

DIN EN 54-28:2016-07 (E)

Fire detection and fire alarm system - Part 28: Non-resettable line-type heat detectors

Contents		Page
European foreword		4
Introduction		6
1	Scope	7
2	Normative references	7
3	Terms, definitions and abbreviations	8
3.1	Terms and definitions	8
3.2	Abbreviations	9
4	Product characteristics	9
4.1	General	9
4.2	Nominal activation conditions/sensitivity	9
4.3	Operational reliability	10
4.4	Tolerance to supply voltage	12
4.5	Performance parameters under fire condition	12
4.6	Durability of Performance parameters under fire condition	12
5	Testing, assessment and sampling methods	14
5.1	General	14
5.2	Test procedures nominal activation conditions/sensitivity	18
5.3	Test procedures operational reliability	18
5.4	Tolerance to supply parameters	20
5.5	Performance parameters under fire condition	20
5.6	Durability of performance parameters under fire condition	21
6	Assessment and Verification of Constancy of Performance (AVCP)	38
6.1	General	38
6.2	Type testing	38
6.3	Factory Production Control (FPC)	40
7	Classification and designation	45
8	Marking, labelling and packaging	45
8.1	Marking, labelling	45
8.2	Packaging	46
Annex A (normative) Mounting of the sensing element of NLTHD in the heat tunnel		47
A.1	General	47
A.2	Mounting arrangement of sensing element	47
Annex B (normative) Heat tunnel for response temperature measurements		49
B.1	General	49
B.2	Description of the heat tunnel	49
Annex C (informative) Construction of the heat tunnel		50
C.1	General	50

C.2	Heat tunnel construction	50
	Annex D (normative) Test arrangement for vibration tests for sensing element	52
	EN 54-28:2016 (E) D.1 General	52
D.2	Test setup	52
	Annex E (normative) Test apparatus for impact test on the sensing element	53
E.1	General	53
E.2	Test apparatus	53
E.3	Test setup	53
	Annex ZA (informative) Clauses of this European Standard addressing the provisions of the EU Construction Products Regulation	56
	Bibliography	66