



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. **2667305 HH**

Company **CLS Collecte Localisation Satellites**
8-10, rue Hermes Parc Technologique du Canal
31520 Ramonville Saint-Agne, France

Product Description **Ship Security Alert System (SSAS)**

Type **SHIPLOC V**

Environmental Category **C; F (antenna); EMC1**

Technical Data /
Range of Application **Ship Security Alert System (SSAS) using ARGOS satellite system with internal GPS consisting of:**
- Control unit board, type Kenwood TSS-A01SSG-005, with ARGOS transmitter, type Kenwood T-2071, and GPS receiver, type JRC CCA-450JZA;
- ARGOS and GPS antenna;
- Battery pack (6 V DC 7 Ah), type YUASA Reliart RE7-6;
- DC/DC converter board, type Kenwood S2269;
- Main alert button box and second alert button box;
Option: Additional alert button boxes (max. about 10).

Power supply: 10 to 40 V DC, nominal 24 V DC
Degree of protection: IP 67

Software Version: 00_02
Test and evidence according to Requirement Class 1.

Test Standard **IMO Res. MSC.147(77); MSC/Circ.1072; IEC 60945 (2002);**
Guidelines for the Performance of Type Approvals, Part 2 (2003).

Documents **Approval file CLS.DT-NT-04-528, Issue 1rev0:2004-10-27 incl.**
User Manual, doc. no. TM3-2600 Rev1:2004-08; Test Report No. 60022960-516212 A
and B; dimensional drawings and wiring diagrams.

Remarks **None**

Valid until **2010-10-20**

Page **1 of 1**

File No. **I.E.03**

Hamburg, 2005-10-21

Type Approval Symbol



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J. Wittburg

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