



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.: issue No.:

Status:

Date of Issue: **2014-07-11** Page 1 of 3

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

Electrical Apparatus: **Luminaires**
Optional accessory:

Type of Protection: **Flameproof "d" and Dust "tb"**

Marking: Ex d IIB T4 Gb
Ex tb IIIC T130° Db

*Approved for issue on behalf of the IECEx
Certification Body:*

Paul T. Kelly

Position:

Principal Engineer, Globa Hazardous Locations

*Signature:
(for printed version)*

Date:

2014-07-11

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:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America





IECEx Certificate of Conformity

Certificate No.: IECEx UL 14.0048X

Date of Issue: **2014-07-11**

Issue No.: **0**

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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 60079-1 : 2007-04
Edition: 6 | Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" |
| IEC 60079-31 : 2008
Edition: 1 | Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't' |

*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:
[US/UL/ExTR14.0018/01](#)

Quality Assessment Report:
[NO/NEM/QAR10.0001/04](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The EF1A series of luminaires are composed of an LED module, driver module, and flameproof enclosure with various end cover options and various lenses. The luminaire is provided with a single LED type. The end covers for the enclosure have four types of entry options and the option to include a push button. The end covers are secured to the body of the enclosure using four fastener. The luminaire is mounted using either a fixed angle mount or an adjustable angle mount.

Please see Annex for additional details.

CONDITIONS OF CERTIFICATION: YES as shown below:

- Remove dust off the plastic button with such as a wet cloth to prevent the button from being charged with static electricity, when using the EF1A with ON/OFF switch as an equipment for Group III (explosive dust atmospheres).
- When disassembling or assembling the EF1A to perform maintenance or repairing, contact IDEC.

Annex to IECEx UL 14.0048X

Nomenclature:

	EF1A-1	2	1	W	1	P	S	A	N2	A2	*****
	I	II	III	IV	V	VI	VII	VIII	IX	X	XI
I.	Basic Model Designation EF1A-1										
II.	Rated Voltage 1 – DC 24V 2 – 100 to 240VAC										
III.	Glass Optical Specifications Blank – Tempered Glass 1 – Translucent Reinforced Glass										
IV.	Illumination Color W - White										
V.	Light Distribution Characteristics Blank – Standard 1 – Without Lens										
VI.	Lead-in fittings Blank – Cable gland on one end / without operate switch T – Cable glands on both ends / without operate switch P – Cable glands on one end / with operate switch										
VII.	Terminal Blank – Spring-clamp terminal block S – Screw Terminal Block C – Lead Wire										
VIII.	Mounting Bracket Blank – None A – Fixed B – Angle adjustable										
IX.	Conduit N1 – NPT 1/2 N2 – NPT 3/4 M25 – M25 M32 – M32										
X.	Operate Switch Blank – None A1 – Flush Pushbutton (alternate) A2 – Extended Pushbutton (alternate)										
XI.	Manufacturer Control number ***** - Additional Letters and/or numbers										

Accessory:

		EF9Z-	A
		I	II
I.	Basic Model Designation		
	EF9Z		
II.	Mounting Bracket Type		
	A- Fixed		
	B- Angle adjustable		