



## TYPE APPROVAL CERTIFICATE

### 형 식 승 인 증 서

**Certificate No.** : LDN23417-FD002                      **Date of Approval** : 18th November, 2008.  
**Product** : Fire Detectors  
**Manufacturer** : APOLLO FIRE DETECTORS LTD.  
 36 Brookside Road, Havant, Hampshire, P09 1JR. U.K

**Product Description** : Conventional Orbis Fire Detector ;  
 - Type : ORB-HT-41XXX-MAR, ORB-OP-42XXX-MAR, ORB-OH-43XXX-MAR  
 Intrinsically Safe Orbis Fire Detector ;  
 - Type : ORB-HT-51XXX-APO, ORB-OP-52XXX-APO, ORB-OH-53XXX-APO

" See Appendix 1 "

**Approval Condition** : 1. The product or packing is to be marked with manufacturer name and type designation on a suitable position.  
 2. Individual Product Certification is not required.

" See Appendix 1 "

**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, Art. 301 of the Rules for Classification, Steel Ships and SOLAS 74/78 as Amended Ch. II-2, Regulation 13.

This Certificate is valid until 17th November, 2013.

Issued at Daejeon, Korea on 18th November, 2008.



( Lee Woon-ho )

General Manager of  
 Materials and 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 is not under attendance for completion of the renewal survey.

2 : The manufacturer should notify this Society of any modification or changes that may affect the validity of this Certificate.

## Appendix 1

# Product Description and/or Approval Condition

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Date of Approval : 18th November, 2008.

Product Description :

1. Conventional Orbis Fire Detector ;
  - 1) Heat Detector (ORB-HT-41XXX-MAR)
    - ORB-HT-41001-MAR : Class A1R with SensAlert/FasTest
    - ORB-HT-41002-MAR : Class A2S with SensAlert/FasTest
    - ORB-HT-41003-MAR : Class BR with SensAlert/FasTest
    - ORB-HT-41004-MAR : Class BS with SensAlert/FasTest
    - ORB-HT-41005-MAR : Class CR with SensAlert/FasTest
    - ORB-HT-41006-MAR : Class CS with SensAlert/FasTest
    - ORB-HT-41013-MAR : Class A1R with SensAlert/FasTest/FI LED
    - ORB-HT-41014-MAR : Class A2S with SensAlert/FasTest/FI LED
    - ORB-HT-41015-MAR : Class BR with SensAlert/FasTest/FI LED
    - ORB-HT-41016-MAR : Class BS with SensAlert/FasTest/FI LED
    - ORB-HT-41017-MAR : Class CR with SensAlert/FasTest/FI LED
    - ORB-HT-41018-MAR : Class CS with SensAlert/FasTest/FI LED
  - 2) Optical Smoke Detector (ORB-OP-42XXX-MAR)
    - ORB-OP-42001-MAR : with SensAlert/FasTest/DirtAlert
    - ORB-OP-42003-MAR : with SensAlert/FasTest/DirtAlert/FI LED
  - 3) Multisensor Smoke Detector (ORB-OH-43XXX-MAR)
    - ORB-OH-43001-MAR : with SensAlert/FasTest/DirtAlert
    - ORB-OH-43003-MAR : with SensAlert/FasTest/DirtAlert/FI LED
2. Intrinsically Safe Orbis Fire Detector ;
  - 1) Heat Detector (ORB-HT-51XXX-APO)
    - ORB-HT-51145-APO : Class A1R with SensAlert/FasTest
    - ORB-HT-51147-APO : Class A2S with SensAlert/FasTest
    - ORB-HT-51149-APO : Class BR with SensAlert/FasTest
    - ORB-HT-51151-APO : Class BS with SensAlert/FasTest
    - ORB-HT-51153-APO : Class CR with SensAlert/FasTest
    - ORB-HT-51155-APO : Class CS with SensAlert/FasTest
    - ORB-HT-51157-APO : Class A1S with SensAlert/FasTest
    - ORB-HT-51146-APO : Class A1R with SensAlert/FasTest/FI LED
    - ORB-HT-51148-APO : Class A2S with SensAlert/FasTest/FI LED
    - ORB-HT-51150-APO : Class BR with SensAlert/FasTest/FI LED
    - ORB-HT-51152-APO : Class BS with SensAlert/FasTest/FI LED
    - ORB-HT-51154-APO : Class CR with SensAlert/FasTest/FI LED
    - ORB-HT-51156-APO : Class CS with SensAlert/FasTest/FI LED
    - ORB-HT-51158-APO : Class A1S with SensAlert/FasTest/FI LED
  - 2) Optical Smoke Detector (ORB-OP-52XXX-APO)
    - ORB-OP-52027-APO : with SensAlert/FasTest/DirtAlert
    - ORB-OP-52028-APO : with SensAlert/FasTest/DirtAlert/FI LED
  - 3) Multisensor Smoke Detector (ORB-OH-53XXX-APO)
    - ORB-OH-53027-APO : with SensAlert/FasTest/DirtAlert
    - ORB-OH-53028-APO : with SensAlert/FasTest/DirtAlert/FI LED
3. Bases ;
  - ORB-MB-00001-MAR Orbis TimeSaver Base
  - ORB-RB-40004-MAR Orbis Base Relay
  - ORB-BA-50008-APO Orbis IS Base Adaptor
  - ORB-MB-50018-APO Orbis IS TimeSaver Base

< To be continued >

## Appendix 2

# Product Description and/or Approval Condition

**Certificate No :** LDN23417-FD002

**Date of Approval :** 18th November, 2008.

Approval Condition :

3. This approval is granted on the basis of test reports & documents
  - Product guide & General assembly drawings
  - 210362, 210363, 201364, 211499, 211500
  - 1840, 1841, 1884
  - TE210364SW, TE211500SW, TE210362BSW, TE210362-SW, TE210363SW
  - Baseefa06ATEX0007X (Orbis IS)

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