ISO 7240-18:2017-09 (E)

Fire detection and alarm systems - Part 18: Input/output devices

Contents

Page

Foreword v

Introduction vi

1 Scope 1

2 Normative references 1

3 Terms,definitionsandabbreviatedterms 1
3.1 Terms and definitions 2
3.2 Abbreviated terms 2

4 Requirements 2
4.1 Compliance 2
4.2 Monitoring of detachable devices 2
4.3 Requirements for software controlled devices 3
4.3.1 General 3
4.3.2 Software design 3
4.3.3 Storage of programs and data 3

5 Tests 3
5.1 General 3
5.1.1 Atmospheric conditions for tests 3
5.1.2 Mounting arrangements 3
5.1.3 Operating conditions for tests 4
5.1.4 Tolerances 4
5.1.5 Functional test 4
5.1.6 Provision for tests 4
5.1.7 Test schedule 4
5.2 Performance and variation in supply parameters 5
5.2.1 Object of test 5
5.2.2 Test procedure 5
5.2.3 Requirements 5
5.3 Dry heat (operational) 5
5.3.1 Object of test 5
5.3.2 Test procedure 6
5.3.3 Requirements 6
5.4 Cold (operational) 6
5.4.1 Object of test 6
5.4.2 Test procedure 6
5.4.3 Requirements 7
5.5 Damp heat, cyclic (operational) 7
5.5.1 Object of test 7
5.5.2 Test procedure 7
5.5.3 Requirements 8
5.6 Damp heat, steady-state (endurance) 8
5.6.1 Object of test 8
5.6.2 Test procedure 8
5.6.3 Requirements 9
5.7 Sulfur dioxide (SO2) corrosion (endurance) 9
5.7.1 Object of test 9
5.7.2 Test procedure 9

5.7.3 Requirements 10
5.8 Shock (operational) 10
5.8.1 Object of test 10
5.8.2 Test procedure 10
5.8.3 Requirements 11
5.9 Impact (operational) 11
5.9.1 Object of test 11
5.9.2 Test procedure 11
5.9.3 Requirements 12
5.10 Vibration, sinusoidal (operational) 12
5.10.1 Object of test 12
5.10.2 Test procedure 12
5.10.3 Requirements 13
5.11 Vibration, sinusoidal (endurance) 13
5.11.1 Object of test 13
5.11.2 Test procedure 13
5.11.3 Requirements 14
5.12 Electromagnetic compatibility (EMC) immunity tests 14
5.12.1 Object of test 14
5.12.2 Test procedure 14
5.12.3 Requirements 14

6 Test report 14

7 Marking 15

8 Data 15
8.1 Hardware documentation 15
8.2 Software documentation 16