# Certificate No.: 2531-CPR-CSP11342

## 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

**BN-300, BN-500/EX, BN-500/N, BN-310, BN-320, BN-320/2, BN-320/4, BN-320/5**

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 54-17:2005/AC:2007** | **:** | **Fire detection and fire alarm systems - Part 17: Short-circuit isolators** |
| **EN 54-18:2005/AC:2007** | **:** | **Fire detection and fire alarm systems - Part 18: Input/output devices** |

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 2023-09-21 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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: **2023-09-21**.

Merete Poulsen
Responsible for evaluation

Chris Ellis
Responsible for certification decision

Annex 1

**EXTENT**

**Type:**
Input/Output fuction with short circuit isolators of the following devices:
**BN-300, BN-500/EX, BN-500/N, BN-310, BN-320, BN-320/2, BN-320/4, BN-320/5**

**Performance**

| Essential characteristics | Clauses in EN 54-17:2005/AC:2007 | Performance | Notes |
|---|---|---|---|
| Performance under fire conditions | 5.2 | Pass | 1) |
| 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.

| Essential characteristics | Clauses in EN 54-18:2005/AC:2007 | Performance | Notes |
|---|---|---|---|
| Response delay (response time) | 5.2 | NPD | 1), 2), 3) |
| Performance under fire conditions | 5.1.4 | Pass | |
| Operational reliability | 5.1.4 | Pass | |
| Durability of operational reliability; temperature resistance | 5.3, 5.4 | Pass | |
| Durability of operational reliability; vibration resistance | 5.8 to 5.11 | Pass | |
| Durability of operational reliability; humidity resistance | 5.5, 5.6 | Pass | 4) |
| Durability of operational reliability; corrosion resistance | 5.7 | NPD | |
| Durability of operational reliability; electrical stability | 5.2, 5.12 | Pass | |

1) Response delays may not be a function of the input/output device, in which case no assessment is made as part of this standard.
2) NPD, not tested with the upper and lower limits of the supply parameters specified by the Manufacturer.
3) The unit is supplied from the detection loop, which provides a stable supply from the CIE – Therefore the clause 5.2 is not applicable.
4) The components have been tested for Damp heat, steady state – endurance in the EN 54-17:2005/AC:2007 but not considering the I/O function.

Annex 2

**TEST DOCUMENTATION**

| Accredited Laboratory | Report no. | Date |
|---|---|---|
| DNV (Applica) | 2001-3252 | 2001-07-12 |
| NEMKO | E18217.00 | 2018-11-15 |
| ANPI | BFS/REDI/234 | 2009-01-28 |
| CNPP | DE080070A | 2028-12-23 |

**TECHNICAL BASIS**

| File Number | Title | Date |
|---|---|---|
| Doc-1011316 rev 1 | I/O Units Performances and Reports cross reference | 2023-09-06 |