

DECLARATION OF PERFORMANCE

No. 2831-CPR-F4095

According to Construction Products Regulation EU N° 305/2011



Product category

| | |
|--|--|
| Product identification | IR Flame Detector (Conventional) |
| Type | BG-21 |
| Intended use | Fire Detection and Fire Alarm Systems |
| Manufacturer | Autronica Fire and Security AS – PO Box 5620, 7483 Trondheim |
| System type | System 1 |
| Notified body | BRE (Ireland) Nr. 2831 |
| Certificate of Constancy of Performance (COP) | 2831-CPR-F4095 |
| Table of performance | See table below |

Table of performance

| Harmonised technical specification | | EN 54-10:2002 +A1:2005 |
|--|-------------|------------------------|
| Essential Characteristics | Performance | Clause |
| Nominal activation conditions / sensitivity I response delay (response time) and performance under fire conditions | | |
| - Classification | Pass | 4.2 |
| - Reproducibility | Pass | 5.2 |
| - Repeatability | Pass | 5.3 |
| - Directional dependence | Pass | 5.4 |
| - Fire sensitivity | Pass | 5.5 |
| - Dazzling (operational) | Pass | 5.6 |
| Operational reliability | | |
| - Individual alarm indication | Pass | 4.3 |
| - Connection of ancillary devices | Pass | 4.4 |
| - Monitoring of detachable detectors | Pass | 4.5 |
| - Manufacturer's adjustments | Pass | 4.6 |
| - On-site sensitivity adjustment | Pass | 4.7 |
| - Data | Pass | 4.8 |
| - Additional requirements for software-controlled detectors | Pass | 4.9 |

| Harmonised technical specification | | EN 54-10:2002 +A1:2005 |
|---|-------------|------------------------|
| Essential Characteristics | Performance | Clause |
| Durability of operational reliability, temperature resistance | | |
| - Dry heat (operational) | Pass | 5.7 |
| - Cold (operational) | Pass | 5.8 |
| Durability of operational reliability, humidity resistance | | |
| - Damp heat, cyclic (operational) | Pass | 5.9 |
| - Damp heat, steady state (endurance) | Pass | 5.10 |
| Durability of operational reliability, corrosion resistance | | |
| - Sulphur dioxide (SO ₂) corrosion (endurance) | Pass | 5.11 |
| Durability of operational reliability, vibration resistance | | |
| - Shock (operational) | Pass | 5.12 |
| - Impact (operational) | Pass | 5.13 |
| - Vibration, sinusoidal (operational) | Pass | 5.14 |
| - Vibration, sinusoidal (endurance) | Pass | 5.15 |
| Tolerance to supply voltage | | |
| - Variation in supply parameters (operational) | Pass | 5.16 |
| Durability of operational reliability, electrical stability | | |
| - Electromagnetic compatibility (EMC), immunity (operational) | Pass | 5.17 |

The performance of the product identified as «Product identification» and «Type» is in conformity with the declared “Table of performance”. This declaration of performance is issued under the sole responsibility of the manufacturer.

Signed for and on behalf of Autronica Fire and Security:
Trondheim, Norway, 2020-12-11


