

# DECLARATION OF PERFORMANCE



According to Construction Products Regulation EU N° 305/2011

## IR Flame detector - Conventional

Product identification	IR Flame detector - Conventional
Type	BG-21
Intended use	Fire detection and fire alarm systems
Manufacturer	Autronica Fire and Security AS, PO Box 5620, 7483 Trondheim
System type	System 1
Notified body	BRE 0832
Certificate of Constancy of Performance (COP)	0832-CPD-2000
Table of performance	See table below

### Table of performance

Harmonised technical specification		EN 54-10:2002 + A1:2005
Essential Characteristics	Performance	Clause
Nominal activation conditions / sensitivity / response delay (response time) and performance under fire conditions		
- Classification	pass	4.2
- Reproducibility	pass	5.2
- Repeatability	pass	5.3
- Directional dependence	pass	5.4
- Fire sensitivity	pass	5.5
- Dazzling (operational)	pass	5.6
Operational reliability		
- Individual alarm indication	pass	4.3
- Connection of ancillary devices	pass	4.4
- Monitoring of detachable detectors	pass	4.5
- Manufacturer's adjustments	pass	4.6
- On-site sensitivity adjustment	pass	4.7
- Data	pass	4.8
- Additional requirements for software controlled detectors	pass	4.9
Tolerance to supply voltage		
- Variation in supply parameters (operational)	pass	5.16

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

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

Signed for and on behalf of Autronica Fire and Security:  
Trondheim, Norway, 2013-05-23

