

Translation

(1) **EU-Type Examination Certificate**



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

- (3) **Certificate Number** TÜV 17 ATEX 195735 X **issue:** 00
(4) for the product: Isolating amplifier without auxiliary energy type IMC-AI-11Ex-i/L
(5) of the manufacturer: Hans Turck GmbH & Co. KG
(6) Address: Witzlebenstraße 7
45472 Mülheim
Germany

Order number: 8000469401
Date of issue: 2017-04-26

- (7) The design of this product and any acceptable variation thereto are specified in the schedule to this EU-Type Examination Certificate and the documents therein referred to.
(8) The TÜV NORD CERT GmbH, Notified Body No. 0044, in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and the Council of 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 the confidential ATEX Assessment Report No. 17 203 195735.

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

EN 60079-0:2012 + A11:2013 EN 60079-7:2015 EN 60079-11:2012
EN 60079-31:2014

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 for 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 equipment. These are not covered by this certificate.
(12) The marking of the product shall include the following:

II (1) G [Ex ia Ga] IIC
II (1) D [Ex ia Da] IIIC
 II 3 (1) G Ex ec [ia Ga] IIC T4 Gc
II 3 (1) D Ex tc [ia Da] IIIB T80 °C Dc

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 Essen, notified by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The head of the notified body


Meyer

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(13) **SCHEDULE**

(14) **EU-Type Examination Certificate No. TÜV 17 ATEX 195735 X** **issue 00**

(15) Description of product

The isolating amplifier without auxiliary energy type IMC-AI-11Ex-i/L is used as an input isolator for the safe galvanic separation between intrinsically safe measuring signals and non-intrinsically safe output signals.

The intrinsically safe input circuit is safely galvanically separated from the non-intrinsically safe output circuit up to the peak crest value of the voltage of 375 V.

Type code:

IMC-AI-11Ex-i/L

Electrical data:

Output circuit
(Connections X2;
pins 2[+], 4[-])

only for the connection to a non-intrinsically safe circuit with following maximum values:

$U_N = 13.3 \text{ V DC}, I = 0 \dots 20 \text{ mA}$

$U_m = 253 \text{ V AC}$

Input circuit
(Connections X1;
bushings 2 [+], 4 [-])

in type of protection Intrinsic Safety Ex ia IIC/IIB/IIIC/IIIB
only for the connection to a certified intrinsically safe circuit with following maximum values:

$U_i = 27 \text{ V}$

$I_i = 150 \text{ mA}$

$P_i = 1 \text{ W}$

The effective internal capacitance is negligibly small.

The effective internal inductance is negligibly small.

For safety reasons, the input circuit has to be considered as passive.

The maximum values for L_o und C_o , which are permissible in the input circuit, have to be taken from the certificate of the connected apparatus.

Thermal data:

Ambient temperature range:

$-25 \text{ °C} \leq T_a \leq +70 \text{ °C}$

(16) Drawings and documents are listed in the ATEX Assessment Report No. 17 203 195735

(17) Specific Conditions for Use

1. For applications that require devices of EPL Gc and EPL Dc: The connecting and disconnecting of energised non energy limited circuits is not permitted (see warning label).
2. For applications that require devices of EPL Gc and EPL Dc: The protective housing has to be safely screwed to a solid basement with the provided screws resp. with screws according to the manufacturer's manual.
3. For applications that require devices of EPL Dc: The value for the surface temperature was measured without dust layer.
4. For applications that require devices of EPL Dc: The dust is only allowed to be non conductive.
5. For applications that require devices of EPL Dc: The isolating amplifier without auxiliary energy type IMC-AI-11Ex-i/L has to be protected from prolific charge generating mechanisms.

(18) Essential Health and Safety Requirements

No additional ones

- End of Certificate -