

ISO 7240-5:2003-12 (E)

Fire detection and alarm systems - Part 5: Point-type heat detectors

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	General requirements	2
4.1	General	2
4.2	Classification	2
4.3	Position of heat-sensitive elements	3
4.4	Individual alarm indication	3
4.5	Connection for ancillary devices	3
4.6	Monitoring of detachable detectors	3
4.7	Manufacturer's adjustments	3
4.8	On-site adjustment of response behaviour	3
4.9	Marking	4
4.10	Data	4
4.11	Requirements for software-controlled detectors	4
5	Tests	6
5.1	General	6
5.2	Directional dependence	10
5.3	Static response temperature	10
5.4	Response times from the typical application temperature	10
5.5	Response times from 25 °°°°C	11
5.6	Response times from high ambient temperature, dry heat (operational)	11
5.7	Variation in supply parameters	12
5.8	Reproducibility	12
5.9	Cold (operational)	13
5.10	Dry heat (endurance)	14
5.11	Damp heat, cyclic (operational)	15
5.12	Damp heat, steady state (endurance)	16
5.13	Sulfur dioxide (SO ₂) corrosion (endurance)	17
5.14	Shock (operational)	18
5.15	Impact (operational)	19
5.16	Vibration, sinusoidal (operational)	20
5.17	Vibration, sinusoidal (endurance)	21
5.18	Electromagnetic compatibility (EMC), immunity tests (operational)	22
6	Additional tests for detectors with class suffixes	23
6.1	Plunge test for suffix-S detectors	23
6.2	Test for suffix-R detectors	24
7	Test report	25
Annex A (normative) Heat tunnel for response time and response temperature measurements		26
Annex B (informative) Construction of the heat tunnel		27
Annex C (informative) Derivation of upper and lower limits of response times		29
Annex D (informative) Apparatus for impact test		32