



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEx CML 21.0140U** Page 1 of 4 [Certificate history:](#)
Issue 0 (2022-05-25)

Status: **Current** Issue No: 1

Date of Issue: 2023-07-12

Applicant: **IDEC CORPORATION**
2-6-64 Nishimiyahara, Yodogawa-ku, Osaka 532-0004
Japan

Ex Component: Lamp unit type EU2B-XL**

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Flameproof Ex "db", Increased Safety Ex "eb"**

Marking: Ex db eb IIC Gb
Ts = -20°C to +80°C

Approved for issue on behalf of the IECEx
Certification Body:

S. Roubedakis

Position:

Technical Manager

Signature:
(for printed version)

Date:
(for printed version)

2023-07-12

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

Eurofins E&E CML Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom





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Manufacturer: **IDEC CORPORATION**
2-6-64 Nishimiyahara, Yodogawa-ku, Osaka 532-0004
Japan

Manufacturing locations: **IDEC CORPORATION** **IDEC Corporation, Amagasaki Plant**
2-6-64 Nishimiyahara, Yodogawa-ku, Osaka 532-0004 5-8-10, Shioe, Amagasaki-shi
Osaka 532-0004 Hyogo JP-661-0976
Japan **Japan**

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The component and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the component listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[GB/CML/ExTR21.0231/00](#)

[GB/CML/ExTR23.0114/00](#)

Quality Assessment Report:

[NO/NEM/QAR10.0001/17](#)



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Ex Component(s) covered by this certificate is described below:

The Lamp unit type EU2B-XL** and Lens unit type EU2B-UL10* (see CML 21ATEX31294U / IECEx CML 21.0150 when assembled together are served as Pilot light type EU2B-YL. The assembly shall be mounted inside an enclosure to either meet the increased safety or flameproof requirement.

The pilot light signal lamp is comprising of a non-metallic body with screw terminals at the bottom and inner lens together with external lens.

See Certificate Annex for full Product Description & Conditions of Manufacture.

SCHEDULE OF LIMITATIONS:

See Certificate Annex for Schedule of Limitations.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above) Issue 1

This issue introduced the following change:

1. To recognise the addition of another manufacturing location.

Annex:

[Certificate Annex IECEx CML 21.0140U Issue 1.pdf](#)

Annexe to: IECEx CML 21.0140U, Issue 1
Applicant: IDEC Corporation
Apparatus: Lamp unit type EU2B-XL**

Description

The Lamp unit type EU2B-XL** and Lens unit type EU2B-UL10* (see CML 21ATEX31294U / IECEx CML 21.0150) when assembled together are served as Pilot light type EU2B-YL. The assembly shall be mounted inside an enclosure to either meet the increased safety or flameproof requirement.

The pilot light signal lamp is comprising of a non-metallic body with screw terminals at the bottom and inner lens together with external lens.

Nomenclature:

Lamp unit for pilot light EU2B-XL**D*

EU2B-XL	*	*	D	*
1	2	3	4	5

- | | | | | |
|----------------|--|--|----------------------------|--|
| <p>1: Type</p> | <p>2: Operating voltage</p> <ul style="list-style-type: none"> 66 = AC/DC 6 V 11 = AC/DC 12 V 22 = AC/DC 24 V 16 = AC 100/110 V (for Transformer) 116 = AC 115 V (for Transformer) 110 = AC/DC 100 V / 120 V 126 = AC 120 V (for Transformer) 26 = AC 200/220 V (for Transformer) 236 = AC 230 V (for Transformer) 246 = AC 240 V (for Transformer) 386 = AC 380 V (for Transformer) 46 = AC 400/440 V (for Transformer) 486 = AC 480 V (for Transformer) 200 = AC 200/220V 230 = AC 230/240V | <p>3: Terminal configuration</p> <ul style="list-style-type: none"> C = screw terminal F = screw terminal (IP20) | <p>4: Part of the type</p> | <p>5: LED colour</p> <ul style="list-style-type: none"> PW = pure white |
|----------------|--|--|----------------------------|--|



Conditions of Manufacture

- i. Lamp unit: the routine test required in IEC 60079-1, section 16.1.1, is omitted, because the Lamp unit type EU2B-XL has a volume of less than 10 cm³ (Lamp unit: V = 8,6 cm³), and according to section 16.2, enclosures with a volume of less than 10 cm³ are exempt.
- ii. A routine test shall be performed in accordance with Clause 6.1 on all manufactured samples. The test shall be performed at a voltage of 2U+1000V, or 1500V, whichever is higher. The voltage shall be held for at least 60 seconds with no breakdown.

Specific Conditions of Use

- i. The Lamp unit EU2B-XL** shall be mounted in an enclosure that meets the requirements of an approved type of protection as specified in IEC 60079-0, section 1 and have a minimum rating of IP54.
- ii. When installing the Lamp unit EU2B-XL** in an enclosure designed to Increased Safety "e" type of protection in compliance with IEC 60079-7, the clearance and creepage distances specified in sections 4.4 and 4.5, and in table 1 must be maintained.
- iii. Installation of electrical components requires a further assessment by an ExCB.
- iv. Repair of the flameproof joints is not permitted.
- v. The service temperature of the device is -20°C to +80°C.