

No. CPR-DOP-502

- 1. Unique Product identification code: FD805R/810R
- 2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

FD805R-N, FD810R-N, FD805RH and FD810RH

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Smoke detector - Line detector using an optical light beam, for use in fire detection and alarm systems within buildings

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

UTC Fire and Security Kelvinstraat, 7, NL6003 DH, Weert, The Netherlands

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

Not applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

System 1

7. In case of the declaration of performance concerning a construction product covered by the harmonized standard:

BRE Certification Ltd - 0832

performed type testing and the initial inspection of the manufacturing plant and of the factory production control with continuous surveillance assessment and approval of the factory production control under system 1 and issued the EC certificates of conformity:

0832-CPR-F0391

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

Not Applicable, see Item 7

9. Declared performance:

All requirements including all Essential Characteristics and the corresponding performances for the intended use or uses indicated in 3. have been determined as described in the hEN mentioned in the following table.

DECLARATION OF PERFORMANCE According to Construction Products Regulation EU N° 305/2011



No. CPR-DOP-502

SCOPE AND RELEVANT CHARACTERISTICS

Essential characteristics		Performance against the Harmonized Technical Specification EN54-12:2015	
Operational reliability			
Individual alarm indication	4.2.1	Integral visible indicator	
Connection of ancillary devices	4.2.2	Not applicable	
Manufacturers' adjustments	4.2.3	Complies	
On-site adjustment of response value	4.2.4	Complies	
Protection against ingress of foreign bodies	4.2.5	Sphere of diameter 1.3mm cannot enter enclosure	
Monitoring of detachable detectors and connections	4.2.6	Complies	
Additional requirements for software controlled detectors	4.2.7	Documentation available, modular structure, invalid data not permitted, program deadlock avoided. site specific data in non-volatile memory with two-week retention	
Nominal activation conditions/Sensitivity			
Reproducibility	4.3.1	Cmin \ge 0.4dB, Cmax / Crep \le 1.33, Crep / Cmin \le 1.5	
Repeatability	4.3.2	No fault or alarm signals for 3 days, Cmin ≥ 0.4dB, Cmax /Cmin ≤ 1.6	
Tolerance to beam misalignment	4.3.3	Angle of misalignment is ± 0.41 degrees, no fault or alarm signal within 0.46 degrees of stated tolerance within 30s with 6dB filter.	
Rapid changes in attenuation	4.3.4	Alarm signal within 30s with 6dB filter in front of receiver, fault signal within 60s with 10dB filter in front of receiver. Alarm signal not cancelled by fault.	
Slow changes in attenuation	4.3.5	Drift compensation limited so that for fires developing faster than C/4 per hour the response value does not increase by more than 1.6 x C, where C is the initial response value. Compensation range limited. Alarm signal not cancelled by fault.	
Optical path length dependence	4.3.6	Cmin \ge 0.4dB, Cmax / Cmin \le 1.6	
Stray Light	4.3.7	No fault or alarm signals during conditioning, Cmin ≥ 0.4dB, Cmax / Cmin ≤ 1.6	
Tolerance to supply voltage Variation of supply parameters	4.4	Cmin ≥ 0.4dB, Cmax / Cmin ≤ 1.6	
Performance under fire conditions Fire sensitivity	4.5	Alarm signal in each test fire, with $m_a < 0.7 \text{ dB m}^{-1}$	

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SCOPE AND RELEVANT CHARACTERISTICS

Essential characteristics		Performance against the Harmonized Technical Specification EN54-12:2015	
Dry heat (operational)	4.6.1.1	No fault or alarm signals during conditioning, Alarm signal within 30s with 6dB filter in front of receiver, Cmin ≥ 0.4dB, Cmax / Cmin ≤ 1.6	
Cold (operational)	4.6.1.2	No fault or alarm signals during conditioning, Alarm signal within 30s with 6dB filter in front of receiver, Cmin ≥ 0.4dB, Cmax / Cmin ≤ 1.6	
Damp heat, stead state (operational)	4.6.2.1	No fault or alarm signals during conditioning, Cmin ≥ 0.4dB, Cmax / Cmin ≤ 1.6	
Damp heat, stead state (endurance)	4.6.2.2	Cmin \geq 0.4dB, Cmax / Cmin \leq 1.6	
Vibration (endurance)	4.6.3.1	Cmin \ge 0.4dB, Cmax / Cmin \le 1.6	
Impact (operational)	4.6.3.2	No alarm or fault signals during the conditioning except when the beam is obstructed by the impact apparatus. Cmin \ge 0.4dB, Cmax / Cmin \le 1.6	
EMC, immunity tests (operational)	4.6.4	Meets the requirements of EN 50130-4:2015 and Cmin \ge 0.4dB, Cmax / Cmin \le 1.6	
Sulphur dioxide SO2 corrosion	4.6.5	Cmin ≥ 0.4dB, Cmax / Cmin ≤ 1.6	

10. The performance of the product identified in 1. and 2. is in conformity with the declared performance in 9. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011 under the sole responsibility of the manufacturer identified in 4.

Signed for and on behalf of the manufacturer by:

Oliver Burstall Managing Director Hitchin, 11th June 2019