

**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

**BG-301, BG-301-EXIA, BG-301-EXIC**

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)

**EN 54-10:2002+A1:2005 : Fire detection and fire alarm systems — Part 10: Flame detectors — Point detectors**

**EN 54-17:2005+AC:2007 : Fire detection and fire alarm systems — Part 17: Short circuit isolators**

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 2024-06-27 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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: **2024-06-27**



Chris Ellis  
Responsible for evaluation



Merete Poulsen  
Responsible for certification decision

**DBI Certification-UK Ltd.**

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Annex 1

<p><b>Type:</b> Flame Detector with short circuit isolator</p> <p>BG-301 AutoFlame Triple IR flame detector BG-301-EXIA AutoFlame Ex ia Triple IR flame detector BG-301-EXIC AutoFlame Ex ic Triple IR flame detector</p> <p><b>Performance</b></p>		
Essential characteristics	Clauses in EN 54-10:2002+A1:2005	Performance
Nominal activation conditions / Sensitivity, Response delay (response time) and Performance under fire conditions	4.2, 5.2 to 5.6	Pass
Operational reliability	4.3 to 4.9	Pass
Tolerance to supply voltage	5.16	Pass
Durability of operational reliability and response delay; Temperature resistance	5.7, 5.8	Pass
Durability of operational reliability; vibration resistance	5.12 to 5.15	Pass
Durability of operational reliability; humidity resistance	5.9, 5.10	Pass
Durability of operational reliability; corrosion resistance	5.11	Pass
Durability of operational reliability; electrical stability	5.17	Pass
Essential characteristics	Clauses in EN 54-17:2005+AC:2007	Performance
Performance under fire conditions	5.2 <sup>1)</sup>	Pass
Operational reliability	4	Pass
Durability of operational reliability; temperature resistance	5.4, 5.5	Pass
Durability of operational reliability; vibration resistance	5.9 to 5.12	Pass
Durability of operational reliability; humidity resistance	5.6, 5.7	Pass
Durability of operational reliability; corrosion resistance	5.8	Pass
Durability of operational reliability; electrical stability	5.3, 5.13	Pass
<p>1) This is assuming that the effect of the fire is to cause a short circuit in the transmission path that is protected by these devices</p>		

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Annex 2

TEST DOCUMENTATION

Accredited Laboratory	Report no.	Date
PCA	1381/BA/23	2024-02-22

TECHNICAL BASIS

File Number	Title	Date
116-BG-301.1.4	BOM list	2024-06-20
116-BG-301-EXIC.1.5	BOM List	2024-06-20
116-BG-301-EXIA.1.5	BOM list	2024-06-20

End of certificate