

ISO 7240-5:2012-06 (E)

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

Contents

Page

Foreword	iv
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 General requirements	2
4.1 Compliance	2
4.2 Classification	2
4.3 Position of heat sensitive elements	3
4.4 Individual alarm indication	3
4.5 Connection of 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	9
5.3 Static response temperature	9
5.4 Response times from typical application temperature	10
5.5 Response times from 25 °C	10
5.6 Response times from high ambient temperature (dry heat operational)	11
5.7 Variation in supply parameters	11
5.8 Reproducibility	12
5.9 Cold (operational)	12
5.10 Dry heat (endurance)	13
5.11 Damp heat, cyclic (operational)	14
5.12 Damp heat, steady-state (endurance)	15
5.13 Sulfur dioxide (SO ₂) corrosion (endurance)	16
5.14 Shock (operational)	17
5.15 Impact (operational)	18
5.16 Vibration, sinusoidal (operational)	19
5.17 Vibration, sinusoidal (endurance)	20
5.18 Electromagnetic compatibility (EMC) immunity tests (operational)	21
6 Additional tests for detectors with class suffixes	22
6.1 Test for suffix S detectors	22
6.2 Test for suffix R detectors	23
Annex A (normative) Heat tunnel for response time and response temperature measurements	25
Annex B (informative) Information concerning the construction of the heat tunnel	26
Annex C (informative) Derivation of upper and lower limits of response times	29

Annex D (informative) Apparatus for impact test	32
Bibliography	34