

DECLARATION OF PERFORMANCE
(Regulation UE nr.305/2011 – annexe III)
Nr. 043_TFMIID-120

①	Unique identification code of the product-type:	TFMIID-120
②	Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):	See label (serial number)
③	Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:	Fire detection and alarm systems installed in buildings
④	Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):	Tecnoalarm s.r.l. - Via Ciriè 38 10099 SAN MAURO (TO) - ITALY
⑤	Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):	N.A.
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 a harmonized standard: EVPU - the notified product certification body - shall issue the certificate of constancy of performance of the product on the basis of: (i) determination of the product-type on the basis of type testing (including sampling), type calculation, tabulated values or descriptive documentation of the product; (ii) initial inspection of the manufacturing plant and of factory production control; (iii) continuous surveillance, assessment and evaluation of factory production control;	EVPU
⑧	DECLARED PERFORMANCE	
	Essential characteristic	Performance
	Operational reliability: Individual alarm indication Connection of ancillary devices Manufacturer's 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 Does not prevent correct operation Special means required Special means required, setting clearly marked Sphere of diameter 1,3 mm cannot enter optics Fault signal given Documentation available, modular structure, invalid data not permitted, program deadlock avoided site specific data in non-volatile memory with two-week retention
	Nominal activation conditions/Sensitivity: Reproducibility Repeatability Tolerance to beam misalignment Rapid changes in attenuation Response to slowly developing fires. Optical path length dependence Stray light.	$C_{min} \geq 0,4\text{dB}$, $C_{max}/C_{rep} \leq 1,33$, $C_{rep}/C_{max} \leq 1,5$ No fault or alarm signals for 3 days, $C_{min} \geq 0,4\text{dB}$, $C_{max}/C_{min} \leq 1,6$ Maximum angle of misalignment is 0,4 degrees, no fault or alarm signal within 0,4 degrees, alarm at 0,4 degrees within 30 s with 6dB filter Alarm signal within 30 s with 6dB filter in front of receiver, fault signal within 60 s with 12dB filter in front of receiver. Alarm signal not cancelled by fault. Drift compensation limited so that for fires developing faster than C/4 per hour the response value does not increase by more than $1,6 \times C$, where C is the initial response value. Compensation range limited. Alarm signal not cancelled by fault. $C_{min} \geq 0,4\text{dB}$, $C_{max}/C_{min} \leq 1,6$ No fault or alarm signals during conditioning. $C_{min} \geq 0,4\text{dB}$, $C_{max}/C_{min} \geq 1,6$
	Tolerance to supply voltage: Variation in supply parameters	$C_{min} \geq 0,4\text{ dB}$, $C_{max}/C_{min} \leq 1,6$
	Performance parameters under fire conditions: Fire sensitivity	Alarm signal in each test fire, with $\max < 0,7\text{ dB m}^{-1}$



Durability of nominal activation conditions/sensitivity: Temperature resistance Dry heat (operational) Cold (operational) Humidity resistance Damp heat, steady-state (operational) Damp heat, steady-state (endurance) Vibration resistance Vibration (endurance) Impact (operational) Electrical Stability EMC immunity (operational) Sulfur dioxide (SO ₂) corrosion (endurance)	No fault or alarm signals during conditioning, alarm signal within 30s with 6dB filter in front of receiver, $C_{min} \geq 0,4 \text{ dB}$, $C_{max}/C_{min} \leq 1,6$ No fault or alarm signals during conditioning, alarm signal within 30s with 6dB filter in front of receiver, $C_{min} \geq 0,4 \text{ dB}$, $C_{max}/C_{min} \leq 1,6$ No fault or alarm signals during conditioning, $C_{min} \geq 0,4 \text{ dB}$, $C_{max}/C_{min} \leq 1,6$ $C_{min} \geq 0,4 \text{ dB}$, $C_{max}/C_{min} \leq 1,6$ $C_{min} \geq 0,4 \text{ dB}$, $C_{max}/C_{min} \leq 1,6$ No fault or alarm signals during conditioning apart from when the beam is obstructed by the apparatus, $C_{min} \geq 0,4 \text{ dB}$, $C_{max}/C_{min} \leq 1,6$ No false operation during conditioning, $C_{min} \geq 0,4 \text{ dB}$, $C_{max}/C_{min} \leq 1,6$ $C_{min} \geq 0,4 \text{ dB}$, $C_{max}/C_{min} \leq 1,6$	EN 54-12
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The performance of the product identified in point 1 and 2 is in conformity with the declared performance in point 8. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

DECLARED PERFORMANCE

Essential characteristics	Declared Performance	Harmonized standard EN 54-17
Performance under fire conditions	Pass	Art. 5.2
Operational reliability	Pass	Art. 4
Durability of operational reliability; temperature resistance	Pass	Art. 5.4-5.5
Durability of operational reliability; vibration resistance	Pass	Art. 5.9 to 5.12
Durability of operational reliability; humidity resistance	Pass	Art. 5.6-5.7
Durability of operational reliability; corrosion resistance	Pass	Art. 5.8
Durability of operational reliability; electrical stability	Pass	Art. 5.3-5.13

The performance of the product identified in 1. and 2. is in conformity with the declared performance in 8.
This declaration of performance is issued under the sole responsibility of the manufacturer identified in 4.

Signed for and on behalf of the manufacturer by: **Tecnoalarm s.r.l.**

Mr. Giovanni NEGRO - Management

San Mauro Torinese, li February, 24, 2022

Signature

