

Certificate of Constancy of Performance

This is to certify that:

Ningbo Ambest Electronics Co. Ltd
Mogao Road
Dongqian Lake Tourist Resort District
Ningbo
Zhejiang
315121
China

Holds Certificate No:

0086-CPR-587750

In respect of:

EN 54-5:2001 + A1: 2002

Fire detection and fire alarm systems. Heat detectors. Point detectors.

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the above construction products.

This certificate attests that all the provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the above standards under system 1 are applied and that the product fulfils (products fulfil) all the prescribed requirements set out above.

For and on behalf of BSI,
a Notified Body for the above Regulation
(Notified Body Number 0086):



Gary Fenton, Global Assurance Director

This certificate remains valid as long as the test methods and/or factory production control requirements included in the harmonised standard(s), used to assess the performance of the declared characteristics, do not change and the product(s), and the manufacturing conditions in the plant(s) are not modified significantly.

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Page 1 of 3

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Manufacturing Plant

Ningbo Ambest Electronics Co. Ltd
 Mogao Road
 Dongqian Lake Tourist Resort District
 Ningbo
 Zhejiang
 315121
 China

Product Information

Model Reference Type

HNC-310-H2 Conventional 2-Wire Class A2 Heat Detector.
 HNC-310-HL Conventional 2-Wire Class A2 Heat Detector with Remote Indicator.

Certified for use with the CN3023 and CN3043 detector mounting base.

Model Reference Type

HNA-360-H2 Addressable Class A2 Heat Detector.
 HNA-360-HL Addressable Class A2 Heat Detector with Remote Indicator.

for use with the CN302A and CN304A addressable detector mounting base.

The above models may also be branded under the following alternate names:

Model Reference	Alternative Branded Model	Supplier
HNC-310-H2	ISL-1088	INTELLIGENT SYSTEMS (FAR EAST) Ltd.
HNC-310-HL	ISL-1088L	INTELLIGENT SYSTEMS (FAR EAST) Ltd.
HNA-360-H2	ISL-1088A	INTELLIGENT SYSTEMS (FAR EAST) Ltd.
HNA-360-HL	ISL-1088AL	INTELLIGENT SYSTEMS (FAR EAST) Ltd.

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Appendix 1

Harmonised Technical Specification		EN 54-5:2001 + A1
Essential Characteristics	Performance	Clause
Nominal activation conditions / sensitivity / response delay (response time) and performance under fire conditions		
Classification	Pass	4.2
Position of heat sensitive elements	Pass	4.3
Directional dependence	Pass	5.2
Static response temperature	Pass	5.3
Response times from typical application temperature	Pass	5.4
Response times from high ambient temperature	Pass	5.6
Reproducibility	Pass	5.8
Operational Reliability		
Individual alarm indication	Pass	4.4
Connection of ancillary devices	Pass	4.5
Monitoring of detachable detectors	Pass	4.6
Manufacturer's adjustments	Pass	4.7
On-site adjustment of response behaviour	Pass	4.8
Marking	Pass	4.9
Data	Pass	4.10
Additional requirements for software controlled detectors	Pass	4.11
Tolerance to supply voltage		
Variation in supply parameters	Pass	5.7
Durability of Operational Reliability		
Cold (operational)	Pass	5.9
Damp heat, cyclic (operational)	Pass	5.11
Damp heat, steady state (endurance)	Pass	5.12
Sulphur dioxide (SO ₂) corrosion (endurance)	Pass	5.13
Shock (operational)	Pass	5.14
Impact (operational)	Pass	5.15
Vibration, sinusoidal (operational)	Pass	5.16
Vibration, sinusoidal (endurance)	Pass	5.17
Durability of Operational Reliability, Electrical Stability		
Electromagnetic compatibility (EMC), immunity (operational)	Pass	5.18

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Page 3 of 3

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