options)

Gas:



II 2G Ex db IIC T6 Gb

Dust:



II 2D Ex tb IIIC T80°C Db

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 and explosion group IIC can be decreased according device document (see special conditions point 4).

(16) Test-Report No. 557 / Ex 969.02 / 10

(17) Special Conditions for safe use

The original certificate has to be observed.

- At installation of the devices, the requirements of the EN 60079-14 standard have to be observed.
- The specific conditions of the used components have to be observed.
- Only cable entries suitable for the applicable housing protection level must be used.
- NEW in 1st ADDENDUM:
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.

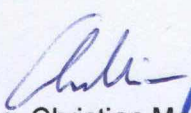
This EU Type Examination Certificate without signature and official stamp shall not be valid.
This certificate may be circulated without alteration. Extracts or alterations are subject to approval by:
Zertifizierungsstelle of TÜV Rheinland Industrie Service GmbH

(18) Basic Safety and Health Requirements

Covered by afore mentioned standard.

TÜV Rheinland ExNB for explosion protected equipment

Cologne, 2023-08-02


Dipl.-Ing. Christian Mehrhoff



This EU Type Examination Certificate without signature and official stamp shall not be valid.
This certificate may be circulated without alteration. Extracts or alterations are subject to approval by:
Zertifizierungsstelle of TÜV Rheinland Industrie Service GmbH

(1) EU TYPE-EXAMINATION CERTIFICATE




- (2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 14/34/EU**
- (3) EU Type-Examination Certificate Number

TÜV 10 ATEX 7969 X

Issue: 01

- (4) Equipment: **ExConnection Rail Series T04.x**
- (5) Manufacturer: **SAMCON Prozeßleittechnik GmbH**
- (6) Address: **Schillerstraße 17
35102 Lohra- Altenvers Deutschland**
- (7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Zertifizierungsstelle for ex-protected products of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 14/34/EU of 26th February 2014, certifies this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive.
- The examination and test results are recorded in the confidential report 557 / Ex 969.01 / 10.
- (9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:
- EN 60079-0:2012+A11:2013 EN 60079-1:2014 EN 60079-7:2007 EN 60079-11:2012
EN 60079-18:2009 EN 60079-28:2007 EN 60079-28:2007 (ISH 1:2014)
EN 60079-31:2009**
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EU Type-Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.

(12)  II 2 G see technical data

 II 2 D see technical data

TÜV Rheinland ExNB for explosion protected equipment

Cologne, 06.07.2016

Dipl.-Ing. Klauspeter Graffi

This EU Type-Examination Certificate without signature and stamp shall not be valid.
This EU Type-examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Köln
Tel. +49 (0) 221 806-0 Fax. + 49 (0) 221 806 114

(13) Annex

(14) **EU Type Examination Certificate**
TÜV 10 ATEX 7969 X Issue: 01

(15) Description of equipment

15.1 Equipment and type:

ExConnection Rail Series T04.x.. (Type details see Technical Data)

15.2 Description / Details of Change

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 category 2G, 3G as well as 2D, 3D. 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 (PTB 06 ATEX 1023U). 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 EC/EU type examination certificates for those components have to be available.

The content of 1st Supplement is:

Change the certificate language into English.
Added more enclosure combination (T04.1, T04.2, T04.3, and T04.5)
Increase the ambient temperature range.
Update according to the latest standards.

This EU Type Examination Certificate without signature and official stamp shall not be valid.
This certificate may be circulated without alteration. Extracts or alterations are subject to approval by:
Zertifizierungsstelle of TÜV Rheinland Industrie Service GmbH

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
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:



II 2G Ex d IIC T6 Gb

Dust:



II 2D Ex tb IIIC T85°C Db IP 66

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

This EU Type Examination Certificate without signature and official stamp shall not be valid.
 This certificate may be circulated without alteration. Extracts or alterations are subject to approval by:
 Zertifizierungsstelle of TÜV Rheinland Industrie Service GmbH

[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.

(16) Test-Report No. 557 / Ex 969.01 / 10

(17) Special Conditions for safe use

The original certificate has to be observed.

1. At installation of the devices, the requirements of the EN 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. NEW in 1st ADDENDUM:
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.

(18) Basic Safety and Health Requirements

Covered by afore mentioned standard.

TÜV Rheinland ExNB for explosion protected equipment

Cologne, 2016-07-06



Dipl.-Ing. Klauspeter Graffi

This EU Type Examination Certificate without signature and official stamp shall not be valid.
This certificate may be circulated without alteration. Extracts or alterations are subject to approval by:
Zertifizierungsstelle of TÜV Rheinland Industrie Service GmbH

(1)

EG-Baumusterprüfbescheinigung

(2) Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen - **Richtlinie 94/9/EG**



(3) EG-Baumusterprüfbescheinigungsnummer

TÜV 10 ATEX 7969 X

(4) Gerät: **ExConnection Rail** Typ **T04**

(5) Hersteller: **SAMCON Prozeßleittechnik GmbH**

(6) Anschrift: **Schillerstraße 5a; 35102 Lohra-Altenvers**

(7) Die Bauart dieses Gerätes sowie die verschiedenen zulässigen Ausführungen sind in der Anlage zu dieser Baumusterprüfbescheinigung festgelegt.

(8) Die TÜV Rheinland - Zertifizierungsstelle für Ex-Schutz-Produkte der TÜV Rheinland Industrie Service GmbH, bescheinigt als benannte Stelle Nr. 0035 nach Artikel 9 der Richtlinie des Rates der Europäischen Gemeinschaften vom 23. März 1994 (94/9/EG) die Erfüllung der grundlegenden Sicherheits- und Gesundheitsanforderungen für die Konzeption und den Bau von Geräten und Schutzsystemen zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen gemäß Anhang II der Richtlinie.

Die Ergebnisse der Prüfung sind in dem vertraulichen Prüfbericht Nr. 557/Ex969.00/10 festgelegt.

(9) Die grundlegenden Sicherheits- und Gesundheitsanforderungen werden erfüllt durch Übereinstimmung mit

EN 60079-0: 2006	EN 60079-1: 2007	EN 60079-7: 2007	EN 60079-18: 2004
EN 60079-28: 2007	EN 61241-0: 2006	EN 61241-1: 2004	

mit Ausnahme der Anforderungen, die in Punkt 18 der Anlage gelistet sind.

(10) Falls das Zeichen „X“ hinter der Bescheinigungsnummer steht, wird auf besondere Bedingungen für die sichere Anwendung des Gerätes in der Anlage zu dieser Bescheinigung hingewiesen.

(11) Diese EG-Baumusterprüfbescheinigung bezieht sich nur auf Konzeption und Bau des festgelegten Gerätes gemäß Richtlinie 94/9/EG. Weitere Anforderungen dieser Richtlinie gelten für die Herstellung und das Inverkehrbringen dieses Gerätes. Diese Anforderungen werden durch diese Bescheinigung nicht abgedeckt.

(12) Die Kennzeichnung des Gerätes muß die folgenden Angaben enthalten:

II 2 G	Ex d e mb [ia/ib] [op is] IIC T6	Varianten siehe Beschreibung
II 2 D	Ex tD A21 [ia/ib] [op is] IP 66 T80°C	Varianten siehe Beschreibung

TÜV Rheinland - Zertifizierungsstelle für Explosionsschutz

Köln, 10. Dezember 2011

Dipl.-Ing. Heinz Farke



Diese EG-Baumusterprüfbescheinigung hat ohne Unterschrift und Stempel keine Gültigkeit
Diese EG-Baumusterprüfbescheinigung darf nur unverändert verbreitet werden. Auszüge und Änderungen bedürfen der Genehmigung der TÜV Rheinland -Zertifizierungsstelle für Ex-Schutz-Produkte
TÜV Rheinland Industrie Service GmbH, Am Grauen Stein, 51105 Köln
Tel. +49 (0) 221 806-0 Fax. + 49 (0) 221 806 114

(13) Anlage zur

(14) **EG-Baumusterprüfbescheinigung**

TÜV 10 ATEX 7969 X

(15) Beschreibung des Gerätes

15.1 Gegenstand

Das ExConnection Rail (Typ 04) ist eine Anschluss- und Übertragungseinheit für Audio-, Video- und Prozesssignale zur Anwendung in explosionsgefährdeten Bereichen, die Geräte der Kategorie 2G, 3G bzw. 2D, 3D erfordern, vorgesehen. Die Verwendung der verfügbaren externen Schnittstellen ist auf diese Kategorien beschränkt.

Das ExConnection Rail wandelt digitale und analoge Kamerasignale sowie Audio und Prozesssignale in Signale anderer Übertragungstechniken um. Als Zielübertragungsmedium können optional Ethernet TX (Kupferleiter), Ethernet FX (Lichtwellenleiter) und WLAN verwendet werden.

Die Konstruktion des ExConnection Rail besteht im wesentlichen aus einem druckfesten teilbescheinigten Gehäuse mit optional angebautem Klemmenkasten erhöhter Sicherheit (PTB 06 ATEX 1023U). In diesem Gehäuse werden je nach Anwendung unterschiedliche Komponenten eingebaut. Es werden nur Geräte und Komponenten, die elektrische Schnittstellen in den Zündschutzarten [ia/ib] oder [op is] zur Verfügung stellen, eingesetzt, wenn eine entsprechende EG-Baumusterprüfbescheinigung für diese Komponenten vorliegt.

ExConnection Rail, Typ T04 mit einer maximalen Kennzeichnung:

 II 2 G Ex d e mb [ia/ib] [op is] IIC T6

 II 2 D Ex tD A21 [ia/ib] [op is] IP 66 T80°C

Die angeführte Kennzeichnung repräsentiert die Maximalkonfiguration. Die nicht verwendeten Zündschutzartkennzeichnungen entfallen.

Bei Geräten ohne Ex-e Anschlussraum reduziert sich die Kennzeichnung um das "e"
Bei Geräten ohne eigensichere Schnittstelle reduziert sich die Kennzeichnung um das "[ia/ib]"

Bei Geräten ohne LWL Anschluss reduziert sich die Kennzeichnung um das "[op is]"
Bei Geräten ohne HF Schnittstelle reduziert sich die Kennzeichnung um das "mb".

15.2 Technische Daten

Typ	U* [V]	Pvmax* [W]	Tamb [°C]
T04 (Gr.4)	85 - 400 V AC 12 - 60VDC	62	-20 ≤ Ta ≤ 40
T04 (Gr.6)	85 - 400 V AC 12 - 60VDC	147	-20 ≤ Ta ≤ 40

* Die angegebenen Werte geben die maximalen Werte an. Je nach verbauten Komponenten sind diese Werte geringer. Die tatsächlichen Werte werden für jedes einzelne Gerät bestimmt und in der gerätespezifischen Dokumentation angegeben.

(16) Prüfbericht-Nr. 557 / Ex 969.00/10

(17) Besondere Bedingungen

Bei der Installation der Geräte sind die Anforderungen der EN 60079-14 zu beachten.

Die besonderen Bedingungen der verwendeten Komponenten sind zu beachten.

Es dürfen nur für die jeweilige Gehäuseschutzart geeignete Leitungseinführungen verwendet werden.

(18) Grundlegende Sicherheits- und Gesundheitsanforderungen

Erfüllt

TÜV Rheinland Zertifizierungsstelle

Köln, 10. Dezember 2011


 Dipl.-Ing. Heinz Farke



Diese EG-Baumusterprüfbescheinigung darf nur unverändert weiterverbreitet werden.
 Auszüge oder Änderungen bedürfen der Zustimmung der TÜV-Zertifizierungsstelle der TÜV Rheinland Industrie Service GmbH,