thefirebeamcompany

Declaration of Performance
No: DoP-002-05-22

1. Unique identification code of the product-type:

   Line-type smoke detector: Firebeam Blue

2. Intended use/es:

   Smoke detectors – Line detectors using an optical beam intended for use in fire detection and fire alarm systems installed in buildings

3. Manufacturer:

   The Firebeam Company Limited
   Unit 8 Thames Industrial Estate
   High Street South, Dunstable
   Bedfordshire, LU6 3HL

4. Authorised representative:

   EU Authorised Representative
   Name : Jean-Francois DUHAMEL
   Company : Finsecur SA
   Address : 62, Ernest Renan, 92000 Nanterre, France

5. System/s of AVCP:

   System 1

6. Harmonised standard:

   EN54-12:2015

   Notified body/ies::

CE 0786 **21** **Product certification body No: 0786 VdS Schadenverhütung GmbH performed type testing and the initial inspection of the manufacturing plant and of the factory production control with continuous surveillance assessment and approval of the factory production control under system 1 and issued the Certificate of constancy of performance 0786-CPR-21735**

UK CA 0843 **23** **UL International (UK) Ltd**
Unit 1-3 Horizon
Kingsland Business Park
Basingstoke
Hampshire
RG24 8AH
Approved body number 0843
Certificate number 0843-CPR-1131

7. European Assessment Document:

   Not applicable, see item 6

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W. www.thefirebeam.com

Registered in England No. 04663703

8. Declared performance/s:

Harmonised technical specification Essential Characteristics	Performance	EN 54-12:2015 Clause
Operational reliability		
- Individual alarm indication	Red LED	4.2.1
- Connection of ancillary devices	Correct operation	4.2.2
- Manufacturer's adjustments	Special means required	4.2.3
- On-site adjustment of response value	Special means required	4.2.4
- Protection against ingress of foreign bodies	Protected (> 1.3mm)	4.2.5
- Monitoring of detachable detectors and connections	Fault signal released	4.2.6
- Requirements for software-controlled detectors	Documentation, design and storage correct	4.2.7
Nominal activation conditions / sensitivity		
- Reproducibility	C_{min}>=0.4dB C_{max}/C_{rep}<=1.33; C_{rep}/C_{min}<=1.5	4.3.1
- Repeatability	Correct operation C_{min}>=0.4dB; C_{max}/C_{min}<=1.6	4.3.2
- Tolerance to beam misalignment	Correct operation Maximum angle >0.4°	4.3.3
- Rapid changes in attenuation	Correct operation	4.3.4
- Response to slowly developing fires	Correct operation	4.3.5
- Optical path length dependence	C_{min}>=0.4dB; C_{max}/C_{min}<=1.6	4.3.6
- Stray light	Correct operation C_{min}>=0.4dB; C_{max}/C_{min}<=1.6	4.3.7
Tolerance to supply voltage		
- Variation in supply parameters	C_{min}>=0.4dB; C_{max}/C_{min}<=1.6	4.4
Performance under fire conditions		
- Fire sensitivity	m_a<0.7 dB m^{-1}	4.5
Durability of nominal activation conditions / sensitivity, temperature resistance		
- Dry heat (operational)	Correct operation C_{min}>=0.4dB; C_{max}/C_{min}<=1.6	4.6.1.1
- Cold (operational)	Correct operation C_{min}>=0.4dB; C_{max}/C_{min}<=1.6	4.6.1.2
Durability of nominal activation conditions / sensitivity, humidity resistance		
- Damp heat, steady state (operational)	Correct operation C_{min}>=0.4dB; C_{max}/C_{min}<=1.6	4.6.2.1
- Damp heat, steady state (endurance)	C_{min}>=0.4dB; C_{max}/C_{min}<=1.6	4.6.2.2
Durability of nominal activation conditions / sensitivity, vibration resistance		
- Vibration, (endurance)	C_{min}>=0.4dB; C_{max}/C_{min}<=1.6	4.6.3.1
- Impact (operational)	Correct operation C_{min}>=0.4dB; C_{max}/C_{min}<=1.6	4.6.3.2
Durability of nominal activation conditions / sensitivity, electrical stability		
- Electromagnetic compatibility (EMC), Immunity tests (operational)	Correct operation C_{min}>=0.4dB; C_{max}/C_{min}<=1.6	4.6.4
Durability of operational reliability, Corrosion resistance		
- Sulphur dioxide (SO2) corrosion (endurance)	C_{min}>=0.4dB; C_{max}/C_{min}<=1.6	4.6.5

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The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011 and amended (for UK) by Construction Products (Amendment etc.) (EU Exit) Regulations 2019 Construction Products (Amendment etc.) (EU Exit) Regulations 2020, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Cliff Key

Managing Director

Dunstable UK – 1st January 2023

The Firebeam Company Ltd.
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Date:- 12.1.23

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