# EU Type Examination Certificate CML 24ATEX2012 Issue 0

1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

2 Equipment **SA2E-EX type Intrinsically Safety Photoelectric Sensor**

3 Manufacturer **IDEC CORPORATION**

4 Address 2-6-64 Nishimiyahara, Yodogawa-Ku,
Osaka 532-0004, Japan

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 CML B.V., Chamber of Commerce No 67386717, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, 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 equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.

7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.

8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018 EN 60079-11:2012

10 The equipment shall be marked with the following:

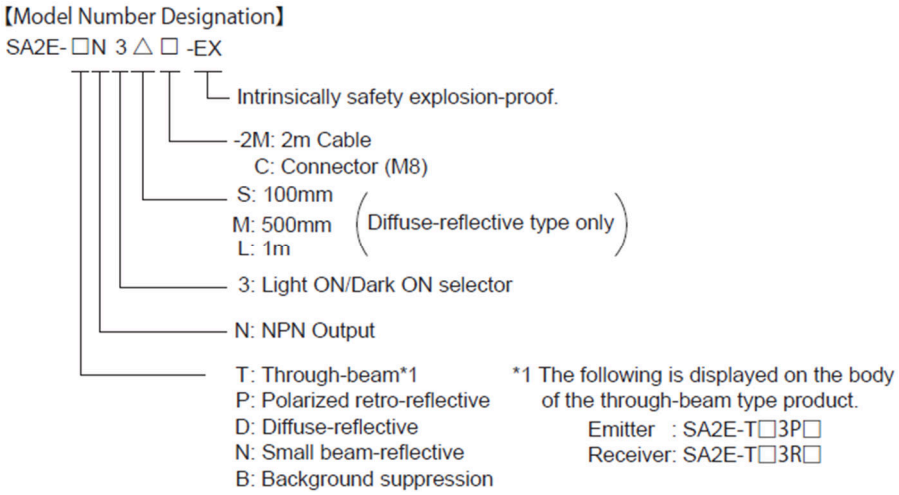
Ex II 1 G

Ex ia IIB T4 Ga

-30 °C ≤ Ta ≤ +55 °C

## 11 Description

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




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:

Ui = 13.2 V

Ii = 56 mA

Pi = 185 mW

Ci = 5.4 µF

Li = 10 µH

## 12 Certificate history and evaluation reports

| Issue | Date | Associated report | Notes |
|---|---|---|---|
| 0 | 17 May 2024 | R17208A/00 | Initial issue |

Note: Drawings that describe the equipment or component are listed in the Annex.

## 13 Conditions of Manufacture

None.

## 14 Specific Conditions of Use (Special Conditions)

None.