

DECLARATION OF PERFORMANCE



AUTRONICA
FIRE AND SECURITY

According to Construction Products Regulation EU N° 305/2011

Optical Smoke and Heat detector

Product identification	Optical Smoke and Heat detector – Point detector with short circuit isolator
Type	BHH-320, BHH-220, BHH-520, BHH-520/N, BHH-520/EX
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	ANPI
Certificate of Constancy of Performance (COP)	1134-CPD-017
Table of performance	See table below

Table of performance

Harmonised technical specification	Performance	EN 54-5:2000	EN 54-7:2000	EN 54-17:2000
		A1:2002	A1:2002	A1:2002
			A2:2006	
Essential Characteristics	Performance	Clause		
Nominal activation conditions / sensitivity / response delay (response time) and performance under fire conditions				
- Classification	pass	4.2	N.A	N.A
- Position of heat sensitive element	pass	4.3	N.A	N.A
- Directional dependence	pass	5.2	N.A	N.A
- Static response temperature	pass	5.3	N.A	N.A
- Response times from typical application temperature	pass	5.4	N.A	N.A
- Response times from 25 °C	pass	5.5	N.A	N.A
- Response times from high ambient temperature	pass	5.6	N.A	N.A
- Reproducibility	pass	5.8	5.4	5.2
- Additional test for suffix S detectors	pass	6.1	N.A	N.A
- Additional test for suffix R detectors	pass	6.2	N.A	N.A

Harmonised technical specification		EN 54-5:2000 + A1:2002	EN 54-7:2000 + A1:2002 + A2:2006	EN 54-17:2000 + A1:2002
Essential Characteristics	Performance	Clause		
Operational reliability				
- Requirements	pass	N.A	N.A	4
- Individual alarm indication	pass	4.4	4.2	N.A
- Connection of ancillary devices	pass	4.5	4.3	N.A
- Monitoring of detachable detectors	pass	4.6	4.4	N.A
- Manufacturer's adjustments	pass	4.7	4.5	N.A
- On-site adjustment of response behaviour	pass	4.8	4.6	N.A
- Marking	pass	4.9	4.9	N.A
- Data	pass	4.10	4.10	N.A
- Additional requirements for software controlled detectors	pass	4.11	4.11	N.A
Tolerance to supply voltage				
- Variation in supply parameters	pass	5.7	5.5	N.A
Durability of operational reliability and response delay, temperature resistance				
- Cold (operational)	pass	5.9	5.9	5.5
- Dry heat (endurance)	pass	5.10	5.8	5.4
Durability of operational reliability, vibration resistance				
- Shock (operational)	pass	5.14	5.13	5.9
- Impact (operational)	pass	5.15	5.14	5.10
- Vibration, sinusoidal (operational)	pass	5.16	5.15	5.11
- Vibration, sinusoidal (endurance)	pass	5.17	5.16	5.12
Durability of operational reliability, humidity resistance				
- Damp heat, cyclic (operational)	pass	5.11	5.10	5.6
- Damp heat, steady state (endurance)	pass	5.12	5.11	5.7
Durability of operational reliability, corrosion resistance				
- Sulphur dioxide (SO ₂) corrosion (endurance)	pass	5.13	5.12	5.8

Harmonised technical specification		EN 54-5:2000 + A1:2002	EN 54-7:2000 + A1:2002 + A2:2006	EN 54-17:2000 + A1:2002
Essential Characteristics	Performance	Clause		
Durability of operational reliability, electrical stability				
- Variations in supply parameters	pass	N.A	N.A	5.3
- Electromagnetic compatibility (EMC), immunity (operational)	pass	5.18	5.17	5.13

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

