



AC 063

CENTRUM NAUKOWO-BADAWCZE OCHRONY PRZECIWPOŻAROWEJ

im. Józefa Tuliszowskiego - PAŃSTWOWY INSTYTUT BADAWCZY

Jednostka Certyfikująca / Certification Department

ul. Nadwiślańska 213, 05-420 Józefów



NATIONAL CERTIFICATE OF CONSTANCY OF PERFORMANCE No. 063-UWB-0074

In accordance with the regulation of the Minister of Infrastructure and Construction of 17 November 2016 on the manner of declaring performance of construction products and marking them with the construction mark (Journal of Laws, item 1966), this certificate applies to a construction product:

**Fire detector – to be used in building facilities –
Resettable line-type heat detector type d-LIST**

<levels and classes of performance, description and conditions for use of the construction product, see the following pages of the certificate>

covered by the Polish Standard for the product:

**PN-EN 54-22:2015-07 Fire Detection And Fire Alarm Systems
Part 22: Resettable Line-Type Heat Detectors**

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

Listec GmbH

Am Sandberg 34

84424 Isen, Federal Republic of Germany

represented by an authorized representative:

Schrack Seconet Polska Sp. z o.o.

ul. Domaniewska 44a

02-672 Warszawa, Republic of Poland

and manufactured in the manufacturing plant:

Listec GmbH

Am Sandberg 34

84424 Isen, Federal Republic of Germany

This certificate confirms that all provisions resulting from national system 1 regarding the assessment and verification of constancy of performance in relation to the declared performance of the product related to its measured application defined in this certificate are applicable and that:

**the Manufacturer has implemented a factory production control system
to ensure that these properties are maintained.**

This certificate was issued for the first time on 22/12/2017 and remains in force until 21 December 2027, provided that the Manufacturer complies with the requirements contained in the agreement No. 74/DC/B/2017 of 22 December 2017, and until the Polish Standard for the product, methods for assessment and verification of constancy of performance, the construction product itself and its manufacturing conditions do not change, and that it will not be suspended or withdrawn by an accredited product certification body.

Certificate issue number: 01

Issue date: 22.12.2017

The validity of this certificate can be confirmed on the Institute's website at www.cnbop.pl or by telephone: 48 22 769 33 45.

**MANAGER
OF THE CERTIFICATION DEPARTMENT**

**In place of
the Deputy Manager of the Certification Department
Michał Chmiel, MSc.**



DIRECTOR OF CNBOP-PIB

bryg. Dariusz Wróblewski, PhD Eng.

This document was originally translated from Polish to English on 6 August 2018.

In case of conflict between the Polish Certificate of Conformity and this translation, the Polish document shall be binding.



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Levels and classes of performance, description and conditions for use of the construction product:		
Performance	Chapter PN-EN 54-22:2015-07	Level, class
General requirements	4.1	fulfills
Individual alarm indication	4.2.1	fulfills
Signalling	4.2.2	fulfills
Repeatability	4.2.3	fulfills
Reproducibility	4.2.4	fulfills
Connection of auxiliary devices	4.3.1	fulfills
Manufacturer's adjustments	4.3.2	fulfills
Requirements for software controlled detectors	4.3.3	fulfills
Sensing element fault	4.3.4	fulfills
On-site adjustment of response behaviour	4.3.5	fulfills
Maximum ambient temperature test (sensing element)	4.3.6	fulfills
Variation in supply parameters	4.4.1	fulfills
Low voltage fault	4.4.2	fulfills
Fire sensitivity for room protection application	4.5.1	fulfills
Static response temperature test	4.5.2	fulfills

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Levels and classes of performance, description and conditions for use of the construction product:		
Performance	Chapter of PN-EN 54-22:2015-07	Level, class
Dry heat (operational) – sensor control unit	4.6.1.1	fulfills
Dry heat (endurance) – sensing element	4.6.1.2	fulfills
Cold (operational) – sensing element	4.6.1.3	fulfills
Cold (operational) – sensor control unit	4.6.1.4	fulfills
Damp heat, steady state (endurance) – sensor control unit and sensing element	4.6.2.1	fulfills
Damp heat, cyclic (operational) – sensing element	4.6.2.2	fulfills
Damp heat, cyclic (operational) – sensor control unit	4.6.2.3	fulfills
Damp heat, steady state (operational) – sensor control unit	4.6.2.4	not applicable
Damp heat, cyclic (endurance) – sensor control unit and sensing element	4.6.2.5	fulfills
Shock (operational) – sensor control unit	4.6.3.1	fulfills
Impact (operational) – sensor control unit	4.6.3.2	fulfills
Impact (operational) – sensing element	4.6.3.3	fulfills
Vibration, sinusoidal (operational) – sensor control unit	4.6.3.4	fulfills
Vibration, sinusoidal (operational) – sensing element	4.6.3.5	fulfills
Vibration, sinusoidal (endurance) – sensor control unit	4.6.3.6	fulfills
Vibration, sinusoidal (endurance) – sensing element	4.6.3.7	fulfills
Sulphur dioxide (SO ₂) corrosion (endurance) – sensing element	4.6.4.1	fulfills
Sulphur dioxide (SO ₂) corrosion (endurance) – sensor control unit	4.6.4.2	fulfills
Electromagnetic immunity	4.6.5.1	fulfills

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Levels and classes of performance, description and conditions for use of the construction product:	
Description of the product	
Type:	d-LIST
Maximum length of the detection wire:	0,25 km
Housing material:	metal – SCU 800-03, SCU 800/16 controller; metal – ESD-A5-EL prismatic external sensor, ESD-A5-RL cylindrical external sensor; plastic – CBO 5-ESD-T, CBO 5-SEC connection module
Dimensions (width x height x length):	260 x 150 x 90 mm – SCU 800-03, SCU 800/16 controller; Ø 8 x 50 mm – ESD-A5-EL prismatic external sensor, ESD-A5-RL cylindrical external sensor; 130 x 130 x 75 mm – CBO 5-ESD-T, CBO 5-SEC connection module
Weight:	1,9 kg
Working temperature range:	- 10°C ÷ + 55°C – sensor control unit - 25°C ÷ + 70°C – sensing element
Environmental group:	II – sensor control unit II lub III – sensing element
Range of work voltages:	21 ÷ 29 V DC
Power consumption in the supervision mode:	80 mA
Power consumption during fire alarm:	100 mA
Power consumption during fault signalling:	100 mA
Type of detection wire:	SEC 15 sensory cable
Topology of the measuring line:	open lines
Measurement resolution:	1, 2, 3, 4, 5 m – standard (other chosen freely depending on the order – at least 0.25 m)
Operating class (room protection application):	A1N, A2N
Operating class (local protection application):	BN
Software version:	V1

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