



Type Approval Certificate

Germanischer Lloyd

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

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| Certificate No. | 5471608 HH |
| Company | Böning Automationstechnologie GmbH & Co. KG Am Steenöver 4 27777 Ganderkesee, GERMANY |
| Product Description | Modular Navigation Light Controller |
| Type | AHD-DPS02 |
| Environmental Category | C, EMC1 |
| Technical Data / Range of Application | System consists of: AHD-DPS02 G14: Basic Module with 14 lamp circuits, 3 relay outputs and 1 binary input, Recording of operation hours individual for each lamp, CAN and Modbus communication. AHD-DPS02 A07: Extension Module with 7 lamp circuits. AHD-DPS02 BS: Operation and Indicator module for console flush mounting with buzzer and backlight dimming, Functions: Lamp switching, lamp status indication (on, off, failure with alarm); power status, system status, remaining lamp life time warning. A250: Main selector switch for power supply. Cold test at -25°C passed. SW Version 3. |
| Test Standard | Guidelines for the Performance of Type Approvals Part 2, Edition 2003. Regulations for the Use of Computers and Computer Systems; MSC.253(83). |
| Documents | Test report : paconsult 07-1692-BE-System3 + amendment. EMV Services 07/7100-9- 3.Performance Test Report dated 2007-07-27. Technical Documentation. |
| Remarks | For LED lamps the alarm limit for lifetime monitoring has to be adjusted according to the life time expectancy specified by lamp maker. |
| Valid until | 2013-01-18 |
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| File No. | I.A.05 |
| Hamburg, | 2008-06-06 |

Type Approval Symbol



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Jürgen Wittburg

Jens Dietrich

This certificate is issued on the basis of "Regulations for the Performance of Type Tests, Part 0, Procedure".