

Translation:

(1) **Type Examination Certificate**

(2) Equipment or Protective systems intended for use in potentially explosive atmosphere **Directive 2014 / 34 / EU and SI 2016/1107**

(3) **Number:** **TURCK Ex-17004HX** **issue No.:** **2**

(4) Product: Isolating swichting amplifier  
IM(K)(12)(18)-DI\*\*\_\*\*\_\*\*\*\*\*\_\*\*\*/24VDC/\*\*

(5) Manufacturer: Hans Turck GmbH & Co KG

(6) Address: Witzlebenstr. 7  
45472 Mülheim an der Ruhr

(7) The design of this product and any acceptable variation thereto is specified in the appendix to this Type Examination Certificate.

(8) The Hans Turck GmbH & Co. KG certifies that this product 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 atmospheres given in Annex II to the Directive. The examination and test are recorded in the confidential Assessment Report TURCK Ex-17004HX.

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

**EN IEC 60079-0:2018    EN IEC 60079-7:2015+A1:2018    EN IEC 60079-15:2019**

(10) If the sign "X" is placed after the certificate number, it indicates that the product or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 2014 / 34 / EU and to UK SI 2016/1107. Further requirements of the Directives apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment protective system must include the following:

 **II 3 G Ex ec IIC T4 Gc or**  
**II 3 G Ex ec nC IIC T4 Gc (for relay version)**

Hans Turck GmbH & Co. KG



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Mülheim an der Ruhr, Date 25.04.2022

(i.A. W. Dick)  
Certification Representative

Translation:

(13) **Appendix**

(14) **Statement of Conformity TURCK Ex-17004HX**

(15) Product description

The switching amplifier is used for galvanic separation and the transmission of binary signals.

Ambient temperature range: -25°C ... +70°C

Electrical Data

Supply circuit: U= 10 ... 30 V d. c.

Output circuits (Transistor version): U= 30 V d. c., I= 100 mA  
(Relay version): U= 250 V a. c., I= 2 A, S= 500 VA  
U= 125 V d. c., I= 0,5 A  
U= 30 V d. c., I= 2 A  
P= 60 W

Input circuits: according to EN 60947-5-6 (NAMUR)  
or potential-free contacts

(16) Report Numbers:

Zone2\_A1\_D\_PB\_~\_Turck Ex-17004HX

(17) Special conditions for safe use:

- According to EN/IEC 60079-7, section 4.10.1, the following is valid for this apparatus: The apparatus has to be mounted in a housing tested according to IEC 60079-0, that meets the requirements of degree of protection IP54.  
The apparatus may be installed in an area of not more than pollution degree 2.
- The connecting and disconnecting of energized circuits is only permitted, if no explosion hazardous atmosphere is available.

(18) Essential health and safety requirements:

- no additional ones