



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.

Certificate No. **9910496 HH**

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

Product Description **Control- and Monitoring Device**

Type **AHD 414 A**

Environmental Category **C, EMC2**

Technical Data /
Range of Application **Power supply: 24 V DC**
**Inputs: 10 binary inputs n/o or n/c with wire-break monitoring facility
1 serial interface (TTY)**
**Outputs: 1 serial interface (TTY)
3 relay-outputs programmable
Rating: 5 A, 50 V DC**
Degree of protection: IP 44 (front)
Software Version V 1.1
Tests and evidence according requirement class 3

Test Standard **Guidelines for the Performance of Type Approvals, Part 2, Edition 2003**

Documents **Manual: AHD 414
Test Reports: MAZ 96 / 6030-1-4, -4a, dated 1996-04-22; RMS: 1-04/96
Circuit diagram: AHD 414 A, page 1+2
Additional Test Report: EMV Services 04/4015-1, dated 2004-02-11**

Remarks **If used as safety system the suitability is to be agreed with the respective engine
maker.**

Valid until **2011-12-06**

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File No. **I.A.03**

Hamburg, 2007-03-22

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".