



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: IECEx PTB 15.0007U Issue No: 0 Certificate history:
Issue No. 0 (2015-05-29)

Status: Current Page 1 of 3

Date of Issue: 2015-05-29

Applicant: IDEC Corporation
6-64 Nishimiyahara 2-chome
Yodogawa-ku
Osaka, 532-0004
Japan

Electrical Apparatus: Operators and lens units type EU2B-U***(*) and type EU9Z-BP
Optional accessory:

Type of Protection: "e", "tb"

Marking: Ex e IIC Gb
Ex tb IIC Db


Approved for issue on behalf of the IECEx
Certification Body:

Dr.-Ing. Uwe Klausmeyer

Position:

Head of Department Explosion Protection in Energy Technology

Signature:
(for printed version)


2015-06-03

Date:

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.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:



IECEX Certificate of Conformity

Certificate No: IECEx PTB 15.0007U Issue No: 0
Date of Issue: 2015-05-29 Page 2 of 3
Manufacturer: **IDEC Corporation**
6-64 Nishimiyahara 2-chome
Yodogawa-ku
Osaka, 532-0004
Japan

Additional Manufacturing
location(s):

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 electrical apparatus 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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust Ignition protection by enclosure "t"
IEC 60079-7 : 2006-07 Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

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

TEST & ASSESSMENT REPORTS:

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

Test Report:

[DE/PTB/ExTR15.0003/00](#)

Quality Assessment Report:

[NO/NEM/QAR10.0001/05](#)



IECEX Certificate of Conformity

Certificate No: IECEX PTB 15.0007U

Issue No: 0

Date of Issue: 2015-05-29

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description

The operators and lens units type EU2B-U***(*) and type EU9Z-BP, predominantly made of polyamide are intended for installation in lids of enclosures of electrical apparatus in the type of protection Increased Safety "e" and Protection by Enclosure "tb". Accessory is a lock nut out of POM and aluminium.

The fastening is made in the contact block adapter.

Technical data, Nomenclature and Schedule of Limitations see Annex.

CONDITIONS OF CERTIFICATION: NO

Annex:

[Annex-IECEX PTB 15.0007U-Issue 0.pdf](#)



Applicant: IDEC Corporation
6-64 Nishimiyahara 2-chome
Yodogawa-ku
Osaka, 532-0004
Japan

Electrical Apparatus: Operators and lens units
type EU2B-U***(*) and type EU9Z-BP

Description

The operators and lens units type EU2B-U***(*) and type EU9Z-BP, predominantly made of polyamide are intended for installation in lids of enclosures of electrical apparatus in the type of protection Increased Safety "e" and Protection by Enclosure "tb". Accessory is a lock nut out of POM or Aluminium.

The fastening is made in the contact block adapter.

Technical Data

Approved Types	
Operator, flush pushbutton	Type EU2B-U B1**
Operator, extended pushbutton	Type EU2B-U B2**
Operator, mushroom pushbutton	Type EU2B-U B3**
Operator, selector	Type EU2B-U S***
Lens Unit	Type EU2B-U L10 *
Operator, emergency stop	Type EU2B-U BV**
Operator, key selector	Type EU2B-U SK**
Mounting hole plug	Type EU9Z-BP

Ambient temperature	-20 °C to +50 °C
Rated service temperature range	-20 °C to +80 °C
Ingress protection	IP65 according to EN 60529
Suitable for equipment of group II with a degree of mechanical hazard	high



Nomenclature

Operator for push button and emergency stop switch

EU2B-U	B1	00	**
1	2	3	4

- 1: Type
- 2: Operator style / function
 - B1: Flush pushbutton / Momentary
 - B2: Extended pushbutton / Momentary
 - B3: Mushroom pushbutton / Momentary
 - BV3: Mushroom / Emergency stop
- 3: Part of the type
- 4: Button color
 - R: Red
 - G: Green
 - B: Black
 - Y: Yellow
 - W: White
 - S: Blue
 - *: etc.

Operator for (key) selector switch

EU2B-U	S	**	00	*
1	2	3	4	5

- 1: Type
- 2: Operator style
 - S: Selector (Knob operator)
 - SK: Selector (Key operator)
- 3: Position / function
 - 2: 2-position / Maintained
 - 2R: 2-position / Maintained (Overlap)
 - 2J: 2-position / Maintained (Special function)
 - 21: 2-position / Spring return from right
 - 3: 3-position / Maintained
 - 31: 3-position / Spring return from right
 - 32: 3-position / Spring return from right
 - 33: 3-position / Spring return two-way
- 4: Part of the type
- 5: May be followed by additional letters and / or number(s) for key



Lens unit for pilot light

EU2B-U	L1 0	**
1	2	3

- 1: Type
- 2: Type
- 3: Lens color

Schedule of Limitations

The type of protection IP65 is guaranteed only by compliance with the manufacturer's instructions and proper installation in the enclosure.

In order to avoid electrostatic charges the operators and lens units have to be mounted on a metallic enclosure or conductive earthed frames.

Installation of electrical components requires a further assessment by an ExCB.