

Translation

(1) EC-Type Examination Certificate



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

(3) Certificate Number TÜV 08 ATEX 554800

(4) for the equipment: Isolating amplifier type IME-AO-11Ex-Hi/L

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

(6) Address: Witzlebenstraße 7

D-45472 Mülheim

Order number: 8000554800

Date of issue: 2008-08-13

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

(8) The TÜV NORD CERT GmbH, notified body No. 0044 in accordance with Article 9 of the Council Directive of the EC of March 23, 1994 (94/9/EC), 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. 08 203 554800.

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

EN 60079-0:2004

EN 60079-11:2007

EN 61241-11:2006

(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 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/IIB resp. II (1) D [Ex iaD]

TÜV NORD CERT GmbH, Langemarckstraße 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) EC-Type Examination Certificate No. TÜV 08 ATEX 554800

(15) Description of equipment

The isolating amplifier type IME-AO-11Ex-Hi/L is used as an output isolator for the transmission of active input signals into the output circuit as well as for the safe galvanic separation between the intrinsically safe output circuit and non intrinsically safe input circuit.

The intrinsically safe output circuit may also be connected to apparatus in explosion hazardous areas caused by dust, which are certified accordingly.

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

Electrical Data

Input circuit U = 24 V d. c. (max. 30 V d. c.), ca. 3W
(Connections 10[+], 9[-]) U_m = 250 V

Output circuit in type of protection Intrinsic Safety Ex ia IIC/IIB
(Connections 3 [+], 4 [-])
Maximum values:
U₀ = 13.3 V
I₀ = 97 mA
P₀ = 322 mW
Characteristic line: linear
The effective internal capacitances and inductances are negligibly small.

Ex ia	IIC		IIB	
max. permissible external inductance	2 mH	0.2 mH	2 mH	0.2 mH
max. permissible external capacitance	420 nF	910 nF	2700 nF	5500 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 intrinsically safe output circuit is safely galvanically separated from the non intrinsically safe input circuit up to the peak crest value of the voltage of 375 V.

(16) The test documents are listed in the test report No. 08 203 554800.

(17) Special conditions for safe use

none

(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

Analogsignaltrenner Typ IME-AO-11Ex-Hi/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

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 08 ATEX 554800, TÜV 08 ATEX 554818 X /
EC-type examination certificate (module B)

ausgestellt von / issued by: TÜV NORD CERT GmbH, Kenn-Nr. / number 0044
Langemarkstraße 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