

DECLARATION OF PERFORMANCE According to Construction Products Regulation EU N° 305/2011	
DoP Ref: GLT-245-DoP-2	
1. Unique Product identification code:	47-081
2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):	ZT-BEAM/XTRA, Zeta-Beam Xtra. Self-aligning optical beam smoke detector
3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:	Smoke detector – Line detector using an optical light beam, For use in fire detection and alarm systems within buildings.
4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):	The Fire Beam Company Limited Unit 8 Thames Industrial Estate High Street South Dunstable Bedfordshire LU6 3HLZ
5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):	Zeta Alarms Limited 72-78 Morfa Road Swansea SA1 2EN UK
6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:	System 1
7. In case of the declaration of performance concerning a construction product covered by the harmonized standard:	EN45-12:2015 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-21041
8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:	Not applicable, see item 7

9. Declared performance:

All requirements including all Essential Characteristics and the corresponding performances for the intended use or uses indicated in 3. have been determined as described in the hEN mentioned in the following table.

Essential characteristics	Performance	Harmonized Technical Specification
		EN54-12: 2015
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	Docs, design and storage correct	4.2.7
Nominal activation conditions / sensitivity		
-Reproducibility	Cmin>=0.4d8 Cmax/C reo<=1 . 33 ; C rep/Cm;n<=1.5	4.3.1
-Repeatability	Cmin>= 0.4d8 ; Cmax/Cmin<=1 .6	4.3.2
-Tolerance to beam misalignment	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	Cmin>= 0.4d 8 ; Cmax/Cm1n<=1.6	4.3.6
-Stray light	Cmin>= 0.4d8 ; Cmax/Cm in<= 1.6	4.3.7
Tolerance to supply voltage		
-Variation in supply parameters	Cmin>=0.4d8 ; C max/C min<=1 .6	4.4
Performance under fire conditions		
-Fire sensitivity	ma<0 .7 dB m ⁻¹	4.5
Durability of nominal activation conditions / sensitivity, temperature resistance		
-Dry heat (operational)	Cm ; n>=0.4d 8 ; Cmax/Cm in<=1.6	4.6.1.1
-Cold (operational)	Cmin>=0.4d 8 ; Cmax/Cmin<=1.6	4.6.1.2
Durability of nominal activation conditions / sensitivity, humidity resistance		
-Damp heat, steady state (operational)	Cm in>=0.4d8 ; Cmax/Cmin<=1.6	4.6.2.1
-Damp heat, steady state(endurance)	Cmin>=0.4d8 ; Cmax/Cmin<=1.6	4.6.2.2
Durability of nominal activation conditions/ sensitivity, vibration resistance		
-Vibration, (endurance)	Cmin>=0.4d8 ; Cmax/C min<=1 .6	4 .6.3 .1
-Impact (operational)	Cmm>=0 .4d8 ; C max/ Cmi n<=1.6	4.6.3.2
Durability of nominal activation conditions/ sensitivity, electrical stability		
-Electromagnetic compatibility (EMC), Immunity tests (operational)	Cmin>=0.4d8 ; Cmax/Cmin<=1.6	4.6.4
Durability of operational reliability, Corrosion resistance		
-Sulphur dioxide (SO2) corrosion (endurance)	Cmin>=0.4d8 ; Cmax/Cm in<=1 .6	4.6.5

10. The performance of the product identified in 1. and 2. is in conformity with the declared performance in 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in 4.

Signed for and on behalf of Zeta Alarms Limited by:

Name: N.R. P. Jones

Signature:



Position: Technical Manager

Place of issue: Swansea

Date of issue: 10th October 2019