

CERTIFICATE OF CONSTANCY OF PERFORMANCE

Issued by DBI Certification, notified body No. 2531.

In compliance with *Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011* (the Construction Products Regulation or CPR), 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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

Annex 1

EXTENT

Type:

Flame Detector with short circuit isolator

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

Performance

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 ¹⁾	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

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

Annex 2

TEST DOCUMENTATION

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

TECHNICAL BASIS

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

