

# CERTIFICATE

## (1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **KEMA 10ATEX0062 X** Issue Number: **4**

(4) Product: **Digital input module SM321 (DI 4 x NAMUR), Type 6AG1 321-7RD00-4AB0**

(5) Manufacturer: **Siemens AG**

(6) Address: **Würzburger Strasse 121, 90766 Fürth, Germany**

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

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 Annex II to the Directive.

The examination and test results are recorded in confidential test report number 213337300, issue 4.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

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

**EN 60079-11 : 2012**

**EN 60079-15 : 2010**

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:



**II 3 G (2) GD Ex nA [ib Gb] [ib IIIC Db] IIC T4 Gc**

Date of certification: 23 August 2016

DEKRA Certification B.V.

R. Schuller  
Certification Manager

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(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 10ATEX0062 X**

Issue No. 4

(15) **Description**

The SIPLUS digital input module SM 321 (DI 4 x NAMUR), Type 6AG1321-7RD00-4AB0 is used for connecting certified NAMUR transmitters in potentially explosive atmospheres.

Ambient temperature range -20 °C to +60 °C.

**Electrical data**

Supply and bus circuits (terminals 1 and 20 of the 20-pins front connector and the connection of the SIMATIC -bus at the back):

20,4 ... 28,8 Vdc, approx. 40 mA (terminals 1 and 20 of the 20-pins front connector);

5,1 ... 5,3 Vdc, approx. 60 mA;

$U_m = 60 \text{ Vdc}$  or  $30 \text{ Vac}$ .

Input circuits (terminals 3 and 4 or 5; 7 and 8 or 9; 12 and 13 or 14; 16 and 17 or 18 of the 20 pins front connector):

in type of protection intrinsic safety Ex ib IIC or Ex ib IIIC, with the following maximum values per circuit:

$U_o = 10 \text{ V}$ ;  $I_o = 14,1 \text{ mA}$ ;  $P_o = 33,7 \text{ mW}$ ;  $C_o = 3 \text{ }\mu\text{F}$ ;  $L_o = 100 \text{ mH}$ .

The intrinsically safe input circuits are infallibly galvanically separated from each other and from the supply and bus circuits.

**Installation instructions**

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. 213337300, issue 4.

(17) **Specific conditions of use**

1. The digital input module SM 321, DI 4 x NAMUR, Type 6AG1321-7RD00-4AB0 may be used in the SIPLUS automation system of equipment category 3. The system shall be installed in a suitable enclosure providing a degree of protection of at least IP54 according to EN 60529 and complying with the requirements of EN 60079-15, taking into account the environmental conditions under which the equipment will be used.

2. During installation the connection box shall be used or by using a separation wall a minimum distance of 50 mm has to be guaranteed between the intrinsically safe and non-intrinsically safe circuits, or the connection parts shall be additionally isolated.

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

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. 213337300, issue 4.



(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 10ATEX0062 X**

Issue No. **4**

(20) Certificate history

|                     |                                                                               |
|---------------------|-------------------------------------------------------------------------------|
| Issue 1 - 213337300 | Initial certificate                                                           |
| Issue 2 - 215617400 | Assessment to EN 60079-0 : 2009                                               |
| Issue 3 - 217109500 | Assessment to EN 60079-0 : 2012, EN 60079-11 : 2012 and<br>EN 60079-15 : 2010 |
| Issue 4 - 219655900 | Assessment to EN 60079-0 : 2012 + A11 : 2013                                  |