

[1]

EU-TYPE EXAMINATION CERTIFICATE



[2]

Component intended for use on/in Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

[3]

EU-Type Examination Certificate Number: **UL 22 ATEX 2600U Rev. 0**

[4]

Component: **Intrinsically Safe Isolator**

[5]

Manufacturer: **NVE Corp.**

[6]

Address: **11409 Valley View Rd., Eden Prairie, MN, 55344 USA**

[7]

This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8]

UL International Demko A/S, notified body number 0539 in accordance with Article 17 of the Council Directive 2014/34/EU of the European Parliament and the Council, dated 26 February 2014, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to design and construction of components intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. **US/UL/ExTR22.0050/00.**

[9]

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

EN IEC 60079-0:2018

EN 60079-11:2012

[10]

The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

[11]

This EU-Type Examination Certificate relates only to the design and construction of the specified component. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.

[12]

The marking of the component shall include the following:

 **II 1 G Ex ia IIC Ga**

Certification Manager
Jan-Erik Storgaard

This is to certify that the sample(s) of the Component described herein ("Certified Component") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the component sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured component. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all products to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2022-05-31

Notified Body

UL International Demko A/S, Ballerup 5A, 2750 Ballerup, Denmark
Tel. +45 44 85 65 65, info.dk@ul.com, www.ul.com

[13] **Schedule**
[14] **EU-TYPE EXAMINATION CERTIFICATE No.**
UL 22 ATEX 2600U Rev. 0

[15] Description of Component:

The devices are an Intrinsically Safe digital isolator when installed per the control drawings. There are 11 models with two different package options; a SOIC8 and 16-Pin with the same die set and transformers for each.

Nomenclature for type

SOIC8:
IL011-3E
IL012-3E

16-Pin:
IL3685VE
IL711VE
IL721VE
IL715VE
IL716VE
IL717VE
IL015E
IL016E
IL017E

Temperature range

The ambient temperature range is -40 °C to +85°C.

Electrical data

SOIC-8:
Ui = 60 V
Ii = 300 mA
Pi = 0.675 W Total
Li = 0 µH
Ci = 4 pF

0.3" SOIC-16

Ui = 60 V
Ii = 300 mA
Pi = 1.3 W
Li = 0 µH
Ci = 4 pF

[16] Descriptive Documents

The scheduled documents are listed in the report no. provided under item no. [8] on page 1 of this EU-Type Examination Certificate.

[17] Schedule of limitations:

- The component is to be fitted on a PCB inside a suitable enclosure.
- The Maximum Temperature Coefficients at 85C:
 - SOIC8: 88.5 C/W
 - 16-Pin: 88.5 C/W

[18] Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information



The trademark  will be used as the company identifier on the marking label.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.