

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

BD-200PT/84-KIT, BD-200PT/100-KIT, BD-200PT/120-KIT, BD-200PT/140-KIT

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 54-5:2017+A1:2018 Fire detection and fire alarm systems - Part 5: Heat detectors - point heat 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 2025-11-03 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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: 2025-11-03.

Kenneth Maronie Responsible for evaluation Merete Poulsen

Responsible for certification decision



Annex 1

EXTENT

Model Reference:

BD-200PT/84-KIT, BD-200PT/100-KIT, BD-200PT/120-KIT, 116-BD-200PT/140-KIT

Model name	Description	EN 54-5 Category
BD-200PT/84-KIT	Heat detector kit with sensor and interface box for alarm temperature 84 °C	CS
BD-200PT/100-KIT	Heat detector kit with sensor and interface box for alarm temperature 100 °C	DS
BD-200PT/120-KIT	Heat detector kit with sensor and interface box for alarm temperature 120 °C	ES
BD-200PT/140-KIT	Heat detector kit with sensor and interface box for alarm temperature 140 °C	FS
BD-200PT-I/84	Heat detector interface box for alarm temperature 84 °C	-
BD-200PT-I/100	Heat detector interface box for alarm temperature 100 °C	-
BD-200PT-I/120	Heat detector interface box for alarm temperature 120 °C	-
BD-200PT-I/140	Heat detector interface box for alarm temperature 140 °C	1
BD-200PT-S	Heat detector sensor for temperature 84 °C, 100 °C, 120 °C and 140 °C	-

Description:

High-temperature heat detector for detection of rise in environment temperature caused by a fire. The detector is designed for use with Autronica's interactive fire detection systems. With additional test for Suffix S detectors.

Operating Voltage:

16V-26 V DC

Heat Response Catergory:

*For detector categories with the suffix S or R, additional requirements are needed see 4.4.1 or 4.4.2

Table 1

Variant	Detector	Typical	Maximum	Minimum Static	Maximum Static Response
	Category	Application	Application	Response	Temperature °C
	(Heat Class):	Temperature	Temperature °C	Temperature °C	
84	CS	55	80	84	100
100	DS	70	95	99	115
120	ES	85	110	114	130
140	FS	100	125	129	145

Table 2- Response time limits

Rate of rise of	Cat A2, B, C, D, E, F and G					
air temperature K min-1	Lowe	er limit	Upe	r limit		
	Min	S	Min	S		
1	29	0	46	0		
3	7	13	16	0		
5	4	9	10	0		
10	2	0	5	30		
20	1	30	3	13		
30		40	2	25		

Tlf.: 36 34 90 90



Performance (tjek Annex ZA.1 I relevant standard)

Essential characteristics	Clauses in EN 54- 5:2017/ A1:2018	Regulatory classes	Performance
Operational reliability:			
Position of heat sensitive element	4.2.1		The heat sensitive element(s) or at least part of it, except elements with auxiliary functions (e.g.characteristic correctors), are a distance ≥15mm from the mounting surface of the point heat detector.
Individual alarm indication	4.2.2		Category A1, A2,B,C, or D The heat detector is provided with an integral red visual indicator and can remain identified until the alarm is reset. The visual indicator is visible from a distance of 6 m directly below the point heat detector, in an ambient light intensity up to 500 lx.
			Category E, F, or G The heat detector is provided with either an integral red indicator, or with another means for locally indicating the alarm status of the point heat detector. See note:1
Connection of ancillary devices	4.2.3		Open or short circuit failures of connection to ancillary device do not prevent the correct operation of the detector
Monitoring of detachable point heat detectors	4.2.4	A1 A2 B C D F F C	A fault condition is signaled when the detector is removed from the mounting base.
Manufacturer's adjustments	4.2.5	A1,A2,B,C,D,E,F,G	It is not possible to change the maufacture's settings expept by special means (e.g. a special code or tool, or by breaking or remove a seal).
Onsite adjustments of response behavior	4.2.6		a)The detector is provided with a provision for an onsite adjustment of the response behavior and the manufacturer declares a corresponding class and adjustment setting.
			aujustinent setting.
Software controlled detectors (when provided)	4.2.7		The software documentation and the software design complies supplied by the manufacturer with the requirements of this standard.
Nominal activation conditions/Sensitivity:			
Directional dependence	4.3.1		The response time of the point dectetor do not unduly depend on the direction of airflow around the point heat detector.
Static response temperature	4.3.2		The response temperatures of the point heat detectors lie between the minimum and maximum static response temperatures, according to the category of the point heat detector in Table 1 above.





Danier ti f	4.2.2	1	Th	**···· C.1			I'			
Response times from	4.3.3		The response					or.		
typical application temperature			between the							
l			above.	the appropriate point heat detector category in Table 2						
Response times from 25	4.3.4		The response	time at 3 K r	nin ⁻¹ ex	ceeds 7 m	in 13 s ar	d the		
°C			response time	e at 20 K min	-1 excee	eds 1 min (Os.			
	_									
Response times from	4.3.5		No alarm or fa	_	_	_				
high ambient temperature			temperatures temepratures		to the	anticipate	a service			
lemperature			temepratares	•						
			3 K min ⁻¹ , Lov	ver limit, 1 m	nin 20 s	and uppe	r limit 16	m.		
			20 K min ⁻¹ , Lo	wer limit, 12	s and	upper limi	t 3 m 13 s	i.		
Reproducibility	4.3.6		The response					ocifical		
			between the in Table 2 abo		er resp	Jonse time	mints sp	ecinea		
			rabic 2 abc							
Response delay										
(response time):										
Additional test for suffix	4.4.1		Suffix S point					•		
S point heat detectors			limits of respondering the 10				eriod or			
			during the 10	iiiiii exposui	e belov	vv.				
			Point heat	Conditioni	ng	Airflow]		
	7		detector	Temperatu		Temper	ature °C			
			category							
			A1S	5 ±2		50 ±2				
			A2S	5 ±2		50 ±2				
			BS	20 ±2		65 ±2				
			CS	35 ±2		80 ±2				
			DS	50 ±2		95 ±2		1		
								-		
			ES	65 ±2		110 ±2		-		
			FS	80 ±2		125 ±2		-		
			GS	95 ±2		140 ±2]		
			Data -f -:	-f -:-	1	uan Hirarit			_	
			Rate of rise temperature		Low	ver Limit re	esponse			
			l	= K IIIIII -			c			
			3		Mir 9	1	S 40			
			5		5		48			
			10		2		54			
			20		1		27			
			30				58			





Additional traction of the	1.4.2	L N. / A		1
Additional test for suffix R point heat detectors	4.4.2	N/A		
N point heat detectors				
Televeneste				
Tolerance to supply voltage:				
Variation in supply	4.5	The point heat detector doe	es not unduly depent on	
parameters		variation in the supply para	meters and lie between the	
		lower and upper response t above.	ime limits specified in Table 2	
		above.		
Durability of nominal				
activation				
conditions/Sensitivity:				
temperature resistance Cold (operational)	4.6.1.1	No alarm or fault signal was	given during the transition to	
(openant)			re or during the period at the	
		condition temperature		
		For resettable point heat de	atector	
			was not less than 7 min 13 s	
		and did not exceed 2 min 40		
		obtained in 4.3.6.		
		20 K min ⁻¹ was not less that	n 1 min and did not exceed 30	
		s compared with the time o		
Dry heat (endurance)	4.6.1.2	No fault signal was given or	n reconnection attributable to	
Dry ficat (efficientialice)	7.0.1.2	the endurance conditioning		
		Point heat detector	Conditioning	
		category	Temperature °C	
		С	80 ±2	
		D	95 ±2	
		Е	110 ±2	
		F	125 ±2	
		G	140 ±2	
		For resettable point heat de	etector	





		Response time at 3 K min ⁻¹ was not less than 7 min 13 s	
		and did not exceed 2 min 40 s compared with the time	
		obtained in 4.3.6.	
		All others: 20 K min ⁻¹ was not less than 1 min and did not	
		exceed 30 s compared with the time obtained in 4.3.6	
Humidity resistance			
Damp heat, cyclic	4.6.2.1	No alarm or fault signal was given during the	
(operational)	4.0.2.1	conditioning.	
(operational)		55.18.18.51.11.6	
		Lower temperature: (25±3) °C	
		Upper temperature: (40±2) °C	
		Relative humidity:	
		At lower temperature :≥ 95 %	
		At upper temperature : (93 ±3) %	
		For resettable point heat detector	
		Response time at 3 K min ⁻¹ was not less than 7 min 13 s	
		and did not exceed 2 min 40 s compared with the time	
		obtained in 4.3.6.	
		All others: 20 K min ⁻¹ was not less than 1 min and did not	
		exceed 30 s compared with the time obtained in 4.3.6	
Damp heat, steady-state	4.6.2.2	No fault signal was given on reconnection attributable to	
(endurance)		the endurance conditioning.	
		Conditioning	
		Temperature: 40 ±2 °C	
		Relative Humidity: 93 ±3 %	
		Duration: 21 days	
		For resettable point heat detector	
	`	Response time at 3 K min ⁻¹ was not less than 7 min 13 s	
		and did not exceed 2 min 40 s compared with the time	
		obtained in 4.3.6.	
		20 K min ⁻¹ was not less than 1 min and did not exceed 30 s	
		compared with the time obtained in 4.3.6	
		35	
Corrosion resistance			
Sulphur dioxide (SO ₂)	4.6.3	No fault signal was given on reconnection attributable to	
corrosion (endurance)		the endurance conditioning.	
		Conditioning	
		Temperature: 25 ±2 °C	
		Relative Humidity: 93 ±3 %	
		SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days	
		Duration. 21 days	
		For resettable point heat detector	





Response time at 3 K min* was not less than 7 min 13 s and did not exceed 3 min 40 s compared with the time obtained in 4.3.6. 20 K min* was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass < 4,75 kg: Shock pulse type: 18th Given 10X (100-20M) ms-2 (M is specimen in the pulse duration: 6 ms Peak sceleration: 10X (100-20M) ms-2 (M is specimen in the pulse duration: 6 ms Peak sceleration: 10X (100-20M) ms-2 (M is specimen in the pulse duration: 6 ms Peak sceleration: 10X (100-20M) ms-2 (M is specimen in the pulse duration: 6 ms Peak sceleration: 10X (100-20M) ms-2 (M is specimen in the pulse duration: 6 ms Peak sceleration: 10X (100-20M) ms-2 (M is specimen in the pulse per direction: 3 Enr resistable point heat detector Response time at 3 K min* was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. A1: 20 K min* was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. No alarm or fault signal was given during the conditional 2 min. Conditioning: Impact (operational) Vibration, sinusoidal (operational) 4.6.4.3 No fault signal was given during the conditioning Conditioning: Frequency range: 10 to 150 Hz Acceleration amplitude: 5 ms*(1-0,5 gs) Number of axes: 3 Sweep rate: 3 octave min* Number of axes: 3 Sweep rate: 1 octave min* Number of axes: 3 Sweep rate: 1 octave min* Number of axes: 3 Sweep rate: 3 octave min* Number of axes: 3 Sweep rate: 3 octave min* Number of axes: 3 Sweep rate: 3 octave min* Number of axes: 3				
and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. 20 K min ⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass 4.75 kg: Shock pulse type: Half sine Pulse duration: 6 ms Peak acceleration: 20X (100-20M) ms-2 (M is specimen mass in Kg) Number of directions: 6 Pulses per direction: 3 For resettable point heat detector Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. 20 K min ⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. No alarm or fault signal was given during the conditioning period or an additional 2 min. No alarm or fault signal was given during the conditioning period or an additional 2 min. Conditioning: Impact energy: 1,9 ±0.1 1 Hammer velocity: 1,5 ±0.13 ms ⁻¹ Number of impacts: 1 For resettable point heat detector Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. 20 K min ⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. Vibration, sinusoidal (operational) 4.6.4.3 No fault signal was given during the conditioning Conditioning: Frequency range; 10 to 150 Hz Acceleration amplitude: 5 ms ⁻² (-0,5 g,) Number of axee; 3 Sweep rate: 1 octave min ⁻¹ Number of oxee; 3 Sweep rate: 1 octave min ⁻¹ Number of oxee; 3 Sweep rate: 1 octave min ⁻¹ Number of sweep cycles: 1 per axis			Response time at 3 K min ⁻¹ was not less than 7 min 13 s	
obtained in 4.3.6. 20 K min ⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass s 4.75 kg: Shock pulse type: Half sine Pulse duration: 10X (100-20M) ms-2 (M is specimen mass in Kg) Number of directions: 6 Pulses per direction: 3 For resettable point heat detector. Response time at 13 km in ⁻¹ was not less than 7 min 13 s and did not exceed 30 s compared with the time obtained in 4.3.6. A1: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. On alarm or fault signal was given during the conditioning period or on additional 2 min. Conditioning: Impact (operational) 4.6.4.2 Impact (operational) 4.6.4.3 No alarm or fault signal was given during the conditioning period or on additional 2 min. Conditioning: Impact and the signal was given during the conditioning of impacts: 1 For resettable point heat detector. Response time at 13 K min ⁻¹ was not less than 7 min 13 s and did not exceed 30 s compared with the time obtained in 4.3.6. Vibration, sinusoidal (operational) Vibration, sinusoidal (operational) No fault signal was given during the conditioning Conditioning: Frequency range: 10 to 150 Hz Acceleration amplitude: 5 ms ⁻¹ (-0.5 gc) Number of axes: 3 Sweep rate: 1 octave min ² Number of sweep cycles: 1 per axis				
Vibration resistance				
Compared with the time obtained in 4.3.6				
Compared with the time obtained in 4.3.6			20 K min-1 was not less than 1 min, and did not exceed 30 s	
No alarm or fault signal was given during the conditioning period or an additional 2 min.				
No alarm or fault signal was given during the conditioning period or an additional 2 min.			compared with the time obtained in 4.3.6	
No alarm or fault signal was given during the conditioning period or an additional 2 min.				
No alarm or fault signal was given during the conditioning period or an additional 2 min.				
conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine Pulse duration: 6 ms Peak acceleration: 10X (100-20M) ms-2 (M is specimen mass in Kg) Number of directions: 6 Pulses per direction: 3 For resettable point heat detector Response time at 3 K min² was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1: 20 K min² was not less than 10 and did not exceed 30 s compared with the time obtained in 4.3.6. 20 K min² was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. No alarm or fault signal was given during the conditioning: Impact energy: 1,9 ±0,1) Hammer velocity: 1,5 ±0,13 ms² Number of impacts: 1 For resettable point heat detector Response time at 3 K min² was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. Vibration, sinusoidal (operational) Vibration, sinusoidal (operational) 4.6.4.3 No fault signal was given during the conditioning Conditioning: Frequency range: 10 to 150 Hz Acceleration amplitude: 5 ms² (=0,5 g,) Number of axes: 3 Sweep rate: 1 octave min² Number of sweep cycles: 1 per axis				
For specimen with a mass \$ 4,75 kg: Shock pulse type: Half sine Pulse duration: 6 ms Peak acceleration: 10X (100-20M) ms-2 (M is specimen mass in Kg) Number of directions: 6 Pulses per direction: 3 For resettable point heat detector Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. Al; 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 20 K min ⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6 No alarm or fault signal was given during the conditioning: Impact energy: 1,9 ±0.1 1 Hammer velocity: 1,5 ±0,13 ms ⁻¹ Number of impacts: 1 For resettable point heat detector Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. 20 K min ⁻² was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. Vibration, sinusoidal (operational) 4.6.4.3 No fault signal was given during the conditioning Conditioning: Frequency range: 10 to 150 Hz Acceleration amplitude: 5 ms ⁻² (=0,5 g _n) Number of axes: 3 Sweep rate: 1 octave min ⁻¹ Number of sweep cycles: 1 per axis	Shock (operational)	4.6.4.1	No alarm or fault signal was given during the	
Shock pulse type: Half sine Pulse duration: 6 ms Peak acceleration: 10X (100-20M) ms-2 (M is specimen mass in Kg) Number of directions: 6 Pulses per direction: 3 For resettable point heat detector Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. Alt 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 20 K min ⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6 No alarm or fault signal was given during the conditioning: Impact energy: 1,9 ±0,1 y Hammer velocity: 1,5 ±0,13 ms ⁻¹ Number of impacts: 1 For resettable point heat detector Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. 20 K min ⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. No fault signal was given during the conditioning Conditioning: Frequency range: 10 to 150 Hz Acceleration amplitude: 5 ms ⁻² (-0,5 g _e) Number of axes: 3 Sweep rate: 1 octave min ⁻¹ Number of sweep cycles: 1 per axis			conditioning period or an additional 2 min.	
Shock pulse type: Half sine Pulse duration: 6 ms Peak acceleration: 10X (100-20M) ms-2 (M is specimen mass in Kg) Number of directions: 6 Pulses per direction: 3 For resettable point heat detector Response time at 3 K min³ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. Alt 20 K min³ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 20 K min³ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6 No alarm or fault signal was given during the conditioning: Impact energy: 1,9 ±0.1 I Hammer velocity: 1,5 ±0,13 ms¹ Number of impacts: 1 For resettable point heat detector Response time at 3 K min³ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. 20 K min³ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. No fault signal was given during the conditioning Conditioning: Frequency range: 10 to 150 Hz Acceleration amplitude: 5 ms² (=0,5 g _a) Number of axes: 3 Sweep rate: 1 octave min² Number of sweep cycles: 1 per axis				
Shock pulse type: Half sine Pulse duration: 6 ms Peak acceleration: 10X (100-20M) ms-2 (M is specimen mass in Kg) Number of directions: 6 Pulses per direction: 3 For resettable point heat detector Response time at 3 K min³ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. Alt 20 K min³ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 20 K min³ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6 No alarm or fault signal was given during the conditioning: Impact energy: 1,9 ±0.1 I Hammer velocity: 1,5 ±0,13 ms¹ Number of impacts: 1 For resettable point heat detector Response time at 3 K min³ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. 20 K min³ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. No fault signal was given during the conditioning Conditioning: Frequency range: 10 to 150 Hz Acceleration amplitude: 5 ms² (=0,5 g _a) Number of axes: 3 Sweep rate: 1 octave min² Number of sweep cycles: 1 per axis			For specimen with a mass ≤ 4,75 kg:	
Pulse duration: 6 ms Peak acceleration: 10X (100-20M) ms-2 (M is specimen mass in Kg) Number of directions: 6 Pulses per direction: 3 For resettable point heat detector Response time at 3 K min ⁻³ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1: 20 K min ⁻³ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Impact (operational) 4.6.4.2 No alarm or fault signal was given during the conditioning period or an additional 2 min. Conditioning: Impact energy: 1,9±0.1 Hammer velocity: 1,5±0,13 ms ⁻³ Number of impacts: 1 For resettable point heat detector Response time at 3 K min ⁻³ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. Vibration, sinusoidal (operational) Vibration, sinusoidal (operational) No fault signal was given during the conditioning Conditioning: Frequency range: 10 to 150 Hz Acceleration amplitude: 5 ms ⁻² (=0,5 g ₀) Number of axes: 3 Sweep rate: 1 octave min ⁻² Number of sweep cycles: 1 per axis				
Pulse duration: 6 ms Peak acceleration: 10X (100-20M) ms-2 (M is specimen mass in Kg) Number of directions: 6 Pulses per direction: 3 For resettable point heat detector Response time at 3 K min ⁻³ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1: 20 K min ⁻³ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Impact (operational) 4.6.4.2 No alarm or fault signal was given during the conditioning period or an additional 2 min. Conditioning: Impact energy: 1,9±0.1 Hammer velocity: 1,5±0,13 ms ⁻³ Number of impacts: 1 For resettable point heat detector Response time at 3 K min ⁻³ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. Vibration, sinusoidal (operational) Vibration, sinusoidal (operational) No fault signal was given during the conditioning Conditioning: Frequency range: 10 to 150 Hz Acceleration amplitude: 5 ms ⁻² (=0,5 g ₀) Number of axes: 3 Sweep rate: 1 octave min ⁻² Number of sweep cycles: 1 per axis			Shock pulse type: Half sine	
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mass in Kg) Number of directions: 6 Pulses per direction: 3				
Number of directions: 6 Pulses per directions: 3 For resettable point heat detector Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Impact (operational) 4.6.4.2 No alarm or fault signal was given during the conditioning period or an additional 2 min. Conditioning: Impact energy: 1,9 ±0,1 J Hammer velocity: 1,5 ±0,13 ms ⁻¹ Number of impacts: 1 For resettable point heat detector Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 20 min 4.3.6. Vibration, sinusoidal (operational) Vibration, sinusoidal (operational) A6.4.3 No fault signal was given during the conditioning Conditioning: Frequency range: 10 to 150 Hz Acceleration amplitude: 5 ms ⁻² (=0,5 g _a) Number of ass : 3 Sweep rate: 1 octave min ⁻¹ Number of sweep cycles: 1 per axis				
Pulses per direction: 3 For resettable point heat detector. Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 20 K min ⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6 No alarm or fault signal was given during the conditioning period or an additional 2 min. Conditioning: Impact energy: 1,9 ±0,11 Hammer velocity: 1,5 ±0,13 ms ⁻¹ Number of impacts: 1 For resettable point heat detector. Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. 20 K min ⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6. No fault signal was given during the conditioning Conditioning: Frequency range: 10 to 150 Hz Acceleration amplitude: 5 ms ⁻² (=0,5 g _o) Number of axes: 3 Sweep rate: 1 octave min ⁻¹ Number of sweep cycles: 1 per axis			5,	
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Frequency range: 10 to 150 Hz Acceleration amplitude: 5 ms ⁻² (≈0,5 g _n) Number of axes: 3 Sweep rate: 1 octave min ⁻¹ Number of sweep cycles: 1 per axis	Vibration, sinusoidal	4.6.4.3	No fault signal was given during the conditioning	
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Vibration, sinusoidal (endurance)	4.6.4.4	No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning:
		Frequency range: 10 to 150 Hz Acceleration amplitude: 10 ms ⁻² (≈1,0 g _n) Number of axes: 3 Sweep rate: 1 octave min ⁻¹ Number of sweep cycles: 20 per axis
		For resettable point heat detector Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6.
		A1: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 20 K min ⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6
Electrical stability EMC immunity (operational)	4.6.5	Compliance in EN 50130-4:2011 and No fault signal was given during the conditioning. For resettable point heat detector Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6.
		A1: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 20 K min ⁻¹ was not less than 1 min and did not exceed 30 s compared with the time obtained in 4.3.6

Essential characteristics	Clauses in EN 54-17:2005	Performance
Performance under fire conditions	5.2 1)	Pass
Operational reliability	4	Pass
Durability of operational reliability;	5.4, 5.5	Pass
temperature resistance		
Durability of operational reliability;	5.9 to 5.12	Pass
vibration resistance		
Durability of operational reliability;	5.6, 5.7	Pass
humidity resistance		
Durability of operational reliability;	5.8	Pass
corrosion resistance		



Member of:

SAFE, TRUSTED, RELIABLE



Durability of operational reliability; 5.3, 5.13 Pass electrical stability

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

Note 1: Performance not declared for CS and DS.





Member of:

EFSG SAFE, TRUSTED, RELIABLE



Annex 2

TEST DOCUMENTATION

Accredited Laboratory	Report no.	Date
CNBOP-PIB	832/BA/24	2025-08-29

TECHNICAL BASIS

Title	Number	Date
вом	116-BD-200PT-I/84 .1 .2	2025-10-07
вом	116-BD-200PT-I/100 .1 .2	2025-10-07
вом	116-BD-200PT-I/120 .1 .2	2025-10-07
вом	116-BD-200PT-I/140 .1 .3	2025-10-07
вом	116-BD-200PT-S .1 .2	2025-06-30
Schmatics PT100 AL_Com Heat detector BDA-1001	Doc-1016879, rev. 4	2025-02-04
Drawing PCB 116-100002544.1	M6927, Doc-1017453, rev. 4	2025-02-05
Schmatics BDA-1003 Sensor Board	Doc-1028731, rev.1	2024-12-11
PCB Specification BDA-1020 Heat Detector PT100	116-100002544.1, DOC-1028733, rev. 1	2024-09-24
PCB Specification BDA-1030 Small Sensor Board	116-100002604.1, DOC-1029032, rev. 1	2024-12-18



