



CERTIFICATE NUMBER  
**01-YO213452/1-PDA**

DATE  
30 May 2006

ABS TECHNICAL OFFICE  
Yokohama

EXPIRE DATE  
(Subject to the condition stated below)  
30 May 2011

# CERTIFICATE OF Design Assessment

This is to Certify that a representative of this Bureau did, at the request of  
**IDEC CORPORATION**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate. It will remain valid for five years from the date of issue or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Combination Display Light - Incandescent Illumination

MODEL: SLC30N-ab-DS3(a: 01 to 10, b: 01 to 26)  
(See attachment)

ABS RULE: 2006 Steel Vessel Rules 1-1-4/7.7 and 4-9-7

OTHER STANDARD: UL 508, IEC60947-5-1(1997)

AMERICAN BUREAU OF SHIPPING

Yasuyuki Arachi

Manager of Yokohama Engineering Services



**Design Assessment (DA) Certificate  
Attachment for Listing**

Refer to: YoH

File Ref.: GEN45021

**DA Certificate No:** 01-YO213452/1-PDA

**Issue Date:** 30 May 2006

**Expire Date:** 30 May 2011

*(Subject to the condition stated on the DA Certificate)*

**Company:** IDEC CORPORATION

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**Product/Equipment:** Combination Display Light - Incandescent Illumination

**Model:** SLC30N-ab-DS3(a: 01 to 10, b: 01 to 26)

**Description:** Combination display light-incandenscent illumination

**Intended Service:** Indication of monitoring systems for ACC, ACCU, or ABCU

**Rating:** Catalog specification of ABS approved model  
1) Type No.: SLC30N-XXXX-DS3XX  
2) Lamp: LS-3  
3) Rated operating voltage: AC/DC 24V  
4) Operating voltage range: AC/DC 24V -10%~+10%  
5) Operating ambient temperature: -20 ~ +55 degree C (No condensation)  
6) Max. window: 200 windows

**Applicable ABS Rule:** 2006 Steel Vessel Rules 1-1-4/7.7 and 4-9-7

**Applicable Other Standard:** UL 508, IEC60947-5-1(1997)

**Service Restrictions:** The above components are to be tested in accordance with 4-9-7/Table 10 of the Rules "Performance Tests" in the presence of the Surveyor after assembled as a sub-assembly unit, in the panel, or in the console. The performance tests are to be carried out preferably at the assembled plant before installation onboard. However, if it is impracticable, the performance tests may be carried out after installation onboard.

**Comments:** Notes for installation for ABS approved model  
a) Up to 4 windows (Type F equivalent), it is possible to light continuously. In case of application more than 4 windows, following condition shall be applied.  
b) In case of continuous lighting, lighting ratio shall be max 30% in a checker pattern.



## Design Assessment (DA) Certificate Attachment for Listing

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Except for a) and b), do not light more than 15 minutes continuously.  
Also, it is recommended that the ventilation be provided for enough cooling especially when re-lighting.

Recommended cooling time is 150 minutes at 200 windows.

Note that it is possible to light continuously up to 4 windows (F equivalent) no matter what the total number of windows (up to 200).

### Documents and Notes:

#### Revision History

Revision No.	Rev Description	ABS Letter Reference	ABS Letter Date
0	Renewal	213452	15 March 2001
1	Revalidation	YoH/162235	11 May 2006