



POTVRDA O TIPNOM ODOBRENJU
TYPE APPROVAL CERTIFICATE

Br / No 03-001472/031189

Potvrđuje se da je ovaj proizvod, u skladu s Pravilima za klasifikaciju brodova, Dio 1. - Opći propisi, Odjeljak 3. - Tipno odobrenje proizvoda, odobren za ugradnju na brodove i postrojenja pod nadzorom Hrvatskog registra brodova.
This is to certify that this product on the basis of the Rules for the classification of ships, Part 1 - General requirements, Chapter 3 - Type approval of products, is approved for use on board ships and installations under supervision of the Croatian Register of Shipping.

TIP I OPIS PROIZVODA:
TYPE AND DESCRIPTION OF PRODUCT:

Modular Navigation Light Controller – AHD-DPS02

AHD-DPS02 G14	Basic Module	SW – Ver. 3.35
AHD-DPS02 A07	Extension Module	SW – Ver. 12
AHD-DPS02 BS	Operation and Indicator Module	SW – Ver. 3

PROIZVOĐAČ:
MANUFACTURER:

Böning Automationstechnologie GmbH & Co.KG
Am Steenöver 4
27777 Ganderkesee
GERMANY

PROIZVOD UDOVOLJAVA SLIJEDEĆIM PRAVILIMA/PROPISIMA:
THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:

Hrvatski registar brodova: **Pravila za klasifikaciju brodova,**
Dio 12. – Električna oprema, Dio 15. – Sredstva za signalizaciju
Croatian Register of Shipping: *Rules for the classification of ships,*
Part 12. – Electrical equipment, Part 15. – Signalling means

IACS UR E10:

DETALJI O PROIZVODU I UVJETIMA CERTIFIKACIJE DANI SU NA POLEĐINI.
FURTHER DETAILS OF THE PRODUCT AND CONDITIONS FOR CERTIFICATION ARE GIVEN OVERLEAF.

ODOBRENJE VRIJEDI DO: **2019-10-12**
APPROVAL IS VALID UNTIL:

Mjesto i datum Split, 2015-09-30
Place and date

M.P. _____
(Seal)

Marinko Popović, dipl.ing.

Napomena: Ova potvrda nije valjana ako se proizvod ili način njegove proizvodnje promijenio u odnosu na tipno ispitani proizvod. Proizvođač treba obavijestiti Hrvatski registar brodova o bilo kojoj izmjeni na proizvodu kako bi ishodio valjanu potvrdu.
Note: This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Croatian Register of Shipping of any modification or changes to the product in order to obtain a valid certificate.

PODROBNJI OPIS PROIZVODA:*DETAIL PRODUCT DESCRIPTION:***Osnovne funkcije:***Basic functionalities:*

*Basic Module with 14 lamp circuits
 3 relay outputs and 1 binary input
 Recording of operation hours for each lamp individually
 Extension Module with 7 lamp circuits
 Operation and Indicator module – lamp switching, indication, dimming, life time warning
 Alarm for lamp failure and power supply failure
 Main and emergency supply
 Cold test at -25 °C passed
 CAN and Modbus communication*

PODRUČJE PRIMJENE / POSEBNI I GRANIČNI UVJETI:*APPLICATIONS / LIMITATIONS:***Bez ograničenja***No limitations***DOKUMENTACIJA ZA TIPNO ODOBRENJE:***TYPE APPROVAL DOCUMENTATION:***Tehnička dokumentacija***Technical documentation***- Operation Manual****Tipno ispitivanje – Elektromagnetska kompatibilnost***Type Testing – Electromagnetic Compatibility***- EMV Services, Test report No. 07/7100-9-3****Tipno ispitivanje – Utjecaji okoliša***Type Testing – Environmental Tests***- Paconsult, Test report No. 07-1692 Revision 1****Ispitivanje funkcionalnosti***Performance Test***- Test protocol ver. 2 – dated 17.08.2007.****OZNAČAVANJE PROIZVODA:***MARKING OF PRODUCT:***Modular Navigation and Signal Lights Monitoring and Control System AHD-DPS02, BÖNING****UVJETI ZA CERTIFIKACIJU:***CONDITIONS OF CERTIFICATION:***Bitne izmjene u hardveru i softveru moraju se odobriti prije instalacije na brod.****Sve hardverske i softverske promjene sustava moraju biti zapisane tijekom primjene na brodu.****Zapisi o izmjenama moraju se dostaviti HRB-u radi provjere i odobrenja.***Major changes in the hardware and software are to be approved before being installed on the vessel.**All changes in hardware or software are to be recorded as long as the system is in use on board.**The records of all changes are to be forwarded to CRS for evaluation and approval.***Raščlana**

15.20.00

Zamjenjuje potvrdu

03-001271/030940