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

Systèmes de détection et d'alarme d'incendie —
Partie 18: Dispositifs d'entrée/sortie





COPYRIGHT PROTECTED DOCUMENT

© ISO 2017, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

| | Page |
|--|-----------|
| Foreword | v |
| Introduction | vi |
| 1 Scope | 1 |
| 2 Normative references | 1 |
| 3 Terms, definitions and abbreviated terms | 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 (SO ₂) 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 |