Tecnofire
Strada del Cascinotto 139/54
10156 TORINO (TO) ITALY

DECLARATION OF PERFORMANCE

(Art. 7 EU 305/2011 amended by Delegated Regulation (EU) 574/2014)
Nr. 046_TFDA-TR1

1	Unique identification code of the product-type:	**TFDA-TR1**
2	Type, batch or serial number or any other element allowing identification of the construction product as required under 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:	**Point heat detector for use in fire detection and fire alarm systems installed in and around buildings.**
4	Name, registred trade name or registred trade mark and contact address of the manufacturer as required under 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 CPR, Annexe V:	**System 1**
7	In case of the declaration of performance concerning a construction product covered by a harmonized standard: The certificate of constancy of performance issued by the notified product certification body **1293** on the basis of determination of the product type on the basis of type testing (including sampling),type calculation, tabulated values or descriptive documentation of the product; initial inspection of the manufacturing plant and of factory production control and continuous surveillance, assessment and evaluation of factory production control.	
8	**DECLARED PERFORMANCE**	

Essential characteristics	**Performance**	**Harmonized technical specification**
Operational reliability:		**EN 54-5:2017 + A1:2018**
Position of heat sensitive element	≥ 15 mm	
Individual alarm indication	Integral red indicator provided for declared categories or means for indicating alarm for certain categories at distance of 6m.	
Connection of ancillary devices	No false operations	
Monitoring of detachable point heat detectors	Fault signal given	
Manufacturing adjustments	Special means required	
On site adjustment of response behaviour	Special means required, setting clearly marked	
Software controlled point heat detector	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:		
Directional dependence	Response time (1 min 0s to 4 min 20s) at eight angles for catgory A1 and 2 min 0s to 5 min 30s at eight angles for other categories	
Static respons temperature	Min and max temp for the specified category.	
Respons time from typical application temperature	Lower and Upper response time limits for each rate of rise for the specific category.	
Response time from 25°C	Response time <7 min 13 s at 3K/min and >1 min 0s at 20K/min	
Respons times from high ambient temperature	No false operation, Lower and Upper response time at 3K/min and 20K/min for each of the specified category	
Reproducibility	Lower and Upper response time at 3K/min and 20K/min for each of the specified category	
Response delay (response time):		
Additional test for suffix S point heat detector Additional test for suffix R point heat detector	No false operation, > Lover response time for each rate of rise. Lower and Upper response time at 3K/min, 10K/min and 20K/min for each of the specified category	
Tolerance to supply voltage:		
Variation in supply parameters	Lower and Upper response time at 3K/min and 20K/min for each of the specified category	

Durability of Nominal activation condition/Sensitivity:		**Harmonized technical specification**
Temperature resistance: Cold (operational) Dry heat (endurance)	Resettable, No false operation, at 3K/min; response time >7 min: 13s and Δresponse time < 2min:40s at 20K/min; response time >30s for A1 and > 1min for other categories and Δtime <30s.	**EN 54-5:2017 + A1:2018**
Humidity resistance: Damp heat, cyclic (operational) Damp heat, steady-state (endurance)	Resettable, No false operation, at 3K/min; response time >7 min: 13s and Δresponse time < 2min:40s at 20K/min; response time >30s for A1 and > 1min for other categories and Δtime <30s.	
Corrosion resistance: Sulphur dioxide (SO2) Corrosion (endurance)	Resettable, No false operation, at 3K/min; response time >7 min: 13s and Δresponse time < 2min:40s at 20K/min; response time >30s for A1 and > 1min for other categories and Δtime <30s.	
Vibration resistance: Shock (operational) Impact (operational) Vibration, sinusoidal (operational) Vibration, sinusoidal (endurance)	Resettable, No false operation, at 3K/min; response time >7 min: 13s and Δresponse time < 2min:40s at 20K/min; response time >30s for A1 and > 1min for other categories and Δtime <30s.	
Electrical stability: EMC immunity (operational)	Resettable, No false operation, at 3K/min; response time >7 min: 13s and Δresponse time < 2min:40s at 20K/min; response time >30s for A1 and > 1min for other categories and Δtime <30s.	

DECLARED PERFORMANCE

Essential characteristics	**Declared Performance**	**Harmonized standard EN 54-17:2005**
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

9	**The performance of the product identified in points 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.**

Signed for and on behalf of the manufacturer by:

Mr. Giovanni NEGRO - Management

San Mauro Torinese, September, 30, 2022