



Translation

EC-TYPE EXAMINATION CERTIFICATE

(1)

(2) Equipment or Protective System intended for use in potentially explosive atmospheres - **Directive 94/9/EC**

(3) EC-Type Examination Certificate Number



TÜV 02 ATEX 1862

(4) Equipment or Protective System: Isolating transducer / isolating amplifier type IM33-FSD-Ex/L

(5) Manufacturer: Hans Turck GmbH & CO KG

(6) Address: Witzlebenstraße 7
D-45472 Mülheim

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

(8) The TÜV Hannover/Sachsen-Anhalt e.V., TÜV Certification Body N° 0032 in accordance with Article 9 of the Council Directive 94/9/EC of March 23, 1994, certifies that this equipment or protective system 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 results are recorded in confidential report N° 02YEX169641.

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

EN 50 014:1997

EN 50 020:1994

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

(11) This EC-type examination certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. 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 or protective system must include the following:



II (1) G [Ex ia] IIC

TÜV NORD CERT GmbH & Co. KG
TÜV CERT-Certification Body
Am TÜV 1
D-30519 Hannover
Tel.: 0511 986-1470
Fax: 0511 986-2555

Hanover, 2002-07-10



TÜV NORD CERT


Head of the
Certification Body



SCHEDULE

(13)

(14) **EC-TYPE EXAMINATION CERTIFICATE N° TÜV 02 ATEX 1862**

(15) Description of equipment or protective system

The isolating transducer / isolating amplifier type IM33-FSD-Ex/L is used for the supply of passive two or multi terminal devices and for the safe galvanic separation of the intrinsically safe and the non intrinsically safe circuits, as well.

The device is executed with two channels.

The maximum permissible ambient temperature is 70°C.

Electrical Data

Supply-
and signal circuits $U_n = 24 \text{ V d. c. (max. 35 V d. c.)}$,
(Terminals 8[-], 9[+] resp. 11[-], 12[+]) $U_m = 253 \text{ V a. c. resp. 125 V d. c.}$

Supply circuits in type of protection Intrinsic Safety EEx ia IIC/IIB
(Terminals
1[-], 2[+] resp. 4[-], 5[+]) maximum values per circuit:
 $U_o = 27.3 \text{ V}$
 $I_o = 90 \text{ mA}$
 $P_o = 615 \text{ mW}$
Characteristic line: linear
The effective internal inductances and capacitances are negligibly small.

EEx ia	IIC	IIB
max. permissible external inductance	1 mH	5 mH
max. permissible external capacitance	70 nF	300 nF

The intrinsically safe supply circuits are safely galvanically separated from the non intrinsically safe circuits up to the peak crest value of the voltage of 375 V.

(16) The test documents are listed in the test report no. 02YEX169641.

(17) Special conditions for safe use

none

(18) Essential Health and Safety Requirements

no additional ones



Translation

1. SUPPLEMENT to

EC TYPE-EXAMINATION CERTIFICATE No. TÜV 02 ATEX 1862

of the company : Hans Turck GmbH & Co KG
Witzlebenstraße 7
D-45472 Mülheim

In the future, the isolating transducer / isolating amplifier type IM33-FSD-Ex/L may also be manufactured according to the documents listed in the test report.

The modifications refer to the circuit diagram, the printed circuit board and the execution of the transformers.

All other details remain unchanged for this 1. supplement.

The test document is listed in the test report no. 02 YEX 550445.

TÜV Hannover/Sachsen-Anhalt e.V.
TÜV CERT-Zertifizierungsstelle
Am TÜV 1
D-30519 Hannover
Tel.: 0511 986-1470
Fax: 0511 986-2555

Hanover, 2003-06-06

i. V. Schubert

Head of the
Certification Body

Wir/ We

HANS TURCK GMBH & CO KG**WITZLEBENSTR. 7, D – 45472 MÜLHEIM A.D. RUHR**

erklären in alleiniger Verantwortung, dass die Produkte
declare under our sole responsibility that the products

Messumformer- Speisetrenner Typ IM33-FSD-Ex/L

auf die sich die Erklärung bezieht, den Anforderungen der folgenden EU-Richtlinien durch Einhaltung der
folgenden Normen genügen:

to which this declaration relates are in conformity with the requirements of the following EU-directives by compliance with the following standards:

EMV – Richtlinie / EMC Directive
EN 61326-1:2013

2014 / 30 / EU**26. Feb. 2014**

Richtlinie / Directive ATEX
EN 60079-0:2012 EN 60079-11:2012

2014 / 34 / EU**26. Feb. 2014**

Weitere Normen, Bemerkungen
additional standards, remarks

Das Produkt stimmt mit den Anforderungen der Richtlinie 2014 / 34 / EU überein. Eine oder mehrere in der zugehörigen EG-Baumusterprüfbescheinigung genannten Normen wurden bereits durch neue Ausgaben ersetzt. Der Hersteller erklärt für das Produkt auch die Übereinstimmung mit den neuen Normenausgaben, da die veränderten Anforderungen der neuen Normenausgaben für dieses Produkt nicht relevant sind.

The product complies with the directive 2014 / 34 / EU. One or more norms mentioned in the respective EC type examination certificate were already replaced by new ones. The manufacturer declares that the product complies with the new valid norms, as the changed requirements mentioned there are not relevant for the product.

Zusätzliche Informationen:

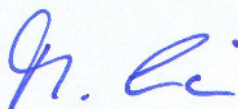
Supplementary information:

Angewandtes ATEX-Konformitätsbewertungsverfahren / ATEX - conformity assessment procedure applied:**Modul B + Modul D / E / module B + module D / E****EU-Baumusterprüfbescheinigung (Modul B) TÜV 02 ATEX 1862 /****EC-type examination certificate (module B)**

ausgestellt von / issued by: TÜV NORD CERT GmbH, Kenn-Nr. / number 0044
Langemarckstraße 20, 45141 Essen

Zertifizierung des QS-Systems gemäß Modul D durch:**certification of the QS-system in accordance with module D by :**

Physikalisch Technische Bundesanstalt, Kenn-Nr. / number 0102,
Bundesallee 100, D-38116 Braunschweig

Mülheim, den 20.04.2016**i.V. Dr. M. Linde, Leiter Zulassungen / Manager Approvals**

Ort und Datum der Ausstellung /
Place and date of issue

Name, Funktion und Unterschrift des Befugten /
Name, function and signature of authorized person