

**2<sup>nd</sup> Supplement**  
**to**  
**Type Examination Certificate**  
**TÜV 05 ATEX 7201 X**



**Device:** X67 I/O System

**Manufacturer:** Bernecker + Rainer Industrie-Elektronik Ges.m.b.H.  
**Address:** B&R Straße 1  
5142 Eggelsberg  
Austria

**Description of supplement and modifications:**

Scope of this assessment is the compliance of the X67 I/O Systems with the standards EN 60079-0:2012 and EN 60079-15:2010.


The X67 modules of the system consist of a plastic enclosure and a fully encapsulated electronic installed within the enclosure. The external electrical connection is done via connectors.

**(15) The following modifications are valid for this 2nd Supplement**

Standard basis:

**EN 60079-0:2012 + A11:2013**  
**EN 60079-15:2010**

Code for type of protection

 **II 3G Ex nA IIA T5 Gc**

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TUV Rheinland Notified Body of TUV Rheinland Industrie Service GmbH, Am Grauen Stein 51105 Köln  
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## 15.1 Equipment and Type

### X67 I/O-System

The X67 I/O System consists of several X67 modules of type X67\*\*\*\*\*. The type designation is as follows:

Asterisk	Description	Values
1, 2	Type of signal	AI = Analogue input module AM = Analogue mix modules AO = Analogue Output modules AT = Temperature modules BC = Bus Controller modules DC = Counter modules DI, SC, SI = Digital Input modules DM = Digital mix modules DO = Digital Output modules DS = Digital output modules/ Link Master DV = Digital output modules/ Valve control MM = Digital output modules/ motor bridge SM = Digital output modules / Stepper IF = Communication modules UM = Universal mix modules PS = Power supply modules
3-7	Type of electronic	Combination of numerical and letters which do not influence the type of protection of the X67 I/O system

## 15.2 Description

The X67 I/O System is used to control several signals and maintains the most common field bus systems. It consists of bus controller-, I/O-, function-, and system supply modules, which can be connected via M8 or M12 connectors.

## 15.3 Technical Data

Rated voltage:	24 V DC
Ingress protection:	IP 67
Ambient temperature range:	0 bis +60 °C
Maximum quantity of connected modules:	250
Maximum distance between modules:	100 m

(16) **Test Report No.** 557 / Ex 201.02 / 05

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The applicability and assembly of mechanical and electrical parts and components were assessed and approved by TÜV Rheinland Industrie Service with respect to the requirements of explosion protection.

(17) **Special conditions for safe use**

- 17.1 The ambient temperature range  $T_a$  of the X67 I/O System is from 0 up to +60 °C.
- 17.2 Not used connections at the X67-Modules (socket or plug) have to be sealed by a blind plug or connectors.
- 17.2 The connectors of the X67-Modules have to be securely installed against mechanical impacts.

(18) **Basic Safety and Health Requirements**

Covered by mentioned standards in the original certificate.

TÜV Rheinland-ExNB for explosion protected equipment

Cologne, 2015-06-25

Dipl.-Ing. Klauspeter Graffi



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