

CERTIFICATE OF CONSTANCY OF PERFORMANCE

1134-CPR-012

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

Optical smoke and heat detector Kilsen KL735A

with the variants and the performances listed in annex of this certificate and for the intended use:
Fire safety

manufactured by or for

Carrier Fire & Security BV
Kelvinstraat 7
6003 DH Weert
Nederland

and produced in the manufacturing plants

Carrier Safety System (Hebei) Co.
Ltd.
N°.80 Changjiang East Road
QETDZ
066004 Qinhuangdao
Hebei
China

This certificate attests that all provisions concerning the assessment and the verification of constancy performance and the performances described in Annex ZA of the standard(s):

EN 54-7:2000/A1:2002/A2:2006
EN 54-5:2000/A1:2002

under system 1 are applied and that

the products fulfil all prescribed requirements set out above.

This certificate was first issued on 2013-09-11 and remains valid as long time as the testing methods and/or for the control of the production in factory included in the harmonized standard, used to evaluate the performances of the declared characteristics, do not change and as neither the product, nor the manufacturing conditions in the plant or the factory production control itself are not modified significantly.

Brussels, 28 juin 2021



Marie Majerus
Certification Manager

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Annex 1 to the CERTIFICATE CONSTANCY OF PERFORMANCE

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Variants of the Kilsen KL735A

Optical smoke and heat detector
Variants: DP1551T

Base with short-circuit isolator
Kilsen KZ700

Variants: DB304
KZ700B
KZ705
KZ705D
KZ705R
KZD705

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Annex 2 to the CERTIFICATE CONSTANCY OF PERFORMANCE

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Harmonised technical specification	EN 54-5:2000/A1:2002	
Essential Characteristics	Performance	Clause
Nominal activation conditions / Sensitivity / Response delay (response time) and Performance under fire conditions		-
- Classification	A2R	- 4.2
- Position of heat sensitive element	pass	- 4.3
- Directional dependence	pass	- 5.2
- Static response temperature	pass	- 5.3
- Response times from typical application temperature	pass	- 5.4
- Response times from 25 °C	pass	- 5.5
- Response times from high ambient temperature	pass	- 5.6
- Reproducibility	pass	- 5.8
- Additional test for suffix S detectors	NA	- 6.1
- Additional test for suffix R detectors	pass	- 6.2
Operational reliability		
- Individual alarm indication	pass	4.4
- Connection of ancillary devices	pass	4.5
- Monitoring of detachable detectors	pass	4.6
- Manufacturer's adjustments	pass	4.7
- On-site adjustment of response behaviour	NA	4.8
- Marking	pass	4.9
- Data	pass	4.10
- Additional requirements for software-controlled detectors	NA	4.11
Tolerance to supply voltage		
- Variation in supply parameters	pass	5.7
Durability of operational reliability and response delay, temperature resistance		
- Cold (operational)	pass	5.9
- Dry heat (endurance)	pass	5.10
Durability of operational reliability, vibration resistance		
- Shock (operational)	pass	5.14
- Impact (operational)	pass	5.15
- Vibration, sinusoidal (operational)	pass	5.16
- Vibration, sinusoidal (endurance)	pass	5.17
Durability of operational reliability, humidity resistance		
- Damp heat, cyclic (operational)	pass	5.11
- Damp heat, steady state (endurance)	pass	5.12
Durability of operational reliability, corrosion resistance		
- Sulphur dioxide (SO ₂) corrosion (endurance)	pass	5.13
Durability of operational reliability, electrical stability		
- Electromagnetic compatibility (EMC), immunity (operational)	pass	5.18
Note: NPD theoretically possible; except for durability of characteristics with declared performance NA (not applicable) for components to which the requirement does not apply		

Brussels, 28 juin 2021


 Marc Magerus
 Certification Manager

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Annex 3 to the CERTIFICATE CONSTANCY OF PERFORMANCE

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Harmonised technical specification **EN 54-7:2000/A1:2002/A2:2006**

Essential Characteristics	Performance	Clause
Nominal activation conditions / Sensitivity / Response delay (response time) and Performance under fire conditions		
- Response to slowly developing fires	NA	4.8
- Repeatability	pass	5.2
- Directional dependence	pass	5.3
- Reproducibility	pass	5.4
- Air movement	pass	5.6
- Dazzling	pass	5.7
- Fire sensitivity	pass	5.18
Operational reliability		
- Individual alarm indication	pass	4.2
- Connection of ancillary devices	pass	4.3
- Monitoring of detachable detectors	pass	4.4
- Manufacturer's adjustments	pass	4.5
- On-site adjustment of response behaviour	NA	4.6
- Protection against the ingress of foreign bodies	pass	4.7
- Marking	pass	4.9
- Data	pass	4.10
- Additional requirements for software-controlled detectors	pass	4.11
Tolerance to supply voltage		
- Variation in supply voltage	pass	5.5
Durability of operational reliability and response delay, temperature resistance		
- Dry heat	pass	5.8
- Cold (operational)	pass	5.9
Durability of operational reliability, vibration resistance		
- Shock (operational)	pass	5.13
- Impact (operational)	pass	5.14
- Vibration (operational)	pass	5.15
- Vibration (endurance)	pass	5.16
Durability of operational reliability, humidity resistance		
- Damp heat, steady state (operational)	pass	5.10
- Damp heat, steady state (endurance)	pass	5.11
Durability of operational reliability, corrosion resistance		
- Sulphur dioxide (SO ₂) corrosion	pass	5.12
Durability of operational reliability, electrical stability		
- Electromagnetic compatibility (EMC), immunity (operational)	pass	5.14
Note: NPD theoretically possible; except for durability of characteristics with declared performance NA (not applicable) for components to which the requirement does not apply		

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