

UL-EU CERTIFICATE

Certificate No. UL-EU-01237-CPR
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Date of Issue 2022-01-28
Certificate Holder Cofem SA
Carrer del Compositor Wagner, 8-10, P.I. Can Jordi,
Rubí, Barcelona, 08191, Spain
Manufacturer Same as Certificate Holder
Certified Product Type Heat Detectors - Point Heat Detectors
Smoke Detectors - Point Detectors using Scattered Light,
Transmitted Light or Ionization
Short-circuit Isolators
A50SHCOI* Smoke/heat detector with isolator and CO sensor
A50SHI Smoke and heat detector with isolator
A50SH Smoke and heat detector
A50SI Smoke detector with isolator
A50S Smoke detector
A50HI Heat detector with isolator
A50H Heat detector
800035 Compatible (low) Base for all detectors
800036 Compatible (high) Base for all detectors
* Product is not tested for CO functionality

Trademark



Rating/Classification
Harmonised Technical Specifications

See Appendix
EN54-5:2017 + A1:2018
EN54-7:2018
EN54-17:2005 + AC:2007

Supporting Documentation

S36365-D01-EuropeanDirective-Original

Additional information

NA

Expiry date

2032-01-28



Authorized Certification Decision Maker
Chris Miles

This is to certify that representative samples of the Certified Product listed above have been investigated by Underwriters Laboratories to the Standard(s) indicated on this Certificate, in accordance with the UL Global Services Agreement and the UL-EU Mark Service Terms and Conditions ("Agreement"). The Certificate Holder is entitled to use the UL-EU Mark for the Certified Product listed on the certificate and manufactured at the production site(s) listed, in accordance with the terms of the Agreement. Only those products bearing the UL-EU Mark for Europe should be considered as being covered by UL's UL-EU Mark Service. This Certificate shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.



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This certificate relates to the use of Point Heat Detectors, Point Smoke Detectors and Short-circuit Isolators in fire detection and fire alarm systems installed in buildings. The detailed scope is given in pages 3 to 7 of this Certificate.

The product is certificated on the basis of:

- i) S36365-D01-EuropeanDirective-Original
- ii) Inspection and surveillance of factory production control by UL



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Essential Characteristics for A50SHCOI, A50SHI, A50SH, A50HI, A50H	Performance	Standard
Heat Response Categories	Pass	EN54-5:2017 + A1:2018
Position of heat sensitive elements	Pass	EN54-5:2017 + A1:2018
Individual alarm indication	Pass	EN54-5:2017 + A1:2018
Connection of ancillary devices	Pass	EN54-5:2017 + A1:2018
Monitoring of detachable detectors	Pass	EN54-5:2017 + A1:2018
Manufacturer's adjustments	Pass	EN54-5:2017 + A1:2018
Software controlled detector (when provided)	Pass	EN54-5:2017 + A1:2018
General	Pass	EN54-5:2017 + A1:2018
Directional dependence	Pass	EN54-5:2017 + A1:2018
Static response temperature	Pass	EN54-5:2017 + A1:2018
Response times from typical application temperature	Pass	EN54-5:2017 + A1:2018
Response times from high ambient temperature	Pass	EN54-5:2017 + A1:2018
Reproducibility	Pass	EN54-5:2017 + A1:2018
Additional test for suffix R detectors	Pass	EN54-5:2017 + A1:2018
Variation in supply parameters	Pass	EN54-5:2017 + A1:2018
Cold (operational)	Pass	EN54-5:2017 + A1:2018
Damp heat, cyclic (operational)	Pass	EN54-5:2017 + A1:2018
Damp heat, steady state (endurance)	Pass	EN54-5:2017 + A1:2018
Sulphur dioxide (SO ₂) corrosion (endurance)	Pass	EN54-5:2017 + A1:2018
Shock (operational)	Pass	EN54-5:2017 + A1:2018
Impact (operational)	Pass	EN54-5:2017 + A1:2018
Vibration sinusoidal (operational)	Pass	EN54-5:2017 + A1:2018
Vibration sinusoidal (endurance)	Pass	EN54-5:2017 + A1:2018
EMC, Immunity (operational)	Pass	EN54-5:2017 + A1:2018
Marking, labelling, and packaging	Pass	EN54-5:2017 + A1:2018



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Essential Characteristics for A50SHCOI, A50SHI, A50SH, A50SI, A50S (cont.)	Performance	Standard
Compliance	Pass	EN 54-7:2018
Individual alarm indication	Pass	EN 54-7:2018
Connection of ancillary devices	Pass	EN 54-7:2018
Monitoring of detachable detectors	Pass	EN 54-7:2018
Manufacturer's adjustments	Pass	EN 54-7:2018
Protection against the ingress of foreign bodies	Pass	EN 54-7:2018
Response to slowly developing fires	Pass	EN 54-7:2018
Software-controlled detectors	Pass	EN 54-7:2018
General	Pass	EN 54-7:2018
Repeatability	Pass	EN 54-7:2018
Directional dependence	Pass	EN 54-7:2018
Reproducibility	Pass	EN 54-7:2018
Air movement	Pass	EN 54-7:2018
Dazzling	Pass	EN 54-7:2018
Variation in supply parameters	Pass	EN 54-7:2018
Fire sensitivity	Pass	EN 54-7:2018
Cold (operational)	Pass	EN 54-7:2018
Dry heat (operational)	Pass	EN 54-7:2018
Damp heat, steady state (operational)	Pass	EN 54-7:2018
Damp heat, steady state (endurance)	Pass	EN 54-7:2018
Sulphur dioxide (SO ₂) corrosion (endurance)	Pass	EN 54-7:2018
Shock (operational)	Pass	EN 54-7:2018
Impact (operational)	Pass	EN 54-7:2018
Vibration, sinusoidal (operational)	Pass	EN 54-7:2018
Vibration, sinusoidal (endurance)	Pass	EN 54-7:2018
EMC, immunity (operational)	Pass	EN 54-7:2018
Marking, Labelling & Packaging	Pass	EN 54-7:2018



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Essential Characteristics for A50SHCOI, A50SHI, A50SI, A50HI (cont.)	Performance	Standard
Compliance	Pass	EN 54-17:2005 + AC:2007
Integral status indication	Pass	EN 54-17:2005 + AC:2007
Connection of ancillary devices	Pass	EN 54-17:2005 + AC:2007
Monitoring of detachable short-circuit isolators	Pass	EN 54-17:2005 + AC:2007
Manufacturer's adjustments	Pass	EN 54-17:2005 + AC:2007
Marking	Pass	EN 54-17:2005 + AC:2007
Data	Pass	EN 54-17:2005 + AC:2007
Additional requirements for software-controlled short-circuit isolators	Pass	EN 54-17:2005 + AC:2007
General	Pass	EN 54-17:2005 + AC:2007
Reproducibility	Pass	EN 54-17:2005 + AC:2007
Variation in supply voltage	Pass	EN 54-17:2005 + AC:2007
Dry heat (operational)	Pass	EN 54-17:2005 + AC:2007
Cold (operational)	Pass	EN 54-17:2005 + AC:2007
Damp heat, cyclic (operational)	Pass	EN 54-17:2005 + AC:2007
Damp heat, steady state (endurance)	Pass	EN 54-17:2005 + AC:2007
Sulphur dioxide (SO ₂) corrosion (endurance)	Pass	EN 54-17:2005 + AC:2007
Shock (operational)	Pass	EN 54-17:2005 + AC:2007
Impact (operational)	Pass	EN 54-17:2005 + AC:2007
Vibration, sinusoidal (operational)	Pass	EN 54-17:2005 + AC:2007
Vibration, sinusoidal (endurance)	Pass	EN 54-17:2005 + AC:2007
EMC, immunity tests (operational)	Pass	EN 54-17:2005 + AC:2007



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Key Performance Parameters

Operating voltage nominal:	24VDC
Operating voltage maximum:	35VDC
Operating voltage minimum:	20VDC
Temperature category (where applicable)	A2R
Heat sensitivity certified setting*	Medium
Smoke sensitivity certified setting*	Medium
Detector base	Models 800035 and 800036
*Other sensitivity settings are not tested	

Isolator ratings

Maximum voltage at which the device isolates (i.e., switches from closed to open);	$V_{SO\ max}$	= 2.5V
Minimum voltage at which the device isolates (i.e., switches from closed to open);	$V_{SO\ min}$	= 0V
Maximum voltage at which the device reconnects (i.e., switches from open to closed);	$V_{SC\ max}$	= 8V
Minimum voltage at which the device reconnects (i.e., switches from open to closed).	$V_{SC\ min}$	= 1.2V
Maximum rated continuous current with the switch closed;	$I_C\ max$	= 400mA
Maximum rated switching current (e.g., under short circuit conditions);	$I_S\ max$	= 400mA
Maximum leakage current with the switch open (isolated state);	$I_L\ max$	= 17mA
Maximum series impedance with the switch closed.	$Z_C\ max$	= 6 Ω



Appendix UL-EU Certificate

Certification Mark	UL-EU mark
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The UL-EU Mark, as displayed below, shall appear on certified products only. Minimum size is not specified, as long as the Mark is legible. The following is suggested.



The minimum height of the registered trademark symbol ® shall be 1 mm. When the overall diameter of the UL-EU Mark is less than 9.5 mm, the trademark symbol may be omitted if it is not legible to the naked eye.

The UL-EU Mark may appear on a label, nameplate, or may be cast, stamped or molded into the product. When appearing on a label or nameplate, the Manufacturer's name or trademark along with a model number are also required on that same label or nameplate. If cast, stamped or molded, the Manufacturer's name or trademark and model number shall also appear elsewhere on the product.

All content shall be in accordance with the details provided on this UL-EU Certificate.

PROCUREMENT

The Production site may reproduce the Mark or obtain it from a UL authorized supplier. The list of UL authorized suppliers can be found on UL's online directory at www.ul.com.

Form-ULID-006104 (DCS:27-CP-F0855) 5.0

