



# 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](http://www.iecex.com)

Certificate No.: **IECEX CML 24.0007** Page 1 of 3 [Certificate history:](#)  
Status: **Current** Issue No: 0  
Date of Issue: 2024-05-17  
Applicant: **IDEC CORPORATION**  
2-6-64 Nishimiyahara, Yodogawa-ku, Osaka 532-0004  
**Japan**  
Equipment: **SA2E-EX type Intrinsically safety Photoelectric Sensor**  
Optional accessory:  
Type of Protection: **Intrinsic Safety "ia"**  
Marking: **Ex ia IIB T4 Ga**  
**-30 °C ≤ Ta ≤ +55 °C**

Approved for issue on behalf of the IECEx  
Certification Body:

**H M Amos**

Position:

**Technical Specialist**

Signature:  
(for printed version)

Date:  
(for printed version)

May, 17th, 2024

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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 [www.iecex.com](http://www.iecex.com) or use of this QR Code.



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:

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 equipment 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 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

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 equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[GB/CML/ExTR24.0079/00](#)

Quality Assessment Report:

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



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**EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The equipment is a range of intrinsically safe photoelectric sensors.

**Refer to Certificate Annex for Product Description.**

**SPECIFIC CONDITIONS OF USE: NO**

**Annex:**

[Certificate Annex IECEx CML 24.0007 Issue 0.pdf](#)

**Annexe to:** IECEx CML 24.0007  
**Apparatus:** SA2E-EX type Intrinsically safety Photoelectric Sensor  
**Applicant:** IDEC CORPORATION

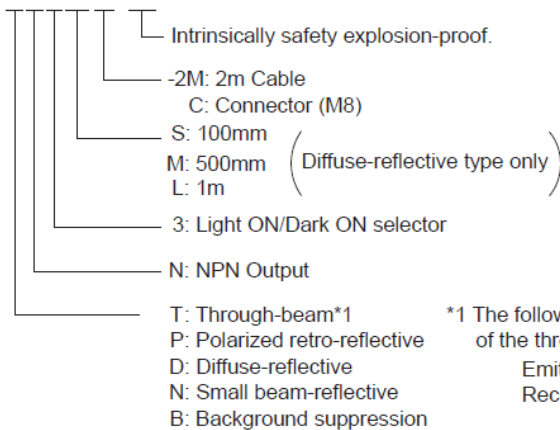


## Description

The SA2E-EX type Intrinsically Safety Photoelectric Sensor is a range of sensors featuring the following variants.

### 【Model Number Designation】

SA2E-□N 3 △ □ -EX



\*1 The following is displayed on the body of the through-beam type product.

Emitter : SA2E-T□3P□  
 Receiver: SA2E-T□3R□

The sensors comprise a plastic enclosure in which each variant PCB is assembled. For the connections to external circuits, the sensors can be supplied with a three pins connector or a three-core cable (2 m length). The sensors are for fixed installation through M3 screws placed on the sensors body, and it can also be provided with a metallic bracket that is connected to the installation earthing. The sensor lens can be supplied with a slit cover made in a metallic material.

The equipment is to be supplied in accordance with the following limiting parameters:

$U_i = 13.2 \text{ V}$

$I_i = 56 \text{ mA}$

$P_i = 185 \text{ mW}$

$C_i = 5.4 \text{ } \mu\text{F}$

$L_i = 10 \text{ } \mu\text{H}$

## Conditions of Manufacture

None.

## Specific Conditions of Use

None.

## Components used which are covered by Ex Certificates issued to older editions of Standards

No Ex Components.



Certificate Annex IECEX  
 Version: 10.0 Approval: Approved



**Eurofins E&E CML Limited**  
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