



TYPE APPROVAL CERTIFICATE

Certificate No. : LDN23417-FD002 **Initial 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-AP0, ORB-OP-52XXX-AP0, ORB-OH-53XXX-AP0

" See Appendix 1 "

Approval Condition : " See Appendix 2 "

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 EN54-5, EN54-7

This Certificate is valid until 17th November, 2023

Issued at Busan, Korea on 2nd July, 2018



KOREAN REGISTER OF SHIPPING

Jung Eun. Kim
General Manager of
Marine & Ocean Equipment Team

- Note : 1. This certificate will be valid subject to complying with the approval conditions described on the certificate and/or on the Rules of this Society.
2. This certificate will be invalid from the expiry date aforementioned unless the extension or renewal has been granted to the applicant or the manufacturer.
3. Any significant modifications or changes in design or construction to the above product without approval from this Society will render this certificate invalid.
4. Should the specified rules, regulations or standards be amended during the validity of this certificate, the product is to be re-approved by this Society in accordance with the requirements as amended.*

Appendix 1

Product Description and/or Approval Condition

Certificate No : LDN23417-FD002

Date of Issue :2nd July, 2018

A. 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 Issue : 2nd July, 2018

B. Approval Condition :

1. 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, P101167-1001
 - Baseefa06ATEX0007X (Orbis IS)
2. The product or packing is to be marked with manufacturer name and type designation on a suitable position.
3. Explosion-proof certification by a notified/recognized certification body is not covered by this certificate. Rating and special for safe use in hazardous area are to be obtained from the relevant valid Ex-Certificate.
4. Unless specially directed by the Administration, this approval is not to be construed as a substitute for a flag Administration's approval. In order to be installed on board the Korean flag vessels in Korea, this product is to be type approved by the Korean Government.
5. Individual Product Certification is not required.

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