

## **DECLARATION OF PERFORMANCE**

According to Construction Products Regulation EU N° 305/2011

**No. DOP-F4372**



1. Unique identification code of the product-type:

**Fireray Hub Reflective**

2. Intended use/es:

**Fire detection and fire alarm systems**

3. Manufacturer:

**FFE Ltd, 9 Hunting Gate, Hitchin, Hertfordshire, SG4 0TJ, United Kingdom**

4. Authorised representative:

**FFE B.V., J. Keplerweg 10S, 2408 AC, Alphen aan den Rijn, Netherlands**

Note: FFE B.V. has, by issue of written mandate, been authorised by FFE Ltd to act as an Importer for this product, and to carry out the duties required of an Importer within the European Union.

5. System/s of AVCP:

**System 1**

6. Harmonised standard:

**EN 54-12: 2015**

Notified body/ies:

**BRE Global Assurance (Ireland) Limited (Notified Body No. 2831)**

Certificate No:

**2831-CPR-F4372**

7. Declared performance/s:

Essential Characteristics	Performance	Harmonised Technical Specification
<b>Operational reliability</b> Individual alarm indication Connection of ancillary devices Manufacturers' adjustments On-site adjustment of response value Protection against the ingress of foreign bodies Monitoring of detachable detectors and connections Software controlled line detector using an optical beam	Integral red visible indicator Complies Complies Complies Sphere of diameter 1.3mm cannot enter optics Correct operation Complies	EN 54-12
<b>Nominal activation conditions/Sensitivity</b> Reproducibility	$C_{min} \geq 0.4\text{dB}$ , $C_{max} / C_{rep} \leq 1.33$ , $C_{rep} / C_{min} \leq 1.5$	

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Essential Characteristics	Performance	Harmonised Technical Specification
Repeatability	No fault or alarm signals for 3 days, $C_{min} \geq 0.4\text{dB}$ , $C_{max} / C_{min} \leq 1.6$	
Tolerance to beam misalignment	Correct operation; maximum angle of misalignment is 0.5°.	
Rapid changes in attenuation	Correct operation	
Response to slowly developing fires	Correct operation	
Optical path length dependence	$C_{min} \geq 0.4\text{dB}$ , $C_{max} / C_{min} \leq 1.6$	
Stray light	No fault or alarm signals during conditioning, $C_{min} \geq 0.4\text{dB}$ , $C_{max} / C_{min} \leq 1.6$	
<b>Tolerance to supply voltage</b>		
Variation in supply parameters	$C_{min} \geq 0.4\text{dB}$ , $C_{max} / C_{min} \leq 1.6$	
<b>Performance parameters under fire conditions</b>		
Fire sensitivity	Alarm signal in each test fire, with $m_a < 0.7 \text{ dB m}^{-1}$	
<b>Durability of nominal activation conditions / sensitivity</b>		
Temperature resistance Dry heat (operational)	No fault or alarm signals during conditioning, alarm signal within 30s with 6dB filter in front of receiver, $C_{min} \geq 0.4\text{dB}$ , $C_{max} / C_{min} \leq 1.6$	
Cold (operational)	No fault or alarm signals during conditioning, alarm signal within 30s with 6dB filter in front of receiver, $C_{min} \geq 0.4\text{dB}$ , $C_{max} / C_{min} \leq 1.6$	
Humidity resistance Damp heat, steady state (operational)	No fault or alarm signals during conditioning, $C_{min} \geq 0.4\text{dB}$ , $C_{max} / C_{min} \leq 1.6$	
Damp heat, steady state (endurance)	$C_{min} \geq 0.4\text{dB}$ , $C_{max} / C_{min} \leq 1.6$	
Vibration resistance Vibration (endurance)	$C_{min} \geq 0.4\text{dB}$ , $C_{max} / C_{min} \leq 1.6$	
Impact (operational)	No fault or alarm signals during conditioning except when the beam is obstructed by the impact apparatus, $C_{min} \geq 0.4\text{dB}$ , $C_{max} / C_{min} \leq 1.6$	
Electrical stability EMC immunity (operational)	No false operation during conditioning, $C_{min} \geq 0.4\text{dB}$ , $C_{max} / C_{min} \leq 1.6$	
Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance)	$C_{min} \geq 0.4\text{dB}$ , $C_{max} / C_{min} \leq 1.6$	

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The performance of the product/s 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, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

A handwritten signature in black ink, appearing to read "Steve Revill".

Steve Revill  
Technical Director  
Hitchin

8th December 2023

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