

CERTIFICATE

(1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **DEKRA 21ATEX0103** Issue Number: **0**

(4) Product: **Relay Barrier, Type EB3C-*N, EB3L-*N, EB3N-* and EB3S-B*N**

(5) Manufacturer: **IDEC CORPORATION**

(6) Address: **2-6-64 Nishimiyahara, Yodogawa-ku, Osaka 532-0004, Japan**

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

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products 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 number NL/DEK/ExTR21.0081/00.

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

EN IEC 60079-0 : 2018

EN 60079-11 : 2012

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

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

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



II (1) G [Ex ia Ga] IIC
II (1) D [Ex ia Da] IIIC

Date of certification: 3 August 2022

DEKRA Certification B.V.

R. Schuller
Certification Manager

Page 1/2



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(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 21ATEX0103**

Issue No. **0**

(15) **Description**

The Relay Barriers of types EB3C-*N, EB3L-*N, EB3N-* and EB3S-B*N are associated apparatus intended for connection to passive intrinsically safe circuits. They are provided with intrinsically safe I/O-circuits which can differ in the number of channels from 1 channel up to a maximum of 16 channels. The signals of the intrinsically safe circuits are electrically isolated from the non-intrinsically safe circuits by optocouplers and they are available via relay contacts or transistor switches.

Ambient Temperature -20 °C to +60 °C.

Electrical data

See the Annex to NL/DEK/ExTR21.0081/00.

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

To maintain intrinsic safety, the signal input or output terminals (secondary) may only be connected to intrinsically safe circuits where both the wiring and the connected equipment maintain 500 V isolation to the hazardous area earthing/bonding connections, per clause 6.3.13 of EN 60079-11 : 2012.

(16) **Report Number**

No. NL/DEK/ExTR21.0081/00.

(17) **Specific conditions of use**

None.

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

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/DEK/ExTR21.0081/00.

(20) **Certificate history**

Issue 0 - 420292900 initial certificate