



CENTRUM NAUKOWO-BADAWCZE OCHRONY PRZECIWPOŻAROWEJ

im. Józefa Tuliszkowskiego - PAŃSTWOWY INSTYTUT BADAWCZY

Jednostka Certyfikująca / Certification Department

ul. Nadwiślańska 213, 05-420 Józefów



## NATIONAL CERTIFICATE OF CONSTANCY OF PERFORMANCE No. 063-UWB-0397

In accordance with the Regulation of the Ministry of Infrastructure and Construction of 17 November 2016 on how to declare the performance of construction products and how to label them with a construction mark (Polish Journal of Laws: Dz. U. z 2016 r. poz. 1966), this certificate relates to a construction product:

### Fire detector – for use in construction objects – Resettable line-type heat detector type ProReact EN Analogue

<for levels and classes of performance as well as the description and conditions for using the construction product, see the next page(s) of the certificate>

covered by the Polish Standard for the product:

### PN-EN 54-22+A1:2020-07 Fire detection and fire alarm systems – Part 22: Resettable line-type heat detectors

placed on the market under the manufacturer's name or trademark:

**Thermocable Flexible Elements Ltd**  
**Pasture Lane**  
**BD14 6LU Bradford, West Yorkshire, Great Britain**

and manufactured in a manufacturing plant:

**Thermocable Flexible Elements Ltd**  
**Pasture Lane**  
**BD14 6LU Bradford, West Yorkshire, Great Britain**

This certificate confirms that all provisions, resulting from 1 national system, related to the assessment and verification of constancy of performance, in relation to the declared performance of the product related to its intended use, specified in this certificate, are applied and that:

### The manufacturer has implemented the system of factory production control to ensure that this performance is maintained.

This certificate, issued for the first time on 31.01.2022, remains in force until 30.01.2032, provided that the Manufacturer complies with the requirements contained in the agreement No. 8/DC/B/2022 of 31.01.2022 and until the applied national technical assessment of the product, methods of assessment and verification of constancy of performance, the construction product itself and the conditions for its production will not change, and that it will not be suspended or withdrawn by an accredited product certification body.

Certificate issue number: 01

Issue date: 31.01.2022

The validity of this certificate may be confirmed on the Institute's website at [www.cnbop.pl](http://www.cnbop.pl) or by telephone: 22 769 33 47

MANAGER  
OF THE CERTIFICATION DEPARTMENT

pp. Deputy Manager of the Certification Department  
Ewa Sobór, M.Sc. Eng.



DIRECTOR OF CNBOP-PIB

st. bryg. Paweł Janik, PhD Eng.



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| Levels and classes of performance as well as the description and conditions for using the construction product: |                                   |                |
|---|-----------------------------------|----------------|
| Performance   | Chapter<br>PN-EN 54-22+A1:2020-07 | Level, class   |
| General   | 4.1                               | fulfil         |
| Individual alarm indication   | 4.2.1                             | fulfil         |
| Signalling  | 4.2.2                             | fulfil         |
| Repeatability   | 4.2.3                             | fulfil         |
| Reproducibility   | 4.2.4                             | fulfil         |
| Connection of ancillary devices   | 4.3.1                             | fulfil         |
| Manufacturer's adjustments  | 4.3.2                             | fulfil         |
| Requirements for software controlled detectors  | 4.3.3                             | fulfil         |
| Sensing element fault   | 4.3.4                             | fulfil         |
| On-site adjustment of response behaviour  | 4.3.5                             | fulfil         |
| Maximum ambient temperature test (sensing element)  | 4.3.6                             | fulfil         |
| Variation in supply parameters  | 4.4.1                             | fulfil         |
| Low voltage fault   | 4.4.2                             | fulfil         |
| Fire sensitivity for room protection application  | 4.5.1                             | fulfil         |
| Static response temperature test  | 4.5.2                             | fulfil         |
| Dry heat (operational) sensor control unit  | 4.6.1.1                           | fulfil         |
| Dry heat (endurance) for sensor control unit and sensing element  | 4.6.1.2                           | not applicable |

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This document was originally translated from Polish to English on 17 February 2022  
In case of conflict between the national certificate of constancy of performance and this translation, the Polish document shall be binding



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| Levels and classes of performance as well as the description and conditions for using the construction product: |                                   |                |
|---|-----------------------------------|----------------|
| Performance   | Chapter<br>PN-EN 54-22+A1:2020-07 | Level, class   |
| Cold (operational) for sensing element  | 4 6 1 3                           | fulfil         |
| Cold (operational) for sensor control unit  | 4 6 1 4                           | fulfil         |
| Damp heat, steady state (endurance) for sensor control unit and sensing element                                 | 4 6 2 1                           | fulfil         |
| Damp heat, cyclic (operational) for sensing element   | 4 6 2 2                           | fulfil         |
| Damp heat, cyclic (operational) for sensor control unit   | 4 6 2 3                           | fulfil         |
| Damp heat, steady state (operational) for sensor control unit   | 4 6 2 4                           | not applicable |
| Damp heat, cyclic (endurance) for sensor control unit and sensing element                                       | 4 6 2 5                           | not applicable |
| Shock (operational) for sensor control unit   | 4 6 3 1                           | fulfil         |
| Impact (operational) for sensor control unit  | 4 6 3 2                           | fulfil         |
| Impact (operational) for sensing element  | 4 6 3 3                           | fulfil         |
| Vibration, sinusoidal (operational) for sensor control unit   | 4 6 3 4                           | fulfil         |
| Vibration, sinusoidal (operational) for sensing element   | 4 6 3 5                           | fulfil         |
| Vibration, sinusoidal (endurance) for sensor control unit   | 4 6 3 6                           | fulfil         |
| Vibration, sinusoidal (endurance) for sensing element   | 4 6 3 7                           | fulfil         |
| Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance) for sensing element                                    | 4 6 4 1                           | fulfil         |
| Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance) for sensor control unit                                | 4 6 4 2                           | fulfil         |
| Electromagnetic compatibility (EMC), immunity tests (operational)   | 4 6 5 1                           | fulfil         |

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| Levels and classes of performance as well as the description and conditions for using the construction product: |   |
|---|---|
| <b>Description of the product</b>   |   |
| Type:   | ProReact EN Analogue  |
| Maximum length of the detection cable:  | 500 m   |
| Enclosure material:   | plastic material – ProReact EN Analogue Composite control module<br>Control Unit (PACC)<br>metal – ProReact EN Analogue End-of-line Unit                  |
| Dimensions (width x height x length):   | 182 x 180 x 90 [mm] – ProReact EN Analogue Composite control module<br>Control Unit (PACC);<br>100 x 60 x 35 [mm] – ProReact EN Analogue End-of-line Unit |
| Mass:   | ---   |
| Working temperature range:  | - 10°C ÷ + 55°C   |
| Environmental group:  | II  |
| Working voltage range:  | 20 ÷ 30 V DC  |
| Current consumption in the quiescent mode:  | 31 mA for 20 V DC<br>20 mA for 30 V DC  |
| Current consumption during fire alarm:  | 85 mA for 20 V DC<br>59 mA for 30 V DC  |
| Current consumption when fault is signalled   | ---   |
| Detection cable type:   | sensor cable: ProReact EN Analogue PVC (F3050),<br>ProReact EN Analogue Nylon (F3051), ProReact EN Analogue PVC<br>and Stainless Steel (F3052)            |
| Laser power (class):  | ---   |
| Measurement line topology:  | ---   |
| Measurement resolution:   | 50 ÷ 500 m – A1I, A2I heat response class<br>30 ÷ 500 m – BI heat response class  |
| Heat response class (room protection application):  | A1I, A2I  |
| Heat response class (local protection application):   | BI  |
| Software version:   | 0419001   |

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