



TYPE APPROVAL CERTIFICATE

Certificate No. : CPH16186-AC001 **Initial Approval** : 22nd October, 2002.
Product : Annunciator
Manufacturer : Littelfuse SELCO A/S
Betonvej 10, DK-4000, Roskilde, Denmark

Product Description : Type : Analog Alarm Annunciator (M3000)

- Power supply : 24 VDC $\pm 30\%$, Max. 400 mA
- Inputs : 24, organized in 8 plug-in connectors
- Outputs : 14 on/off open collector
- Alarms : 48 with programmable input reference
- LED's : 24, each controlled by one or more alarms
- LCD : 2 \times 16 character with background light
- Communication : RS485 (MODBUS-RTU or SELCO BUS protocol)
- Degree of protection : IP 54 (front)
- Operating temp. : -20 to +70 $^{\circ}$ C
- Firmware version : 281011 version M111028.hex

Approval Condition : 1. This approval is granted on the basis of the test report No. DANAK-195254 dated 16th Oct. 2000 and DANAK-198611 dated 20th Dec. 2006.
2. 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. 2, Sec. 1, Art. 301 of the Rules for Classification, Steel Ships.

This Certificate is valid until 21st October, 2017.

Issued at Busan, Korea on 22nd June, 2015.



KOREAN REGISTER OF SHIPPING

*General Manager of
Marine & Ocean 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.