

(1) TYPE EXAMINATION CERTIFICATE

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

(3) Type Examination Certificate Number: **KEMA 10ATEX0084** Issue Number: **1**

(4) Equipment: **Vibration Sensors Model AC92....., AC93....., LP82....., LP83....., LP91..... and LP93.....**

(5) Manufacturer: **Connection Technology Center, Inc**

(6) Address: **7939 Rae Boulevard, Victor, New York, USA 14564**

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

(8) KEMA Quality B.V. certifies that this equipment 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 test report no. 213329800.

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

**EN 60079-0 : 2006
EN 61241-1 : 2006**

EN 60079-15 : 2005

EN 61241-0 : 2006

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment 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 and not to the manufacturing process and supply of this equipment.

(12) The marking of the equipment shall include the following:



II 3 G D

Ex nA IIC T3 or T4

Ex tD A22 IP6X T150 °C or T105 °C

This certificate is issued on March 24, 2010 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

KEMA Quality B.V.

C.G. van Es
Certification Manager

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° Integral publication of this certificate and adjoining reports is allowed. This Certificate may only be reproduced in its entirety and without any change.

(13) **SCHEDULE**

(14) **to Type Examination Certificate KEMA 10ATEX0084**

Issue No. 1

(15) **Description**

The Vibration Sensors Model AC92.-....., AC93.-....., LP82.-....., LP83.-....., LP92.-... and LP93.-..... are used for acceleration measurement. The piezoelectric sensor converts mechanical forces (e.g. vibrations) of the equipment to which it is mounted into an electrical signal, depending on the version, either a voltage or a current signal. The apparatus is provided with a fixed cable or with a connector for the electrical connections.

AC92. Series - ambient temperature range -54 °C to +125 °C, T3, resp. T150 °C;

AC93. Series - ambient temperature range -40 °C to +80 °C, T4, resp. T105 °C or

ambient temperature range -40 °C to +125 °C, T3 resp. T150 °C;

LP8.. and LP9.. Series - ambient temperature range -40°C to +80°C, T4 resp. T105 °C

Electrical data

Models AC92.-...., AC93.-...., LP82.-...., LP83.-...., LP92.-... and LP93.-....:

Supply and output circuit:

$U_{max} = 28 \text{ V}$, $I_{max} = 100 \text{ mA}$.

Installation instructions

The Manual as provided with the equipment shall be followed in detailed to assure safe operation.

Routine tests

An Electric Strength Test of 500 Vac, during 1 minute, shall be applied between the input terminals and the equipment chassis.

(16) **Test Report**

KEMA No. 213329800.

(17) **Special conditions for safe use**

None.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 213329800.