

Translation:

(1) **Type Examination Certificate**

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

(3) **Number:** **TURCK Ex-17005HX** **issue No.: 1**

(4) Product: Frequenzy transducer
IM12-FI**-*SF-**(**) -C*(*)/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-17005HX.

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

EN 60079-0:2012/A11:2013

EN 60079-7:2014

EN 60079-15:2010

(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. 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 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 21.02.2018

(i.A. W. Dick)
Certification Representative

Translation:

(13) **Appendix**

(14) **Statement of Conformity TURCK Ex-17005HX**

(15) Product description

The frequency transducer is used for galvanic separation and for monitoring of frequencies, rotation speeds and pulse trains.

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

Electrical Data

Supply circuit: U= 10 ... 30 V DC

Output circuits (Current output): U_o = 22 V(max. 30 V), 4...20 mA
(Relay output): 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

(16) Report Number:

Zone2_A0_D_PB_~_Turck Ex-17005HX

(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