



TYPE APPROVAL CERTIFICATE

Certificate No. : TKY17821-EL003 **Initial Approval** : 25th February, 2015.
Product : Explosion-Proof Electric Equipment
Manufacturer : IDEC Corporation
2-6-64 Nishimiyahara, Yodogawa-Ku, Osaka 532-0004, Japan

Product Description : Type : EB3C-N (Intrinsically Safe Type Relay Barrier)
EB3L-N (Intrinsically Safe Type Lamp Barrier)

" See Appendix 1 "

- Approval Condition** :
1. This approval is granted on the basis of the approved documents and certificate no. IECEx PTB 10.0015.
 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 24th February, 2020.
Issued at Busan, Korea on 25th February, 2015.



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-EL003

Date of Issue : 25th February, 2015.

Product Descriptions ;

1. Particulars

- 1) EX-protection : Intrinsically Safe Type([Ex ia] IIC, [Ex ia] IIIC)
- 2) Intrinsically Safe Circuit (16ch. Common / 1ch. separate);
 - Max. Output Voltage : 13.2 V / 13.2 V
 - Max. Output Current : 227.2 mA / 14.2 mA
 - Max Power : 750 mW / 46.9 mW
 - Permissible Capacitance : 0.49 μ F / 0.47 μ F
 - Permissible Inductance : 0.60 mH / 87.5 mH
- 3) Non-Intrinsically Safe Circuit
 - Permissible Voltage : AC 250V(50/60Hz), DC 250V
- 4) Ambient Temperature : -20°C ~ 60 °C

2. Type Designation

1) EB3C-abcdeN

- a = Output Type;
R: Relay Output, T: Transistor Output, M: MOSFET
- b = Output Channels;
01, 02, 03, 04C, 05, 06, 08, 08C, 10, 16C (C indicates common type only)
- c = Type of Transistor Output;
K: Sink, S: Source (for 04C, 08C and 16C)
- d = Power Supply;
A: AC, D: DC
- e = Connection;
-C: Connector, Nil: Terminal

2) EB3L-abcdeN

- a = Output type;
S: Supper LED
- b = Number of channels;
01, 02, 03, 04C, 05, 06, 08, 08C, 10, 16C (C indicates common type only)
- c = Input type;
K: Sink, S: Source
- d = Power supply;
A: AC, D: DC
- e = Connection;
-C: Connector, Nil: Terminal

3. Documentation

- 1) EB3C-abcdeN : EB3C-N-IS-ME01, A39761~A39782, A49410, A39793, A39794, A49412
- 2) EB3L-abcdeN : EB3L-N-IS-ME01, A39795~A39816, A49411, A39826, A39827, A49413
- 3) Test report No. : 15-306-005N issued by IDEC CORPORATION and KL80140667,
KL80140669 issued by JAPAN QUALITY ASSURANCE ORGANIZATION

< End of page >