Thermocable Flexible Elements Ltd
Pasture Lane Clayton Bradford West Yorkshire
BD14 6LU England United Kingdom
Tel: +44(0)1274 882359 • Fax: +44(0)1274 882229
E-mail: info@thermocable.com

DECLARATION OF PERFORMANCE

(in accordance with the Construction Products Regulation EU 305/2011)

No. PRENANA-03052101

1 . Unique identification code of the product type:

ProReact EN Analogue Composite Control Unit (A1389)
ProReact EN Analogue PVC Coated Sensor Cable (F3050)
ProReact EN Analogue Nylon Coated Sensor Cable (F3051)
ProReact EN Analogue PVC and Stainless Steel braided Sensor Cable (F3052)
ProReact EN Analogue End-of-line Unit (A1470)
ProReact EN Analogue Junction Box (A1471)

Description:

Resettable line-type heat detector

2. Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4) of the CPR:

See product label and serial number printed on product

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Fire and/or overheat detection installed in and around buildings, civil engineering works and other equivalent uses.

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5):

Thermocable Flexible Elements Ltd
Pasture Lane, Clayton, Bradford
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5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):

Thermocable (Flexible Elements) IRE Ltd, Ground Floor, 71 Lower Baggot Street, Dublin, D02 P593, Ireland

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:

System 1

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

EN54-22:2015+A1:2020 (approved by CEN 19 Mar 2015. A1 approved by CEN 16 Oct 2019)
VdS Schadenverhütung GmbH performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control and issued the certificate of conformity of the factory production control (VdS Certificate No. G220006)

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8.Declared Performance:

Essential characteristics	Performance	Technical Specification
Nominal activation conditions / sensitivity		EN54-22:2015
Individual alarm indication	Red LED	
Signalling	Power; alarm and fault status signalled	
Repeatability	t(3)max : t(3)min ≤ 1,3; t(20)max : t(20)min ≤ 1,6	
Reproducibility	t(3)max : t(3)min ≤ 1,3; t(20)max : t(20)min ≤ 1,6	
Operational reliability		
Connection of ancillary devices (if applicable)	No functional effect	
Manufacturer's adjustments (if applicable)	Special means required	
Requirements for software controlled detectors (if applicable)	Modular structure / invalid data not permitted / program deadlock avoided / site specific data in non-volatile memory with >10 year retention.	
Sensing element fault	Fault signal ≤ 300s, no alarm	
On-site adjustment of response behaviour (if applicable)	Special means required, settings clearly marked	
Maximum ambient temperature test (sensing element)	No alarm or fault during conditioning. Afterwards alarm given	
Tolerance to supply voltage		EN54-22:2015
Variation in supply parameters	t(3)max : t(3)min ≤ 1,3	
Low voltage fault	Fault signal ≤ 100s	
Performance parameters under fire conditions		EN54-22:2015
Fire sensitivity for room protection application	Alarm at assigned response classes (A1I, A2I)	
Static response temperature test	Alarm at assigned response class (BI)	
Durability of Nominal activation conditions/sensitivity		EN54-22:2015
Temperature resistance:		
Dry heat (operational) sensor control unit	t(3)max : t(3)min ≤ 1,3; no false operation during 16 h at 55 °C (Group II)	
Dry heat (endurance) sensing element	t(3)max : t(3)min ≤ 1,3; no false operation after 21 d at high temperature (Group II, III; response Class A to B)	
Cold (operational) sensing element	t(3)max : t(3)min ≤ 1,3; no false operation during 16 h at -10 °C (Group II)	
Cold (operational) for sensor control unit	t(3)max : t(3)min ≤ 1,3; no false operation during 16 h at -10 °C (Group II)	

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Humidity resistance		
Damp heat, steady state (endurance) for sensor control unit and sensing element	t(3)max : t(3)min ≤ 1,3; no false operation after 21 d at 40 °C and 93 % RH	
Damp heat, cyclic (operational) for sensing element	t(3)max : t(3)min ≤ 1,3; no false operation during 2 cycles at 40 °C and 93 % RH (Group II)	
Damp heat, cyclic (operational) for sensor control unit (if applicable)	t(3)max : t(3)min ≤ 1,3; no false operation during 2 cycles at 40 °C and 93 % RH (Group II)	EN54-22:2015
Damp heat, steady state (operational) for sensor control unit (if applicable)	Not applicable to Group II	
Damp heat, cyclic (endurance) for sensor control unit and sensing element (if applicable)	Not applicable to Group II	
Shock and vibration resistance		
Shock (operational) for sensor control unit (if applicable)	t(3)max : t(3)min ≤ 1,3; no false operation during 18 6 ms shock pulses of 1000 – (200 x M) m s-2 (Group II and III)	
Impact (operational) for sensor control unit	t(3)max : t(3)min ≤ 1,3; no false operation after 3 0,5 J impacts	
Impact (operational) for sensing element	t(3)max : t(3)min ≤ 1,3; no false operation during impact	
Vibration, sinusoidal (operational) for sensor control unit	t(3)max : t(3)min ≤ 1,3; no false operation during vibration for a sweep between 10 and 150 Hz at 5 m s-2 (Group II and III)	
Vibration, sinusoidal (operational) for sensing element	t(3)max : t(3)min ≤ 1,3; no false operation during vibration for a sweep between 10 and150 Hz at 5 m s-2 (Group II and III)	
Vibration, sinusoidal (endurance) for sensor control unit	t(3)max : t(3)min ≤ 1,3; no false operation after vibration for 20 sweeps between 10 and 150 Hz at 10 m s-2 (Group II and III)	
Vibration, sinusoidal (endurance) for sensing element	t(3)max : t(3)min ≤ 1,3; no false operation after vibration for 20 sweeps between 10 and 150 Hz at 10 m s-2 (Group II and III)	EN54-22:2015
Corrosion resistance		
Sulphur dioxide (SO_2) corrosion (endurance) for sensing element	t(3)max : t(3)min ≤ 1,3; no false operation after 21 d at 25 °C, 93 % RH and 25 µl/l SO2 content (Group II and III)	
Sulphur dioxide (SO_2) corrosion (endurance) for sensor control unit (if applicable)	t(3)max : t(3)min ≤ 1,3; no false operation after 21 d at 25 °C, 93 % RH and 25 µl/l SO2 content (Group II and III)	
Electrical stability		
EMC, immunity	t(3)max : t(3)min ≤ 1,3; no false operation when applying electrostatic discharge, radiated electromagnetic fields, conducted disturbances induced by electromagnetic fields, fast transient burst and slow high energy voltage surges	

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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:

Thomas Robst – Technical Director

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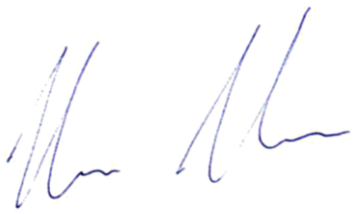
(name and function)

Thermocable Flexible Elements Ltd
Bradford, United Kingdom
on 3rd May 2021



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(placed and date of issue) **(signature)**