



Type Approval Certificate

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.	24 282 - 04 HH
Company	Apollo Fire Detectors Ltd. 36, Brookside Road Havant, Hampshire PO9 1JR, UNITED KINGDOM
Product Description	Conventional Orbis Fire Detectors Conventional Orbis Intrinsically Safe Fire Detectors
Type	ORB-OP; ORB-OH; ORB-HT; ORB-MB; ORB-RB; ORB-BA
Environmental Category	C, EMC1
Technical Data / Range of Application	<p>Conventional Optical Detectors:</p> <ul style="list-style-type: none"> - ORB-OP-4 2001-MAR: with SensAlert, FasTest and DirtAlert - ORB-OP-4 2003-MAR: with SensAlert, FasTest, DirtAlert and Flashing LED <p>Conventional Intrinsically Safe Optical Detectors:</p> <ul style="list-style-type: none"> - ORB-OP-5 2027-APO: with SensAlert, FasTest and DirtAlert - ORB-OP-5 2028-APO: SensAlert, FasTest, DirtAlert and Flashing LED <p>Conventional Multi-Sensor Detectors:</p> <ul style="list-style-type: none"> - ORB-OH-4 3001-MAR: with SensAlert, FasTest and DirtAlert - ORB-OH-4 3003-MAR: with SensAlert, FasTest, DirtAlert and Flashing LED <p>Conventional Intrinsically Safe Multi-Sensor Detectors:</p> <ul style="list-style-type: none"> - ORB-OH-5 3027-APO: with SensAlert, FasTest and DirtAlert - ORB-OH-5 3028-APO: with SensAlert, FasTest, DirtAlert and Flashing LED <p>Conventional Bases:</p> <ul style="list-style-type: none"> - ORB-MB-0 0001-MAR: Standard Base - ORB-RB-4 0004-MAR: Relay Base
Test Standard	Guidelines for the Performance of Type Approvals, Edition 2003; EN54-5; EN54-7; EN 50130-4
Documents	Test reports: TE210(362;363;364;362SW;363SW;364SW;362BSW;363BSW); TE211(499;500;499SW/B;500SW); LPC JOB 219271; ACL 1971.0-1973.0; bre 227758-1/SW, 230076-1/SW, 230077,-1/SW, ; SW Questionnaire acc. to EN54-5/7; Baseefa06ATEX0007X; Documents and drawings according to submitted file
Remarks	None
Valid until	2014-09-16
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File No.	I.D.09
Hamburg,	2009-09-17

Type Approval Symbol



Germanischer Lloyd

Jürgen Wittburg

Heinz Scheffler

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Technical Data/
Range of Application

Conventional Heat Detectors:

- ORB-HT-4 1001-MAR: Class A1R with SensAlert and FasTest
- ORB-HT-4 1013-MAR: Class A1R with SensAlert, FasTest and Flashing LED
- ORB-HT-4 1002-MAR: Class A2S with SensAlert and FasTest
- ORB-HT-4 1014-MAR: Class A2S with SensAlert, FasTest and Flashing LED
- ORB-HT-4 1003-MAR: Class BR with SensAlert and FasTest
- ORB-HT-4 1015-MAR: Class BR with SensAlert, FasTest and Flashing LED
- ORB-HT-4 1004-MAR: Class BS with SensAlert and FasTest
- ORB-HT-4 1016-MAR: Class BS with SensAlert, FasTest and Flashing LED
- ORB-HT-4 1005-MAR: Class CR with SensAlert and FasTest
- ORB-HT-4 1017-MAR: Class CR with SensAlert, FasTest and Flashing LED
- ORB-HT-4 1006-MAR: Class CS with SensAlert and FasTest
- ORB-HT-4 1018-MAR: Class CS with SensAlert, FasTest and Flashing LED

Conventional Intrinsically Safe Heat Detectors:

- ORB-HT-5 1145-APO: Class A1R with SensAlert and FasTest
- ORB-HT-5 1146-APO: Class A1R with SensAlert and FasTest and Flashing LED
- ORB-HT-5 1157-APO: Class A1S with SensAlert and FasTest
- ORB-HT-5 1158-APO: Class A1S with SensAlert and FasTest and Flashing LED
- ORB-HT-5 1147-APO: Class AS2 with SensAlert and FasTest
- ORB-HT-5 1148-APO: Class AS2 with SensAlert and FasTest and Flashing LED
- ORB-HT-5 1149-APO: Class BR with SensAlert and FasTest
- ORB-HT-5 1150-APO: Class BR with SensAlert, FasTest and Flashing LED
- ORB-HT-5 1151-APO: Class BS with SensAlert and FasTest
- ORB-HT-5 1152-APO: Class BS with SensAlert, FasTest and Flashing LED
- ORB-HT-5 1153-APO: Class CR with SensAlert and FasTest
- ORB-HT-5 1154-APO: Class CR with SensAlert, FasTest and Flashing LED
- ORB-HT-5 1155-APO: Class CS with SensAlert and FasTest
- ORB-HT-5 1156-APO: Class CS with SensAlert, FasTest and Flashing LED

Intrinsically Safe Bases

- ORB-BA-5 0008-APO: Base Adaptor
- ORB-MB-5 0018-APO: TimeSaver Base

EEx ia IIC T4 (Baseefa06ATEX0007X) for ORB-OP-5,-OH-5, -HT-5, -BA-5, -MB-5

Valid until **2014-09-16**

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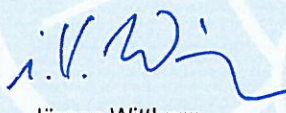
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