



[1] **EC-TYPE EXAMINATION CERTIFICATE**

[2] **Equipment or Protected System Intended for use  
in Potentially explosive atmospheres  
Directive 94/9/EC**

[3] **EC-Type Examination Certificate Number:** Nemko 03ATEX1628X **Issue No.:** 1

[4] **Equipment or Protective System:** Buzzer  
[5] **Applicant/ Manufacturer:** IDEC CORPORATION  
[6] **Address:** 1-7-31 Nishimiyahara,  
Yodogawa-ku, Osaka 532-8550  
JAPAN

[7] **This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.**

[8] **Nemko AS, notified body number 0470 in accordance with Article 9 of Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.**

**The examination and test results are recorded in confidential report 151613 no.**

[9] **Compliance with the Essential Health and Safety Requirements has been assured by compliance with:**

**CENELEC EN 60079-0:2009, CENELEC EN 60079-11:2007 and CENELEC EN 60079-26:2007**

[10] **If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.**

[11] **This EC-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.**

[12] **The marking of the equipment or protective system shall include the following:**

 **II 1G Ex ia IIC T6, Ta ≤ 60°C**

Oslo, 2010-07-27

**Rolf Hoel**  
**Certification Manager, Ex-products**



*This certificate may only be reproduced in its entirety and without any change, schedule included.*

*Postal address:*  
P.O.Box 73 Blindern  
N-0314 OSLO, NORWAY

*Office address:*  
Gaustadalléen 30  
0373 OSLO

*Telephone:*  
+47 22 96 03 30  
*Fax:*  
+47 22 96 05 50

*Enterprise number:*  
NO 974404532

[13] Schedule

[14] EC-TYPE EXAMINATION CERTIFICATE No Nemko 03ATEX1628X Issue 1

15] Description of Equipment or Protective System

The buzzer containing piezoelectric device and is used in combination with the EB3L lamp barrier or equipment that has equivalent intrinsically safe characteristics and ratings. The buzzer must be mounted partly or completely within an enclosure.

Type Designation

EB3P - a b c d e f

- |  |   |  |
|--|---|--|
| a: Kind<br>Z: Buzzer<br>(none): No designation           | c: Fitting size<br>N: <input type="checkbox"/> 30<br>(none): No designation | e: Operation<br>F: Intermittent sound<br>C: Continuous sound<br>(Note): No designation |
| b: Construction<br>U: U series<br>(none): No designation | d: Rated voltage<br>12: 12V<br>(none): No designation                       |  |

Safety Data

- |                              |                         |
|------------------------------|-------------------------|
| Maximum input voltage        | U <sub>i</sub> : 13,2V  |
| Maximum input power          | P <sub>i</sub> : 46,9mW |
| Maximum internal capacitance | C <sub>i</sub> : 260nF  |
| Maximum internal inductance  | L <sub>i</sub> : 100mH  |

Ambient Temperature

T<sub>a</sub>: -20°C to +60°C

[16] Report No. 151613.

Descriptive Documents				
Name/Title	Drawing No.	Rev.	Date	Sheets
Marking plate	A49030	E	2010.07.06	1
EB3P-Z out-side view	A49031	B	2003.12.22	1
EB3P-Z Buzzer unit	A49032	-	2003.09.19	1



*This certificate may only be reproduced in its entirety and without any change, schedule included.*

Postal address:  
P.O.Box 73 Blindern  
N-0314 OSLO, NORWAY

Office address:  
Gaustadalléen 30  
0373 OSLO

Telephone:  
+47 22 96 03 30  
Fax:  
+47 22 96 05 50

Enterprise number:  
NO 974404532

**Certificate History and Associated Nemko Reports**

Issue	Date	Report	Description
0	2004-01-08	15570	Prime Certificate released, Type: EB3P - a b c d e f
1	2010-07-27	151613	Upgrade to compliance with EN 60079-series

**[17] Special Conditions for Safe Use**

The buzzer must be mounted partly or completely within an enclosure according to EN60079-11 and EN60079-26.

The apparatus shall be designed in such a way that, even in the event of rare incidents, ignition sources due to impact and friction sparks are excluded.

**[18] Essential Health and Safety Requirements**

See item 9



*This certificate may only be reproduced in its entirety and without any change, schedule included.*

Postal address:  
P.O.Box 73 Blindern  
N-0314 OSLO, NORWAY

Office address:  
Gaustadalléen 30  
0373 OSLO

Telephone:  
+47 22 96 03 30  
Fax:  
+47 22 96 05 50

Enterprise number:  
NO 974404532