



NB-CPR 305/2011 EU

Nr. 1415

Product certification body accredited by NAH
under No NAH-6-0057/2019/K.

ÉMI NON-PROFIT LIMITED LIABILITY COMPANY FOR QUALITY
CONTROL AND INNOVATION IN BUILDING
ENGINEERING SERVICES DIRECTORATE
CONFORMITY ASSESSMENT CENTER
CERTIFICATION OFFICE

H-2000 Szentendre, Dózsa György út 26. Postal address: H-2001 Szentendre, Pf : 180.
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EC-CERTIFICATE OF CONSTANCY OF PERFORMANCE

1415-CPR-81-(C-36/2018)

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

HDL-2, HDL-3, HDL-3XL, HDL-5, HDL-6, HDL-6XL, HDL-7 and HDL-7 XL heat- fire detectors

with performance shown in the annex as page 3/3 of this certificate
for **Fire safety** intended use and

produced by

LICO Mechatronika Kft.

2030 Érd, Rába u. 4., Hungary

and produced in the manufacturing plant

LICO Hungária Kft.

2049 Diósd, Balatoni út 4.

This certificate attests that all provisions concerning the assessment and verification of constancy of performance and the performances described in Annex ZA of the standard
EN 54-5:2017+A1:2018 under system (1) are applied and that

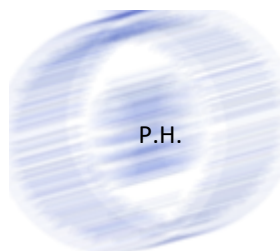
the product fulfils all the prescribed requirements set out above.

This certificate was first issued on 18.10.2018 and will remain valid as long as the test methods and/or factory production control requirements included in the harmonized standard, used to assess the performance of the declared characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly.

This certificate consists of 4 pages!

Issue: 4

Dated at Szentendre, 08.09.2022



P.H.



Ágnes Molnár
Head of Certification Office

EC-CERTIFICATE OF CONSTANCY OF PERFORMANCE

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ANNEX

Product essential characteristics	Performance	EN 54-5:2017 +A1:2018 clause				
Operational reliability						
Position of heat sensitive element	Distance ≥ 15 mm	4.2.1				
Individual alarm indication	red temperature indicating label	4.2.2				
Connection of ancillary devices	Correct operation	4.2.3				
Monitoring of detachable point heat detectors	Correct operation	4.2.4				
Manufacturing adjustments	Special means required	4.2.5				
On-site adjustment of response behaviour	Special means required, change of settings impossible	4.2.6				
Software controlled detector (when provided)	NPD	4.2.7				
Nominal activation conditions / Sensitivity						
Directional dependence	A1 category: 1 min 0 s \leq RT \leq 4 min 20 s B, C, D, G category: 2 min 0 s \leq RT \leq 5 min 30 s	4.3.1				
Static response temperature	A1 category 54°C \leq T \leq 65°C, B category 69°C \leq T \leq 85°C, C category 84°C \leq T \leq 100°C, D category 99°C \leq T \leq 115°C, G category 144°C \leq T \leq 160°C	4.3.2				
Response times from typical application temperature	Rate of rise of temperature	4.3.3				
	K/min		A1 category	B, C, D, G category		
	1		RT min.	RT max.	RT min.	RT max.
	3		min	s	min	s
	5		min	s	min	s
	10		min	s	min	s
	20		min	s	min	s
30	min	s	min	s		
Response time from 25 °C	see 4.3.3	4.3.4				
Response times from high ambient temperature	No alarm or fault indication in connection with conditioning, A1 category: 3 K/min: 1 min 20 s \leq RT \leq 13 min 40 s and 20 K/min: 0 min 12 s \leq RT \leq 2 min 20 s B, C, D, G category: 3 K/min: 1 min 20 s \leq RT \leq 16 min 0 s and 20 K/min: 0 min 12 s \leq RT \leq 3 min 13 s	4.3.5				
Reproducibility	A1 category: 3 K/min: 7 min 13 s \leq RT \leq 13 min 40 s and 20 K/min: 0 min 30 s \leq RT \leq 2 min 20 s B, C, D, G category: 3 K/min: 7 min 13 s \leq RT \leq 16 min 0 s and 20 K/min: 1 min 0 s \leq RT \leq 3 min 13 s	4.3.6				

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Product essential characteristics	Performance	EN 54-5:2017 +A1:2018 clause							
Response delay (response time)									
Additional test for suffix S point heat detectors	A1S, BS, CS, DS, GS category, No alarm or fault indication in connection with conditioning 3 K/min: 9 min 40 s ≤ RT, 5 K/min: 5 min 48 s ≤ RT 10 K/min: 2 min 54 s ≤ RT, 20 K/min: 1 min 27 s ≤ RT 30 K/min: 0 min 58 s ≤ RT	4.4.1							
Additional test for suffix R point heat detectors	Rate of rise of temperature	4.4.2							
			A1R category	BR, CR, DR, GR category					
			RT min.	RT max.	RT min.	RT max.			
	K/min		min	s	min	s	min	s	min
	10	1	0	4	20	2	0	5	30
	20	0	30	2	20	1	0	3	13
	30	0	20	1	40	0	40	2	25
Tolerance to supply voltage									
Variation in supply parameters	A1 category: 3 K/min: 7 min 13 s ≤ RT ≤ 13 min 40 s and 20 K/min: 0 min 30 s ≤ RT ≤ 2 min 20 s B, C, D, G category: 3 K/min: 7 min 13 s ≤ RT ≤ 16 min 0 s and 20 K/min: 1 min 0 s ≤ RT ≤ 3 min 13 s	4.5.1							
Durability of Nominal activation conditions/Sensitivity									
Temperature resistance: Cold (operational)	No alarm or fault indication in connection with conditioning, A1, B, C, D, G category: 3 K/min: 7 min 13 s ≤ RT, ΔRT ≤ 2 min 40 s A1 category: 20 K/min: 0 min 30 s ≤ RT, ΔRT ≤ 30 s B, C, D, G category 20 K/min: 1 min 0 s ≤ RT, ΔRT ≤ 30 s	4.6.1.1							
Dry heat (endurance)	Not applicable	4.6.1.2							
Humidity resistance: Damp heat, cyclic (operational) Damp heat, steady state (endurance)	No alarm or fault indication in connection with conditioning, A1, B, C, D, G category: 3 K/min: 7 min 13 s ≤ RT, ΔRT ≤ 2 min 40 s A1 category: 20 K/min: 0 min 30 s ≤ RT, ΔRT ≤ 30 s B, C, D, G category 20 K/min: 1 min 0 s ≤ RT, ΔRT ≤ 30 s	4.6.2.1 4.6.2.2							
Corrosion resistance: Sulphur dioxide (SO ₂) corrosion (endurance)	No alarm or fault indication in connection with conditioning, A1, B, C, D, G category: 3 K/min: 7 min 13 s ≤ RT, ΔRT ≤ 2 min 40 s A1 category: 20 K/min: 0 min 30 s ≤ RT, ΔRT ≤ 30 s B, C, D, G category 20 K/min: 1 min 0 s ≤ RT, ΔRT ≤ 30 s	4.6.3							
Vibration resistance: Shock (operational) Impact (operational) Vibration, sinusoidal (operational) Vibration, sinusoidal (endurance)	No alarm or fault indication in connection with conditioning, A1, B, C, D, G category: 3 K/min: 7 min 13 s ≤ RT, ΔRT ≤ 2 min 40 s A1 category: 20 K/min: 0 min 30 s ≤ RT, ΔRT ≤ 30 s B, C, D, G category 20 K/min: 1 min 0 s ≤ RT, ΔRT ≤ 30 s	4.6.4.1 4.6.4.2 4.6.4.3 4.6.4.4							
Electrical stability: EMC, immunity (operational)	NPD	4.6.5							

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ANNEX

Technical characteristics of certified products:

Sensor type:	Bimetallic
Sensor housing: 1-4. characters ■ ■ ■ ■ □ - □ □ □ - □ □ □	2712: single thread series 2802: double thread (coupling head) series
Sensor wiring / Contact operation: □ □ □ □ ■ - □ □ □ - □ □ □ 5. character	0: 2-wire, (N/C) 1: 4-wire, (N/O)
Material of sensor body (thread): □ □ □ □ □ - ■ ■ ■ ■ - □ □ □ 6-8. characters	020: stainless steel 022: stainless steel 003, 005: stainless steel 000: brass
Material of sensor housing:	stainless steel
Ingress Protection Marking (IP)	IP66/67

PRODUCT LABELING □ □ □ □ □ - □ □ □ - ■ ■ ■ ■ 9-11. characters	140	160	190	210	225	275	325	360	450
Nominal operating temperature [°C]:	60	71	88	99	107	135	163	182	232
Classification according to standard EN 54-5:	A1	B	C	D	D	G	+	++	+++

Dimensions of junction box:	External length	External width	Height
HDL-2	75 mm	80 mm	57 mm
HDL-3	75 mm	80 mm	57 mm
HDL-3 XL	125 mm	80 mm	57 mm
HDL-5	120 mm	122 mm	80 mm
HDL-6	120 mm	120 mm	116 mm
HDL-6XL	150 mm	150 mm	130 mm
HDL-7	152 mm	102 mm	90 mm
HDL-7 XL	152 mm	152 mm	130 mm