

Declaration of Performance



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

Equipment Type: SONFL1X (24Vdc), SONFL1X-HO (24Vdc)
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-21348
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"> - Sound Level - Frequencies and sound pattern - Reproducibility - Operational Performance - Attention Drawing signal and message broadcast sequences - Synchronisation - Broadcast message performance - Attention Drawing signal/silence/message sequence timing - Message synchronisation testing 	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"> - Duration - Construction - Marking and data - Durability 	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"> - Dry Heat (operational) - Dry Heat (endurance) - Cold (operational) - Damp heat, cyclic (operational) - Damp heat, steady state (endurance) 	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"> - Damp heat, cyclic (operational) - Damp heat, steady state (endurance) - Damp heat cyclic (endurance) 	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"> - Sulphur Dioxide (SO2) corrosion (endurance) 	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"> - Shock (operational) - Impact (operational) - Vibration, sinusoidal (operational) - Vibration, sinusoidal (endurance) 	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"> - Electromagnetic compatibility (EMC), immunity (operational) 	Pass	EN54-3:2001 + A1:2002 + A2:2006 Clause 5.16
Durability of operational reliability, resistance to ingress <ul style="list-style-type: none"> - Enclosure protection 	Type B	EN54-3:2001 + A1:2002 + A2:2006 Clause 5.17

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Operational reliability <ul style="list-style-type: none"> - 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	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 <ul style="list-style-type: none"> - 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 <ul style="list-style-type: none"> - 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 <ul style="list-style-type: none"> - 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 <ul style="list-style-type: none"> - 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 <ul style="list-style-type: none"> - Sulphur Dioxide (SO2) corrosion (endurance) 	Pass	EN54-23:2010 Clause 4.4.4
Durability of operational reliability, Electrical stability <ul style="list-style-type: none"> - 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

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Document No:
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