

Translation

(1) Statement of Conformity

(2) Equipment and protective systems intended for use in potentially explosive atmospheres, Directive 94/9/EC

(3) Statement of Conformity Number: TÜV 07 ATEX 553946 X

(4) for the equipment: Isolating amplifier without auxiliary energy type IMC-AO-11Ex-i/L

(5) of the manufacturer: Hans Turck GmbH & Co. KG

(6) Address: Witzlebenstraße 7
D-45472 Mülheim an der Ruhr

Order number: 8000553946

Date of issue: 2007-08-21

(7) This equipment or protective system 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 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 the confidential report No. 07203553946.

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

EN 60079-0:2004 EN 60079-15:2005 EN 61 241-0:2006 EN 61 241-1:2004

(10) If the sign "X" is placed after the certificate 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 statement of conformity 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 3 G Ex nA [nL] IIC/IIB T4 resp. II 3 D Ex tD A22 IP67 T80°C

TÜV NORD CERT GmbH, Langemarkstraße 20, 45141 Essen, accredited 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 certification body

Schwedt

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(13) SCHEDULE

(14) Statement of Conformity No. TÜV 07 ATEX 553946 X

(15) Description of equipment

The isolating amplifier without auxiliary energy type IMC-AO-11Ex-i/L is an apparatus for use in zone 2 explosion hazardous areas according to EN 60 079-15. It is also an apparatus according to EN 61241-1 for use in zone 22 explosion hazardous areas. The isolating amplifier without auxiliary energy type IMC-AO-11Ex-i/L is used for the safe galvanic separation of the non energy limited input circuit (measuring circuit 0 ... 20 mA) and the energy limited output circuit.

The marking for mounting in explosion hazardous areas of zone 2 is Ex nA [nL] IIC/IIB T4.

The marking for mounting in explosion hazardous areas of zone 22 is Ex tD A22 IP67 T80°C.

The permissible ambient temperature range is -25°C ... 70°C.

Electrical Data

Input circuit
(Connections X1;
pins 1[+] and 3[-])

U = 24 V d. c. (max. 30 V d. c.)

Output circuit
(Connections X2;
bushings 1 [+], 3 [-])

in type of protection Energy Limitation Ex nL IIC/IIB
Maximum values:
U_o = 13.3 V
I_o = 97 mA
P_o = 322 mW
Characteristic line: linear
The effective internal capacitances and inductances are negligibly small.

Ex nL	IIC		IIB	
max. permissible external inductance	5 mH	0.5mH	10 mH	1 mH
max. permissible external capacitance	510 nF	1200 nF	2900 nF	5800 nF

The maximum values of the tables are also allowed to be used up to the permissible limits as concentrated capacitances and as concentrated inductances.

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

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(16) The test documents are listed in the test report No. 07203553946.

(17) Special conditions for safe use

1. Category 3G and category 3D applications: The connecting and disconnecting of energised non energy limited circuits is not permitted (see warning label)
2. Category 3G and category 3D applications: 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. Category 3D applications: The value for the surface temperature was measured without dust layer.
4. Category 3D applications: The dust is only allowed to be non conductive.

(18) Essential Health and Safety Requirements

no additional ones

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

Analog-Signaltrenner ohne Hilfsenergie Typ IMC-AO-11Ex-i/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	2014 / 30 / EU	26. Feb. 2014
EN 61326-1:2013		

Richtlinie / Directive ATEX	2014 / 34 / EU	26. Feb. 2014
EN 60079-0:2012	EN 60079-11:2012	EN 60079-15:2010
		EN 60079-31:2014

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 07 ATEX 553223, TÜV 07 ATEX 553946 X /
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