



TYPE APPROVAL CERTIFICATE

Certificate No. : TKY17821-EL002 **Initial Approval** : 23rd July, 2004.
Product : Explosion-Proof Electric Equipment
Manufacturer : IDEC Corporation
2-6-64 Nishimiyahara, Yodogawa-Ku, Osaka 532-0004, Japan

Product Description : Type : EB3P-Zabcd (Intrinsically Safe Type Buzzer with Lamp Barrier)
* Manufacturing Place : IDEC Corporation Amagasaki Factory
5-8-10 Shioe, Amagasaki-shi, Hyogo
661-0976, Japan
" See Appendix 1 "

- Approval Condition** :
1. This approval is granted on the basis of the approved documents and test report no. IB-NK-002-2.
 2. The product or packing is to be marked with the manufacturer's name and type designation on a suitable position.
 3. Individual Product Certification is not required.

THIS IS TO CERTIFY that the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows and entered in the "List of Approved Manufacturers and Type Approved Equipment".

Pt. 6, Ch. 1, Art. 109 of the Rules for Classification of Steel Ships and IEC 60079-11

This Certificate is valid until 22nd July, 2019.
Issued at Busan, Korea on 25th August, 2014.



KOREAN REGISTER OF SHIPPING

*General Manager of
Class Equipment Team*

Note :1 : The approval will be automatically suspended and the Certificate become invalid from the expiry date of the Certificate in the event that the extension has not been granted or the renewal of the Certificate is not underway.

2 : The manufacturer should notify this Society of any modification or changes that may affect the validity of this Certificate.

Appendix 1

Product Description and/or Approval Condition

Certificate No : TKY17821-EL002

Date of Issue : 25th August, 2014.

Product Descriptions :

1. Particulars

- 1) Construction : Intrinsically Safe Type(Ex ia IIC T6)
- 2) Intrinsically Safe Circuit
 - Max. Output Voltage : 13.2 V
 - Max. Output Current : 14.2 mA
 - Max Power : 46.9 mW
 - Permissible Capacitance : 260 nF
 - Permissible Inductance : 100 mH
- 3) Safety Barrier : Relay barrier and Lamp barrier certified by the Society is to be applied to this product.
- 4) Ambient Temperature : 60 °C

2. Type Designation

- EB3P-Zabcd
 - a = Construction ;
U : U Series, Nil : No Designation
 - b = Fitting Size ;
N : $\Phi 30$, Nil: No Designation
 - c = Rated Voltage ;
12 : 12 V, Nil : No designation
 - d = Operation ;
F : intermittent Sound, C : Continuous Sound, Nil : No Designation

3. Documents : A49021, A49022, A49050

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