

**CERTIFICATE OF CONSTANCY OF PERFORMANCE**

Issued by DBI Certification-UK, approved body No. 8504.

In compliance with UK STATUTORY INSTRUMENT 2020 No. 1359 Construction Products Regulation 2011 (retained EU law EUR 305/2011) as amended by the Construction Products (Amendment etc.) (EU Exit) Regulations 2019 and the Construction Products (Amendment etc.) (EU Exit) Regulations 2020, this certificate applies to the construction product

**V-430-S, V-530-S, V-430-VADW, V-530-VADW, V-430-S-VADW, V-530-S-VADW, V-430-SP, V-530-SP, V-430-SP-VADW, V-530-SP-VADW, V-430-SP-VADR, V-530-SP-VADR, V-430-S-VADR, V-530-S-VADR, V-430-VADR, V-530-VADR, V-430, V-530, V-530-EXIA, V-530-EXIC, V-430-S-CO, V-530-S-CO**

The product fulfils the essential characteristic:

**See Annex 1**

Intended use:

Applications related to automatic fire alarm systems

Placed on the market under the name or trade mark of:

**Autronica Fire and Security AS  
Bromstadvegen 59  
NO-7047 Trondheim  
Norway**

and produced in the manufacturing plant:

**CPA10058**

This attests that all provisions concerning the performance described in Annex ZA of the standard(s)

|                                     |          |                                                                                                                                                                    |
|-------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EN 54-3:2001+A1:2002+A2:2006</b> | <b>:</b> | <b>Fire detection and fire alarm systems — Part 3: Fire alarm devices — Sounders</b>                                                                               |
| <b>EN 54-5:2017+A1:2018</b>         | <b>:</b> | <b>Fire detection and fire alarm systems — Part 5: Heat detectors — Point heat detectors</b>                                                                       |
| <b>EN 54-7:2018</b>                 | <b>:</b> | <b>Fire detection and fire alarm systems — Part 7: Smoke detectors — Point smoke detectors that operate using scattered light, transmitted light or ionization</b> |
| <b>EN 54-23:2010</b>                | <b>:</b> | <b>Fire detection and fire alarm systems — Part 23: Fire alarm devices — Visual alarm devices</b>                                                                  |

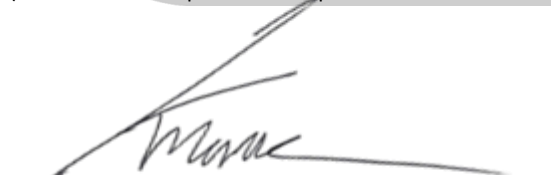
under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

**CONSTANCY OF PERFORMANCE OF THE CONSTRUCTION PRODUCT.**

This certificate was first issued on 2022-07-07 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.  
The attached annexes form part of this certificate.

Date of issue: **2026-07-31**

(This certificate supersedes the previous version of this certificate issued 2026-01-30)



Kenneth Maronie  
Responsible for evaluation



Andrew Marc  
Responsible for certification decision

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## Annex 1

## EXTENT

| Model         | Description                                               | Product compliant with standard                                                       |
|---------------|-----------------------------------------------------------|---------------------------------------------------------------------------------------|
| V-430-S       | Multicriteria Detector with Sounder                       | EN 54-3:2001/A1:2002/A2:2006<br>EN 54-5:2017/A1:2018<br>EN 54-7:2018                  |
| V-530-S       | Multicriteria Detector SIL2 with Sounder                  | EN 54-3:2001/A1:2002/A2:2006<br>EN 54-5:2017/A1:2018<br>EN 54-7:2018                  |
| V-430-VADW    | Multicriteria Detector with White Beacon                  | EN 54-5:2017/A1:2018<br>EN 54-7:2018<br>EN 54-23:2010                                 |
| V-530-VADW    | Multicriteria Detector SIL2 with White Beacon             | EN 54-5:2017/A1:2018<br>EN 54-7:2018<br>EN 54-23:2010                                 |
| V-430-S-VADW  | Multicriteria Detector with Sounder and White Beacon      | EN 54-3:2001/A1:2002/A2:2006<br>EN 54-5:2017/A1:2018<br>EN 54-7:2018<br>EN 54-23:2010 |
| V-530-S-VADW  | Multicriteria SIL2 Detector with Sounder and White Beacon | EN 54-3:2001/A1:2002/A2:2006<br>EN 54-5:2017/A1:2018<br>EN 54-7:2018<br>EN 54-23:2010 |
| V-430-SP      | Multicriteria Detector with Speech                        | EN 54-3:2001/A1:2002/A2:2006<br>EN 54-5:2017/A1:2018<br>EN 54-7:2018                  |
| V-530-SP      | Multicriteria Detector SIL2 with Speech                   | EN 54-3:2001/A1:2002/A2:2006<br>EN 54-5:2017/A1:2018<br>EN 54-7:2018                  |
| V-430-SP-VADW | Multicriteria Detector with Speech and White Beacon       | EN 54-3:2001/A1:2002/A2:2006<br>EN 54-5:2017/A1:2018<br>EN 54-7:2018<br>EN 54-23:2010 |
| V-530-SP-VADW | Multicriteria Detector SIL2 with Speech and White Beacon  | EN 54-3:2001/A1:2002/A2:2006<br>EN 54-5:2017/A1:2018<br>EN 54-7:2018<br>EN 54-23:2010 |
| V-430-SP-VADR | Multicriteria Detector with Sounder and Red Beacon        | EN 54-3:2001/A1:2002/A2:2006<br>EN 54-5:2017/A1:2018<br>EN 54-7:2018<br>EN 54-23:2010 |
| V-530-SP-VADR | Multicriteria Detector SIL2 with Sounder and Red Beacon   | EN 54-3:2001/A1:2002/A2:2006<br>EN 54-5:2017/A1:2018<br>EN 54-7:2018<br>EN 54-23:2010 |
| V-430-S-VADR  | Multicriteria Detector with Sounder and Red Beacon        | EN 54-3:2001/A1:2002/A2:2006<br>EN 54-5:2017/A1:2018<br>EN 54-7:2018<br>EN 54-23:2010 |
| V-530-S-VADR  | Multicriteria Detector SIL2 with Sounder and Red Beacon   | EN 54-3:2001/A1:2002/A2:2006<br>EN 54-5:2017/A1:2018<br>EN 54-7:2018<br>EN 54-23:2010 |
| V-430-VADR    | Multicriteria Detector with Red Beacon                    | EN 54-5:2017/A1:2018<br>EN 54-7:2018<br>EN 54-23:2010                                 |

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|            |                                                             |                                                                      |
|------------|-------------------------------------------------------------|----------------------------------------------------------------------|
| V-530-VADR | Multicriteria Detector SIL2 with Red Beacon                 | EN 54-5:2017/A1:2018<br>EN 54-7:2018<br>EN 54-23:2010                |
| V-430      | Multicriteria Detector                                      | EN 54-5:2017/A1:2018<br>EN 54-7:2018<br>EN 54-23:2010                |
| V-530      | Multicriteria Detector SIL2                                 | EN 54-5:2017/A1:2018<br>EN 54-7:2018                                 |
| V-530-EXIA | Multicriteria Detector SIL2 Ex ia                           | EN 54-5:2017/A1:2018<br>EN 54-7:2018                                 |
| V-530-EXIC | Multicriteria Detector SIL2 Ex ic                           | EN 54-5:2017/A1:2018<br>EN 54-7:2018                                 |
| V-430-S-CO | Combined smoke and heat detector with sounder and CO sensor | EN 54-3:2001/A1:2002/A2:2006<br>EN 54-5:2017/A1:2018<br>EN 54-7:2018 |
| V-530-S-CO | Combined smoke and heat detector with sounder and CO sensor | EN 54-3:2001/A1:2002/A2:2006<br>EN 54-5:2017/A1:2018<br>EN 54-7:2018 |

Full model codes are defined by the formats **V-430-xxxxx-yy/ww/zz** and **V-530-xxxxx-yy/ww/zz** where:

xxxxx = Model as listed in the table above

S, VADW, VADR, S-VADR, SP-VADW, SP-VADR, EXIA, EXIC

yy = Color of housing

Blank = White, BK = Black, CC = Customized Colour

ww = Enabled options

Blank = None, CD = Cover Detection & Self Verify, HS = Extra High Sensitivity\*, DS = Data Subscription, CFxxx = Custom Features (C = A to Z, F = A to Z, xxx = 000 to 999)

\* Note that when the HS = Extra High Sensitivity setting is used, the product is not compliant with EN 54-7:2018. Refer to the manufacturer's documentation.

\* Note, the CO function cannot be certified since there is no harmonised standards under the CPR.

#### Bases:

V-100 BASE

V-110 BASE SIL2

V-120 BASE SIL2 Ex

Note these bases are Certified under 2531-CPR-CSP11293.

#### Operating Voltage:

10 to 27 V DC

#### EN 54-7:2018 Sensivity Classes configurable (panel/configuration tool)

| Sensivity Class | Description                                                        |
|-----------------|--------------------------------------------------------------------|
| High            | Clean environments, for example laboratories, data rooms etc.      |
| Medium          | Normal environments, for example offices and hospitals etc.        |
| Low             | Industrial environments, for example factories and warehouses etc. |

#### EN 54-3:2001/A1:2002/A2:2006 Approved Tone Settings

All applicable models identified above are approved for use with the following tones at maximum volume setting only:

| Tone Setting | Tone Description                    |
|--------------|-------------------------------------|
| Tone 1       | Continuous 915Hz                    |
| Tone 2       | Dutch Slow Whoop 500-1200Hz         |
| Tone 3       | Alternating 730 & 915Hz (2Hz cycle) |
| Tone 4       | Continuous 3650Hz                   |
| Tone 5       | Whoop 800-970Hz                     |
| Tone 6       | DIN tone 1200-500Hz sweep (1Hz)     |

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**EN 54-23:2010 Coverage Volumes**

| Model                  | Setting | Coverage |
|------------------------|---------|----------|
| V430-S-VADR            | High    | C-3-8    |
|                        | Medium  | C-3-8    |
|                        | Low     | C-3-5    |
|                        | Open    | O-2.5-4  |
| V-430-VADR (Black Lid) |         | C-3-9    |
| V-430-VADW             | High    | C-3-12   |
|                        | Medium  | C-3-9    |
|                        | Low     | C-3-6    |
|                        | Open    | O-2.5-4  |

**Heat Response Category:**

For detector categories with the suffix S or R, additional requirements are needed see 4.4.1 or 4.4.2

| Detector Category (Heat Class): | Typical Application Temperature | Maximum Application Temperature °C | Minimum Static Response Temperature °C | Maximum Static Response Temperature °C |
|---------------------------------|---------------------------------|------------------------------------|----------------------------------------|----------------------------------------|
| A1                              | 25                              | 50                                 | 54                                     | 65                                     |
| A1R                             | 25                              | 50                                 | 54                                     | 65                                     |
| A1S                             | 25                              | 50                                 | 54                                     | 65                                     |
| A2S                             | 25                              | 50                                 | 54                                     | 70                                     |
| B                               | 40                              | 65                                 | 69                                     | 85                                     |
| C                               | 55                              | 80                                 | 84                                     | 100                                    |

**Response time limits:**

| Rate of rise of air temperature K min <sup>-1</sup> | Cat A1, A1R, A1S |    |             |    |
|-----------------------------------------------------|------------------|----|-------------|----|
|                                                     | Lower limit      |    | Upper limit |    |
|                                                     | Min              | S  | Min         | S  |
| 1                                                   | 29               | 0  | 40          | 20 |
| 3                                                   | 7                | 13 | 13          | 40 |
| 5                                                   | 4                | 9  | 8           | 20 |
| 10                                                  | 1                | 0  | 4           | 20 |
| 20                                                  |                  | 30 | 2           | 20 |
| 30                                                  |                  | 20 | 1           | 40 |

| Rate of rise of air temperature K min <sup>-1</sup> | Cat A2S, B, C |    |             |   |
|-----------------------------------------------------|---------------|----|-------------|---|
|                                                     | Lower limit   |    | Upper limit |   |
|                                                     | Min           | S  | Min         | S |
| 1                                                   | 29            | 0  | 46          | 0 |
| 3                                                   | 7             | 13 | 16          | 0 |
| 5                                                   | 4             | 9  | 10          | 0 |

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|    |   |    |   |    |
|----|---|----|---|----|
| 10 | 2 | 0  | 5 | 30 |
| 20 | 1 | 30 | 3 | 13 |
| 30 |   | 40 | 2 | 25 |

**Performance**

| Essential characteristics                                                         | Clauses in EN 54-3:2001 | Performance |
|-----------------------------------------------------------------------------------|-------------------------|-------------|
| Performance under fire conditions                                                 | 4.2, 4.3, 5.2, 5.3      | Pass        |
| Operational reliability                                                           | 4.4, 4.5, 4.6, 5.4      | Pass        |
| Durability of operational reliability and response delay; temperature resistance  | 5.5, 5.7, 5.8, 5.9      | Pass        |
| Durability of operational reliability; humidity resistance                        | 5.8, 5.9                | Pass        |
| Durability of operational reliability; corrosion resistance                       | 5.11                    | Pass        |
| Durability of operational reliability; vibration resistance                       | 5.12 to 5.15            | Pass        |
| Durability of operational reliability; electrical stability                       | 5.16                    | Pass        |
| Durability of operational reliability; resistance to ingress                      | 5.17                    | Pass        |
| 5.16 applies only to sounders or voice sounders with active electronic components |                         |             |

| Essential characteristics                     | Clauses in EN 54-5:2017/ A1:2018 | Regulatory classes      | Performance                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------|----------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Operational reliability:</b>               |                                  |                         |                                                                                                                                                                                                                                                                                                        |
| Position of heat sensitive element            | 4.2.1                            | A1, A1R, A1S, A2S, B, C | The heat sensitive element(s) or at least part of it, except elements with auxiliary functions (e.g. characteristic correctors), are at a distance $\geq 15\text{mm}$ from the mounting surface of the point heat detector.                                                                            |
| Individual alarm indication                   | 4.2.2                            |                         | Category A1, A1R, A1S, A2S, B, C<br>The heat detector is provided with an integral red visual indicator and can remain identified until the alarm is reset. The visual indicator is visible from a distance of 6 m directly below the point heat detector, in an ambient light intensity up to 500 lx. |
| Connection of ancillary devices               | 4.2.3                            |                         | Open or short circuit failures of connection to ancillary device do not prevent the correct operation of the detector                                                                                                                                                                                  |
| Monitoring of detachable point heat detectors | 4.2.4                            |                         | A fault condition is signaled when the detector is removed from the mounting base.                                                                                                                                                                                                                     |
| Manufacturer's adjustments                    | 4.2.5                            |                         | It is not possible to change the manufacturer's settings except by special means (e.g. a special code or tool, or by breaking or remove a seal).                                                                                                                                                       |
| Onsite adjustments of response behavior       | 4.2.6                            |                         | a) The detector is provided with a provision for an onsite adjustment of the response behavior and the manufacturer declares a corresponding class and adjustment setting: Special code or tool (AS2000 software) is required to change manufacturer's adjustments                                     |

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|                                                     |                             |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                              |                             |                        |     |      |       |     |      |       |                                                     |                           |  |  |     |   |   |   |    |   |   |    |    |   |    |    |   |    |    |  |    |
|-----------------------------------------------------|-----------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------|------------------------|-----|------|-------|-----|------|-------|-----------------------------------------------------|---------------------------|--|--|-----|---|---|---|----|---|---|----|----|---|----|----|---|----|----|--|----|
| Software controlled detectors (when provided)       | 4.2.7                       |                        | The software documentation and the software design complies supplied by the manufacturer with the requirements of this standard.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                              |                             |                        |     |      |       |     |      |       |                                                     |                           |  |  |     |   |   |   |    |   |   |    |    |   |    |    |   |    |    |  |    |
| <b>Nominal activation conditions/Sensitivity:</b>   |                             |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                              |                             |                        |     |      |       |     |      |       |                                                     |                           |  |  |     |   |   |   |    |   |   |    |    |   |    |    |   |    |    |  |    |
| Directional dependence                              | 4.3.1                       |                        | The response time of the point dectetor do not unduly depend on the direction of airflow around the point heat detector.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                             |                        |     |      |       |     |      |       |                                                     |                           |  |  |     |   |   |   |    |   |   |    |    |   |    |    |   |    |    |  |    |
| Static response temperature                         | 4.3.2                       |                        | The response temperatures of the point heat detectors lie between the minimum and maximum static response temperatures, according to the category of the point heat detector in Table 1 above.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                              |                             |                        |     |      |       |     |      |       |                                                     |                           |  |  |     |   |   |   |    |   |   |    |    |   |    |    |   |    |    |  |    |
| Response times from typical application temperature | 4.3.3                       |                        | The response times of the point heat detector lie between the lower and upper response time limits for the appropriate point heat detector category in Table 2 above.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              |                             |                        |     |      |       |     |      |       |                                                     |                           |  |  |     |   |   |   |    |   |   |    |    |   |    |    |   |    |    |  |    |
| Response times from 25 °C                           | 4.3.4                       |                        | The response time at 3 K min <sup>-1</sup> exceeds 7 min 13 s and the response time at 20 K min <sup>-1</sup> exceeds 1 min 0 s.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                              |                             |                        |     |      |       |     |      |       |                                                     |                           |  |  |     |   |   |   |    |   |   |    |    |   |    |    |   |    |    |  |    |
| Response times from high ambient temperature        | 4.3.5                       |                        | No alarm or fault signal was given at high ambient temperatures appropriate to the anticipated service temepratures.<br>A1<br>3 K min <sup>-1</sup> , Lower limit, 1 min 20 s and upper limit 13 m 40 s.<br>20 K min <sup>-1</sup> , Lower limit, 12 s and upper limit 2 m 20 s.<br><br>A2, B, C<br>3 K min <sup>-1</sup> , Lower limit, 1 min 20 s and upper limit 16 m.<br>20 K min <sup>-1</sup> , Lower limit, 12 s and upper limit 3 m 13 s.                                                                                                                                                                                                                                                                                                                       |                              |                             |                        |     |      |       |     |      |       |                                                     |                           |  |  |     |   |   |   |    |   |   |    |    |   |    |    |   |    |    |  |    |
| Reproducibility                                     | 4.3.6                       |                        | The response times of the point heat detectors lie between the lower ad upper response time limits specified in Table 2 above.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                              |                             |                        |     |      |       |     |      |       |                                                     |                           |  |  |     |   |   |   |    |   |   |    |    |   |    |    |   |    |    |  |    |
| <b>Response delay (response time):</b>              |                             |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                              |                             |                        |     |      |       |     |      |       |                                                     |                           |  |  |     |   |   |   |    |   |   |    |    |   |    |    |   |    |    |  |    |
| Additional test for suffix S point heat detectors   | 4.4.1                       |                        | Suffix S point heat detector did not exceed the lower limits of response time during the transer period or during the 10 min exposure below.<br><table><tr><td>Point heat detector category</td><td>Conditioning Temperature °C</td><td>Airflow Temperature °C</td></tr><tr><td>A1S</td><td>5 ±2</td><td>50 ±2</td></tr><tr><td>A2S</td><td>5 ±2</td><td>50 ±2</td></tr></table><br><table><tr><td>Rate of rise of air temperature K min<sup>-1</sup></td><td colspan="2">Lower Limit response time</td></tr><tr><td></td><td>Min</td><td>S</td></tr><tr><td>3</td><td>9</td><td>40</td></tr><tr><td>5</td><td>5</td><td>48</td></tr><tr><td>10</td><td>2</td><td>54</td></tr><tr><td>20</td><td>1</td><td>27</td></tr><tr><td>30</td><td></td><td>58</td></tr></table> | Point heat detector category | Conditioning Temperature °C | Airflow Temperature °C | A1S | 5 ±2 | 50 ±2 | A2S | 5 ±2 | 50 ±2 | Rate of rise of air temperature K min <sup>-1</sup> | Lower Limit response time |  |  | Min | S | 3 | 9 | 40 | 5 | 5 | 48 | 10 | 2 | 54 | 20 | 1 | 27 | 30 |  | 58 |
| Point heat detector category                        | Conditioning Temperature °C | Airflow Temperature °C |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                              |                             |                        |     |      |       |     |      |       |                                                     |                           |  |  |     |   |   |   |    |   |   |    |    |   |    |    |   |    |    |  |    |
| A1S                                                 | 5 ±2                        | 50 ±2                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                              |                             |                        |     |      |       |     |      |       |                                                     |                           |  |  |     |   |   |   |    |   |   |    |    |   |    |    |   |    |    |  |    |
| A2S                                                 | 5 ±2                        | 50 ±2                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                              |                             |                        |     |      |       |     |      |       |                                                     |                           |  |  |     |   |   |   |    |   |   |    |    |   |    |    |   |    |    |  |    |
| Rate of rise of air temperature K min <sup>-1</sup> | Lower Limit response time   |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                              |                             |                        |     |      |       |     |      |       |                                                     |                           |  |  |     |   |   |   |    |   |   |    |    |   |    |    |   |    |    |  |    |
|                                                     | Min                         | S                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                              |                             |                        |     |      |       |     |      |       |                                                     |                           |  |  |     |   |   |   |    |   |   |    |    |   |    |    |   |    |    |  |    |
| 3                                                   | 9                           | 40                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                              |                             |                        |     |      |       |     |      |       |                                                     |                           |  |  |     |   |   |   |    |   |   |    |    |   |    |    |   |    |    |  |    |
| 5                                                   | 5                           | 48                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                              |                             |                        |     |      |       |     |      |       |                                                     |                           |  |  |     |   |   |   |    |   |   |    |    |   |    |    |   |    |    |  |    |
| 10                                                  | 2                           | 54                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                              |                             |                        |     |      |       |     |      |       |                                                     |                           |  |  |     |   |   |   |    |   |   |    |    |   |    |    |   |    |    |  |    |
| 20                                                  | 1                           | 27                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                              |                             |                        |     |      |       |     |      |       |                                                     |                           |  |  |     |   |   |   |    |   |   |    |    |   |    |    |   |    |    |  |    |
| 30                                                  |                             | 58                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                              |                             |                        |     |      |       |     |      |       |                                                     |                           |  |  |     |   |   |   |    |   |   |    |    |   |    |    |   |    |    |  |    |

|                                                                 |                                     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |                                     |     |       |
|-----------------------------------------------------------------|-------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------|-----|-------|
| Additional test for suffix R point heat detectors               | 4.4.2                               |  | Suffix R, the point heat detector maintains the response requirements of its category, in table 2 above, for high rates of rise of temperature from an initial temperature below the typical application temperature applicable to the category marked on it.                                                                                                                                                                                                                                                                                                                                                                                        |                              |                                     |     |       |
|                                                                 |                                     |  | <table><tr><td>Point heat detector category</td><td>Initial conditioning temperature °C</td></tr><tr><td>A1R</td><td>5 ±2</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Point heat detector category | Initial conditioning temperature °C | A1R | 5 ±2  |
| Point heat detector category                                    | Initial conditioning temperature °C |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |                                     |     |       |
| A1R                                                             | 5 ±2                                |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |                                     |     |       |
| <b>Tolerance to supply voltage:</b>                             |                                     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |                                     |     |       |
| Variation in supply parameters                                  | 4.5                                 |  | The point heat detector does not unduly depend on variation in the supply parameters and lie between the lower and upper response time limits specified in Table 2 above.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |                                     |     |       |
| <b>Durability of nominal activation conditions/Sensitivity:</b> |                                     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |                                     |     |       |
| temperature resistance                                          |                                     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |                                     |     |       |
| Cold (operational)                                              | 4.6.1.1                             |  | No alarm or fault signal was given during the transition to the conditioning temperature or during the period at the condition temperature<br><br><u>For resettable point heat detector</u><br>Response time at 3 K min <sup>-1</sup> was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6.<br><br><u>A1</u> : 20 K min <sup>-1</sup> was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6<br><u>A2, B, C</u> : 20 K min <sup>-1</sup> was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6                                    |                              |                                     |     |       |
| Dry heat (endurance)                                            | 4.6.1.2                             |  | No fault signal was given on reconnection attributable to the endurance conditioning<br><br><table><tr><td>Point heat detector category</td><td>Conditioning Temperature °C</td></tr><tr><td>C</td><td>80 ±2</td></tr></table><br>Response time at 3 K min <sup>-1</sup> was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6.<br><br><u>A1</u> : 20 K min <sup>-1</sup> was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6<br><u>A2, B, C</u> : 20 K min <sup>-1</sup> was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6 | Point heat detector category | Conditioning Temperature °C         | C   | 80 ±2 |
| Point heat detector category                                    | Conditioning Temperature °C         |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |                                     |     |       |
| C                                                               | 80 ±2                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |                                     |     |       |
| Humidity resistance                                             |                                     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |                                     |     |       |
| Damp heat, cyclic (operational)                                 | 4.6.2.1                             |  | No alarm or fault signal was given during the conditioning.<br><br>Lower temperature: (25±3) °C<br>Upper temperature: (40±2) °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |                                     |     |       |

|                                                          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                          |         | Relative humidity:<br>At lower temperature : $\geq 95\%$<br>At upper temperature : $(93 \pm 3)\%$<br><br>Response time at $3\text{ K min}^{-1}$ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6.<br><br><u>A1</u> : $20\text{ K min}^{-1}$ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6<br><u>A2, B, C</u> : $20\text{ K min}^{-1}$ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6                                                                                                                                                                                |
| Damp heat, steady-state (endurance)                      | 4.6.2.2 | No fault signal was given on reconnection attributable to the endurance conditioning.<br><br>Conditioning<br>Temperature : $40 \pm 2^\circ\text{C}$<br>Relative Humidity: $93 \pm 3\%$<br>Duration : 21 days<br><br>Response time at $3\text{ K min}^{-1}$ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6.<br><br><u>A1</u> : $20\text{ K min}^{-1}$ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6<br><u>A2, B, C</u> : $20\text{ K min}^{-1}$ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6                                                                     |
| Corrosion resistance                                     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance) | 4.6.3   | No fault signal was given on reconnection attributable to the endurance conditioning.<br><br>Conditioning<br>Temperature : $25 \pm 2^\circ\text{C}$<br>Relative Humidity: $93 \pm 3\%$<br>SO <sub>2</sub> concentration: $25 \pm 5\text{ ppm (by volume)}$<br>Duration : 21 days<br><br>Response time at $3\text{ K min}^{-1}$ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6.<br><br><u>A1</u> : $20\text{ K min}^{-1}$ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6<br><u>A2, B, C</u> : $20\text{ K min}^{-1}$ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6 |
| Vibration resistance                                     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Shock (operational)                                      | 4.6.4.1 | No alarm or fault signal was given during the conditioning period or an additional 2 min.<br><br>For specimen with a mass $\leq 4,75\text{ kg}$ :<br><br>Shock pulse type: Half sine<br>Pulse duration : 6 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

|                                     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                     |         | <p>Peak acceleration: 10X (100-20M) ms<sup>-2</sup> (M is specimen mass in Kg)</p> <p>Number of directions: 6</p> <p>Pulses per direction: 3</p> <p>Response time at 3 K min<sup>-1</sup> was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6.</p> <p><u>A1</u>: 20 K min<sup>-1</sup> was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6</p> <p><u>A2, B, C</u>: 20 K min<sup>-1</sup> was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6</p>                                                                                                                                                          |
| Impact (operational)                | 4.6.4.2 | <p>No alarm or fault signal was given during the conditioning period or an additional 2 min.</p> <p>Conditioning:</p> <p>Impact energy: 1,9 ±0,1 J</p> <p>Hammer velocity: 1,5 ±0,13 ms<sup>-1</sup></p> <p>Number of impacts: 1</p> <p>Response time at 3 K min<sup>-1</sup> was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6.</p> <p><u>A1</u>: 20 K min<sup>-1</sup> was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6</p> <p><u>A2, B, C</u>: 20 K min<sup>-1</sup> was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6</p>                                                                      |
| Vibration, sinusoidal (operational) | 4.6.4.3 | <p>No fault signal was given during the conditioning</p> <p>Conditioning:</p> <p>Frequency range: 10 to 150 Hz</p> <p>Acceleration amplitude: 5 ms<sup>-2</sup> (≈0,5 g<sub>n</sub>)</p> <p>Number of axes : 3</p> <p>Sweep rate: 1 octave min<sup>-1</sup></p> <p>Number of sweep cycles: 1 per axis</p> <p>Response time at 3 K min<sup>-1</sup> was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6.</p> <p><u>A1</u>: 20 K min<sup>-1</sup> was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6</p> <p><u>A2, B, C</u>: 20 K min<sup>-1</sup> was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6</p> |
| Vibration, sinusoidal (endurance)   | 4.6.4.4 | <p>No fault signal was given on reconnection attributable to the endurance conditioning.</p> <p>Conditioning:</p> <p>Frequency range: 10 to 150 Hz</p> <p>Acceleration amplitude: 10 ms<sup>-2</sup> (≈1,0 g<sub>n</sub>)</p> <p>Number of axes : 3</p> <p>Sweep rate: 1 octave min<sup>-1</sup></p> <p>Number of sweep cycles: 20 per axis</p>                                                                                                                                                                                                                                                                                                                                                                                    |

|                                                 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                 |       | <p>Response time at 3 K min<sup>-1</sup> was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6.</p> <p>A1: 20 K min<sup>-1</sup> was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6</p> <p>A2, B, C: 20 K min<sup>-1</sup> was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6</p>                                                                                             |
| Electrical stability EMC immunity (operational) | 4.6.5 | <p>Compliance in EN 50130-4:2011 and No fault signal was given during the conditioning.</p> <p>Response time at 3 K min<sup>-1</sup> was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6.</p> <p>A1: 20 K min<sup>-1</sup> was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6</p> <p>A2, B, C: 20 K min<sup>-1</sup> was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6</p> |

| Essential characteristics                        | Clauses in EN 54-7:2018 | Regulatory classes | Performance                                                                                                                                                                                                    |
|--------------------------------------------------|-------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Operational reliability:</b>                  |                         |                    |                                                                                                                                                                                                                |
| Individual alarm indication                      | 4.2.1                   | None               | The visual indicator(s) are visible from a distance of 6 m in an ambient light intensity up to 500 lx.                                                                                                         |
| Connection of ancillary devices                  | 4.2.2                   |                    | Open or short circuit failures of connection to ancillary device did not prevent the correct operation of the detector                                                                                         |
| Monitoring of detachable detectors               | 4.2.3                   |                    | A fault condition is signaled when the detector is removed from the mounting base.                                                                                                                             |
| Manufacturer's adjustments                       | 4.2.4                   |                    | It is not possible to adjust the detector settings without the use of a special tool to access into the detector or use of a code to enabling entry into the panel programming software.                       |
| On site adjustment of response behavior          | 4.2.5                   |                    | The mode(s) of operation are adjustable from the Control and Indicating Equipment by use of a loop communication protocol. Access to enable mode changes is by software control of the protocol communication. |
| Protection against the ingress of foreign bodies | 4.2.6                   |                    | The chamber is designed so that a sphere of diameter (1,3±0,05) mm cannot pass into the sensor chamber.                                                                                                        |
| Response to slowly developing fires              | 4.2.7                   |                    | The provision of "drift compensation" (e.g. to compensate for sensor drift due to the build-up of dirt in the detector), does not lead to                                                                      |

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|                                                                 |         |  |                                                                                                                                                                                         |
|-----------------------------------------------------------------|---------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                 |         |  | a significant reduction in the detectors sensitivity to slowly developing fires.                                                                                                        |
| Software controlled detectors (when provided)                   | 4.2.8   |  | The software documentation and the software design complies with the requirements of EN 54-7:2018.                                                                                      |
| <b>Nominal activation conditions/sensitivity:</b>               |         |  |                                                                                                                                                                                         |
| Repeatability                                                   | 4.3.1   |  | Ratio of response values<br>$m_{\max}:m_{\min} \leq 1.6$<br>Lower response value,<br>$m_{\max}:m_{\min} \geq 0.05 \text{ dB m}^{-1}$                                                    |
| Directional dependence                                          | 4.3.2   |  | Ratio of response values<br>$m_{\max}:m_{\min} \leq 1.6$<br>Lower response value,<br>$m_{\max}:m_{\min} \geq 0.05 \text{ dB m}^{-1}$                                                    |
| Reproducibility                                                 | 4.3.3   |  | Ratio of response values<br>$m_{\max}:\bar{m} \leq 1.33$<br>Ratio of the response values<br>$\bar{m}:m_{\min} \leq 1.5$<br>Lower response value, $m_{\min} \geq 0.05 \text{ dB m}^{-1}$ |
| <b>Response delay (response time):</b>                          |         |  |                                                                                                                                                                                         |
| Air movement                                                    | 4.4.1   |  | Ratio is $> 0.0625$ and $< 1.60$ and the point smoke detector did not emit a fault nor alarm signal during the test with aerosol-free air                                               |
| Dazzling                                                        | 4.4.2   |  | The specimen did not emit neither an alarm nor a fault signal and Ratio of response thresholds $m_{\max}:m_{\min} \leq 1.6$                                                             |
| <b>Tolerance to supply voltage:</b>                             |         |  |                                                                                                                                                                                         |
| Variation in supply parameters                                  | 4.5     |  | Ratio of response values<br>$m_{\max}:m_{\min} < 1.6$<br>Lower response value, $m_{\min} \geq 0.05 \text{ dB m}^{-1}$                                                                   |
| <b>Performance parameters under fire conditions:</b>            |         |  |                                                                                                                                                                                         |
| Fire sensitivity                                                | 4.6     |  | Evaluated as meeting the requirements of TF2 to TF5                                                                                                                                     |
| <b>Durability of nominal activation conditions/Sensitivity:</b> |         |  |                                                                                                                                                                                         |
| temperature resistance                                          |         |  |                                                                                                                                                                                         |
| Cold (operational)                                              | 4.7.1.1 |  | The specimen did not emit neither an alarm nor a fault signal and Ratio of response values $m_{\max}:m_{\min} \leq 1.6$                                                                 |
| Dry heat (operational)                                          | 4.7.1.2 |  | The specimen did not emit neither an alarm nor a fault signal and Ratio of response values $m_{\max}:m_{\min} \leq 1.6$                                                                 |
| Humidity resistance                                             |         |  |                                                                                                                                                                                         |
| Damp heat, steady-state (operational)                           | 4.7.2.1 |  | The specimen did not emit neither an alarm nor a fault signal and ratio of response values $m_{\max}:m_{\min} \leq 1.6$                                                                 |

|                                                          |         |                                                                                     |                                                                                                                                                                       |
|----------------------------------------------------------|---------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Damp heat, steady-state (endurance)                      | 4.7.2.2 |  | No fault signal, attributable to the endurance conditioning was given on reconnection of the specimen and Ratio of response values $m_{\max} \cdot m_{\min} \leq 1.6$ |
| Corrosion resistance                                     |         |                                                                                     |                                                                                                                                                                       |
| Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance) | 4.7.3   |                                                                                     | No fault signal, attributable to the endurance conditioning was given on reconnection of the specimen and Ratio of response values $m_{\max} \cdot m_{\min} \leq 1.6$ |
| Vibration resistance                                     |         |                                                                                     |                                                                                                                                                                       |
| Shock (operational)                                      | 4.7.4.1 |                                                                                     | No fault signal given from the specimen during the conditioning period or the additional 2 min. and Ratio of response values $m_{\max} \cdot m_{\min} \leq 1.6$       |
| Impact (operational)                                     | 4.7.4.2 |                                                                                     | No fault signal given from the specimen during the conditioning period or the additional 2 min. and Ratio of response values $m_{\max} \cdot m_{\min} \leq 1.6$       |
| Vibration, sinusoidal (operational)                      | 4.7.4.3 |                                                                                     | No fault signal given from the specimen during the conditioning and Ratio of response values $m_{\max} \cdot m_{\min} \leq 1.6$                                       |
| Vibration, sinusoidal (endurance)                        | 4.7.4.4 |                                                                                     | No fault signal, attributable to the endurance conditioning was given on reconnection of the specimen and Ratio of response values $m_{\max} \cdot m_{\min} \leq 1.6$ |
| Electrical stability EMC immunity (operational)          | 4.7.5   |                                                                                     | No alarm or fault signal given during the conditioning and Ratio of response values $m_{\max} \cdot m_{\min} \leq 1.6$                                                |
| a) Electrostatic discharge (operational)                 |         |                                                                                     |                                                                                                                                                                       |
| b) Radiated electromagnetic fields (operational)         |         |                                                                                     |                                                                                                                                                                       |
| c) Conducted disturbances(operational)                   |         |                                                                                     |                                                                                                                                                                       |
| d) Fast transient bursts (operational)                   |         |                                                                                     |                                                                                                                                                                       |
| e) Slow high energy voltage surge (operational)          |         |                                                                                     |                                                                                                                                                                       |

|                           |                          |                       |       |
|---------------------------|--------------------------|-----------------------|-------|
| Essential characteristics | Clauses in EN 54-23:2010 | Level(s) or class(es) | Notes |
|---------------------------|--------------------------|-----------------------|-------|

|                                                  |         |      |             |
|--------------------------------------------------|---------|------|-------------|
| Operational reliability:                         |         |      |             |
| Duration of operation                            | 4.2.1   |      | Pass        |
| Provision for external conductors                | 4.2.2   |      | Pass        |
| Flammability of materials                        | 4.2.3   |      | Pass        |
| Enclosure protection                             | 4.2.4   |      | Pass        |
| Access                                           | 4.2.5   |      | Pass        |
| Manufacturer's adjustments                       | 4.2.6   |      | Pass        |
| On-site adjustment of behaviour                  | 4.2.7   |      | Pass        |
| Requirements for software controlled devices     | 4.2.8   |      | Pass        |
| Performance parameters under fire condition:     |         |      |             |
| Coverage volume                                  | 4.3.1   |      | Pass        |
| Variation of light output                        | 4.3.2   |      | Pass        |
| Minimum and maximum light intensity              | 4.3.3   |      | Pass        |
| Light colour                                     | 4.3.4   |      | Red/White   |
| Light temporal pattern and frequency of flashing | 4.3.5   |      | Pass/0,5 Hz |
| Marking and data                                 | 4.3.6   |      | Pass        |
| Synchronization (option with requirements)       | 4.3.7   |      | Pass        |
| Durability:                                      |         | None |             |
| Temperature resistance:                          |         |      |             |
| Dry heat (operational)                           | 4.4.1.1 |      | Pass        |
| Dry heat (endurance)                             | 4.4.1.2 |      | Pass        |
| Cold (operational)                               | 4.4.1.3 |      | Pass        |
| Humidity resistance:                             |         |      |             |
| Damp heat, cyclic (operational)                  | 4.4.2.1 |      | Pass        |
| Damp heat, steady state (endurance)              | 4.4.2.2 |      | Pass        |
| Damp heat, cyclic (endurance)                    | 4.4.2.3 |      | N/A         |
| Shock and vibration resistance:                  |         |      |             |
| Shock (operational)                              | 4.4.3.1 |      | Pass        |
| Impact (operational)                             | 4.4.3.2 |      | Pass        |
| Vibration (operational)                          | 4.4.3.3 |      | Pass        |
| Vibration (endurance)                            | 4.4.3.4 |      | Pass        |
| Corrosion resistance:                            |         |      |             |
| SO2 corrosion (endurance)                        | 4.4.4   |      | Pass        |
| Electrical stability:                            |         |      |             |
| EMC, immunity (operational)                      | 4.4.5   |      | Pass        |
| <b>NPD for CEA 4021: July 2003</b>               |         |      |             |

## Annex 2

**TEST DOCUMENTATION**

| Accredited Laboratory       | Report no.               | Date       |
|-----------------------------|--------------------------|------------|
| Intertek                    | 103874656LHD-002a        | 2019-11-25 |
| Intertek                    | 103874656LHD-002b        | 2019-11-25 |
| Intertek                    | 103874656LHD-021         | 2020-03-20 |
| Intertek                    | 103874656LHD-022         | 2020-03-20 |
| Intertek                    | 103874656LHD-024         | 2020-03-20 |
| Intertek                    | 103874656LHD-030         | 2020-05-06 |
| Intertek                    | 103963397LHD-021         | 2020-11-20 |
| Intertek                    | 103963397LHD-022         | 2020-11-20 |
| CNBOP-PIB                   | 332/BA/24, Doc-1028938   | 2024-09-02 |
| CNBOP-PIB                   | 755/BA/24, Doc-1030229   | 2025-01-16 |
| CNBOP-PIB                   | 318/BA/25, Doc-1030174   | 2025-09-25 |
| LEXAN 925U resin assessment | DOC-1029992              | 2025-08-15 |
| Hamilton Poland Sp. Z.o.o.  | LT/027/2025, Doc-1029734 | 2025-02-26 |
| DBI                         | PAS10004A                | 2026-06-25 |

**TECHNICAL BASIS**

| Title                                                     | File Number                           |
|-----------------------------------------------------------|---------------------------------------|
| BoM V-430-S-VADR CD AutoGuard                             | Bill of Materials Report              |
| AutoGuard Housing Bayonet Ring (drawing)                  | Doc-1004103 rev.3, 2020-02-12         |
| Autronica detector bottom (drawing)                       | Doc-1004104 rev.6, 2020-02-12         |
| Autronica detector main cover (drawing)                   | Doc-1005445 rev.3, 2020-10-04         |
| AutoGuard Detector Board                                  | Doc-1003067, rev. 6, 2021-10-25       |
| MB50-315 Masterbatch                                      | Doc-1029733 rev.1, -                  |
| AutoGuard V-430 datasheet, English                        | Doc-1004268 rev.6, 2025-02-10         |
| Sound patterns; AutoGuard sound pressure levels for tones | Doc-1004272 rev.1, 2020-05-19         |
| SW Release Note                                           | AutoGuard 1.22.3-1.24.4 Release Notes |
| SW Release Note                                           | AutoGuard 1.24.5 Release Notes        |

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