

(1) **Statement of Conformity**

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



(3) **Statement of Conformity Number:** TÜV 14 ATEX 153523 X **Issue:** 00

(4) for the product: Multifunctional device (AI/AO and DI/DO isolated barrier) type HiC2441* and HiD2441*

(5) of the manufacturer: **Pepperl + Fuchs GmbH**

(6) Address: Lilienthalstrasse 200, 68307 Mannheim, Germany

Order number: 8000483143

Date of issue: 2018-10-17

(7) The design of this product and any acceptable variation thereto are specified in the schedule to this Statement of Conformity and the documents therein referred to.

(8) The TÜV NORD CERT GmbH 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. 18 214 219516.

(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

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 specific conditions for use specified in the schedule to this Statement of Conformity.

(11) This statement of conformity relates only to the design, examination and tests of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this Statement of Conformity.

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

 **II 3 G Ex ec IIC T4 Gc**

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

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(13) SCHEDULE

(14) Statement of Conformity No. TÜV 14 ATEX 153523 X Issue 00

(15) Description of product

The Multifunctional device type HiC2441* and HiD2441* are single channel multifunction isolator that combine the functionalities of a standard AI/AO and DI/DO isolated barrier needed to set-up a standard separation between Hazardous Area and Safe Area.

The device provides a galvanic isolation and is transparent concerning the signal transfer in both directions without any software/hardware configuration.

There are two different housing sizes: the HiC2441* housing is 12.7 mm wide (HiC series), while the HiD2441* housing is 18 mm wide (HiD series).

The devices are equipped with two connectors, one is for circuitry related to intrinsic safety and the other is for circuitry not related to intrinsic safety.

The afore-mentioned modules are designed for use in hazardous areas which require devices of category 3 in Type of Protection "ec" for explosion groups IIC, IIB, IIA.

Type key:

The following variants are covered by this examination:

HiC2441

HiC2441Y*

HiD2441

HiD2441Y*

Technical data:

Permissible ambient temperature range: -40 °C to +70 °C

Electrical Data

Power Supply
(Connector SL1:

pins 2a, 2b (+) and 1a,1b (-))

Rated Voltage Un: 24 Vdc nominal (19 to 30 V)

Input / Output

(Connector SL1:

pins 8a (+) and 7a (-))

Rated Voltage Un: 15 to 30 V

0/4...20 mA signal for analog input mode

0/4...20 mA signal for analog output mode

0...9 mA signal for binary input mode

0...45 mA signal for binary input or output mode

Input

(Connector SL2

pins 5a (+); 1b(-))

0/4...20 mA signal

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Input / Output
(Connector SL2
pins 5a (+); 5b(-))

0/4...20 mA signal; $U > 16 \text{ V @ } 20 \text{ mA}$ for analog input mode
0/4...20 mA signal; $0 \dots 650 \Omega$ load for analog output mode
0...45 mA signal; $U > 12 \text{ V @ } 40 \text{ mA}$ for binary output mode
mechanical contact for binary input mode

Input / Output
(Connector SL2
pins 5a (+); 1a(-))

$U = 10 \text{ V}$; $0 \dots 9 \text{ mA}$ (Namur input); binary input mode

(16) Drawings and documents are listed in the ATEX Assessment Report No. 18 214 219516.

(17) Specific conditions of use

1. The device shall only be used with the designated termination boards.
2. The device shall only be used in the hazardous area if the termination board is also approved for the hazardous area.
3. The device must be installed and operated only in an environment of overvoltage category II (or better) according to IEC/EN 60664-1.
4. The device must be installed and operated only in a controlled environment that ensures a pollution degree 2 (or better) according to IEC/EN 60664-1.
5. The device must be installed and operated only in surrounding enclosures that
 - a. comply with the requirements for surrounding enclosures according to IEC/EN 60079-0,
 - b. are rated with the degree of protection IP54 according to IEC/EN 60529.
6. Connection or disconnection of energized non-intrinsically safe circuits is only permitted in the absence of a potentially explosive atmosphere.

(18) Essential Health and Safety Requirements

no additional ones

- End of Statement -