
Fire detection and alarm systems —
Part 23:
Visual alarm devices

Systèmes de détection et d'alarme d'incendie —
Partie 23: Dispositifs d'alarme visuels





COPYRIGHT PROTECTED DOCUMENT

© ISO 2013

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

	Page
Foreword	iv
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms, definitions and abbreviations	2
3.1 Terms and definitions.....	2
3.2 Abbreviations.....	3
4 Requirements	3
4.1 Compliance.....	3
4.2 Device class.....	3
4.3 Minimum and maximum effective light intensity.....	4
4.4 Light colour.....	4
4.5 Light pattern and frequency of flashing.....	4
4.6 Durability.....	4
4.7 Construction.....	4
4.8 Manufacturer's adjustments.....	5
4.9 On-site adjustment of mode or behaviour.....	5
4.10 Marking and data.....	5
4.11 Additional requirements for software controlled visual alarm devices.....	7
4.12 Synchronization — Optional function.....	8
5 Tests	8
5.1 General.....	8
5.2 Reproducibility.....	10
5.3 Variation of effective luminous intensity.....	11
5.4 Operational performance.....	11
5.5 Durability.....	12
5.6 Dry heat (operational).....	12
5.7 Dry heat (endurance).....	13
5.8 Cold (operational).....	14
5.9 Damp heat, cyclic (operational).....	15
5.10 Damp heat, steady-state (endurance).....	16
5.11 Damp heat, cyclic (endurance).....	17
5.12 Sulfur dioxide (SO ₂) corrosion (endurance).....	18
5.13 Shock (operational).....	19
5.14 Impact (operational).....	20
5.15 Vibration, sinusoidal (operational).....	21
5.16 Vibration, sinusoidal (endurance).....	22
5.17 Electromagnetic compatibility (EMC), immunity (operational).....	23
5.18 Enclosure protection.....	24
5.19 Flash synchronisation testing (optional function).....	26
6 Test report	27
Annex A (normative) Method for measuring the light distribution from a visual alarm device	29
Annex B (normative) Comparative light output level measurement for visual alarm devices	36
Annex C (informative) Construction of the light test chamber and associated equipment for comparative measurements	38
Annex D (informative) Comparison of flammability test requirements	40
Bibliography	42