

# Declaration of Performance



**Manufacturer:** European Safety Systems Ltd.  
Impress House, Mansell Road, Acton  
London, W3 7QH, United Kingdom

**Equipment Type:** AL100X, AL105NX, AL112NX, AL121X (24Vdc and 48Vdc versions)  
**Intended Use:** Fire Detection and Fire Alarm Systems installed in and around buildings  
**System of Assessment and Verification of Constasy of Performance:** 1  
**Notified Body for EC type Examination and Factory Production Control:** VdS Schadensverhütung GmbH  
Notified Body No.: 0786  
Amsterdamer Str 172-174, 50735 Köln, Germany  
**Certificate of Constasy of Performance:** 0786-CPR-21349  
**Standards Applied:** EN54-3:2001 + A1:2002 + A2:2006  
EN54-23:2010

**Declared Performance:**

Essential Characteristics	Performance	Standard / Clause
Performance Parameters under fire conditions <ul style="list-style-type: none"> <li>- Sound Level</li> <li>- Frequencies and sound pattern</li> <li>- Reproducibility</li> <li>- Operational Performance</li> <li>- Attention Drawing signal and message broadcast sequences</li> <li>- Synchronisation</li> <li>- Broadcast message performance</li> <li>- Attention Drawing signal/silence/message sequence timing</li> <li>- Message synchronisation testing</li> </ul>	Pass Pass Pass Pass NPD* NPD* NPD* NPD* NPD*	EN54-3:2001 + A1:2002 + A2:2006 Clause 4.2 Clause 4.3 Clause 5.2 Clause 5.3 Clause C.3.1 Clause C.3.2 Clause C.5.1 Clause C.5.2 Clause C.5.3
Operational Reliability <ul style="list-style-type: none"> <li>- Duration</li> <li>- Construction</li> <li>- Marking and data</li> <li>- Durability</li> </ul>	Pass Pass Pass Pass	EN54-3:2001 + A1:2002 + A2:2006 Clause 4.4 Clause 4.5 Clause 4.5 Clause 5.4
Durability of operational reliability, temperature resistance <ul style="list-style-type: none"> <li>- Dry Heat (operational)</li> <li>- Dry Heat (endurance)</li> <li>- Cold (operational)</li> <li>- Damp heat, cyclic (operational)</li> <li>- Damp heat, steady state (endurance)</li> </ul>	Type B Type B Type B Type B Type B	EN54-3:2001 + A1:2002 + A2:2006 Clause 5.5 Clause 5.6 Clause 5.7 Clause 5.8 Clause 5.9
Durability of operational reliability, Humidity resistance <ul style="list-style-type: none"> <li>- Damp heat, cyclic (operational)</li> <li>- Damp heat, steady state (endurance)</li> <li>- Damp heat cyclic (endurance)</li> </ul>	Type B Type B Type B	EN54-3:2001 + A1:2002 + A2:2006 Clause 5.8 Clause 5.9 Clause 5.10
Durability of operational reliability, Corrosion Resistance <ul style="list-style-type: none"> <li>- Sulphur Dioxide (SO2) corrosion (endurance)</li> </ul>	Pass	EN54-3:2001 + A1:2002 + A2:2006 Clause 5.11
Durability of operational reliability, Shock and vibration resistance <ul style="list-style-type: none"> <li>- Shock (operational)</li> <li>- Impact (operational)</li> <li>- Vibration, sinusoidal (operational)</li> <li>- Vibration, sinusoidal (endurance)</li> </ul>	Pass Pass Pass Pass	EN54-3:2001 + A1:2002 + A2:2006 Clause 5.12 Clause 5.13 Clause 5.14 Clause 5.15
Durability of operational reliability, Electrical stability <ul style="list-style-type: none"> <li>- Electromagnetic compatibility (EMC), immunity (operational)</li> </ul>	Pass	EN54-3:2001 + A1:2002 + A2:2006 Clause 5.16
Durability of operational reliability, resistance to ingress <ul style="list-style-type: none"> <li>- Enclosure protection</li> </ul>	Type B	EN54-3:2001 + A1:2002 + A2:2006 Clause 5.17

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Operational reliability - Duration of operation - Provision for external conductors - Flammability of materials - Enclosure protection - Access - Manufacturer's adjustments - On-site adjustment of behaviour - Requirements for software controlled devices	Pass Pass Pass Type B Pass Pass Pass Pass Pass	EN54-23:2010 Clause 4.2.1 Clause 4.2.2 Clause 4.2.3 Clause 4.2.4 Clause 4.2.5 Clause 4.2.6 Clause 4.2.7 Clause 4.2.8
Performance parameters under fire conditions - Coverage Volume - Variation of light output - Minimum and maximum light intensity - Light colour - Light pattern and frequency of flashing - Marking and data - Synchronisation	Pass Pass Pass Pass Pass / 1Hz Pass Pass	EN54-23:2010 Clause 4.3.1 Clause 4.3.2 Clause 4.3.3 Clause 4.3.4 Clause 4.3.5 Clause 4.3.6 Clause 4.3.7
Durability of operational reliability, temperature resistance - Dry Heat (operational) - Dry Heat (endurance) - Cold (operational)	Type B Type B Type B	EN54-23:2010 Clause 4.4.1.1 Clause 4.4.1.2 Clause 4.4.1.3
Durability of operational reliability, Humidity resistance - Damp heat, cyclic (operational) - Damp heat, steady state (endurance) - Damp heat cyclic (endurance)	Type B Pass Type B	EN54-23:2010 Clause 4.4.2.1 Clause 4.4.2.2 Clause 4.4.2.3
Durability of operational reliability, Shock and vibration resistance - Shock (operational) - Impact (operational) - Vibration, sinusoidal (operational) - Vibration, sinusoidal (endurance)	Pass Pass Pass Pass	EN54-23:2010 Clause 4.4.3.1 Clause 4.4.3.2 Clause 4.4.3.3 Clause 4.4.3.4
Durability of operational reliability, Corrosion Resistance - Sulphur Dioxide (SO2) corrosion (endurance)	Pass	EN54-23:2010 Clause 4.4.4
Durability of operational reliability, Electrical stability - Electromagnetic compatibility (EMC), immunity (operational)	Pass	EN54-23:2010 Clause 4.4.5

\* NPD: No performance determined, only applicable to voice sounders

The performance of the product identified above is in conformity with the declared performance. This declaration of performance is issued under the sole responsibility of the manufacturer identified above.

**Martin Streetz**  
Quality Assurance Manager

**Date and Place of Issue:** London, 01/08/2014  
**Document No:** 0786-CPR-21349  
**Issue:** A