

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Live working – Voltage detectors –
Part 1: Capacitive type to be used for voltages exceeding 1 kV a.c.**

**Travaux sous tension – Détecteurs de tension –
Partie 1: Type capacitif pour usage sur des tensions alternatives de plus de 1 kV**



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CONTENTS

FOREWORD.....	4
INTRODUCTION.....	6
1 Scope.....	7
2 Normative references	7
3 Terms and definitions	8
4 Requirements.....	12
4.1 General requirements.....	12
4.1.1 Safety.....	12
4.1.2 Indication.....	12
4.2 Functional requirements	12
4.2.1 Clear indication	12
4.2.2 Clear perceptibility.....	13
4.2.3 Temperature and humidity dependence of the indication	14
4.2.4 Frequency dependence	14
4.2.5 Response time	14
4.2.6 Power source dependability.....	14
4.2.7 Testing element.....	14
4.2.8 Non-response to d.c. voltage.....	15
4.2.9 Time rating	15
4.3 Electrical requirements.....	15
4.3.1 Insulating material.....	15
4.3.2 Protection against bridging.....	15
4.3.3 Resistance against sparking.....	15
4.4 Mechanical requirements.....	15
4.4.1 Design.....	15
4.4.2 Dimensions, construction.....	16
4.4.3 Grip force and deflection	17
4.4.4 Vibration resistance.....	17
4.4.5 Drop resistance	17
4.4.6 Shock resistance	17
4.5 Markings	17
4.6 Instructions for use.....	18
5 Specific requirements	18
5.1 For insulating element of a voltage detector as a complete device.....	18
5.1.1 Dielectric strength	18
5.1.2 Leakage current	18
5.2 For indicator casing of voltage detector as a separate device.....	18
6 Tests.....	18
6.1 General.....	18
6.1.1 Tests under wet conditions	19
6.1.2 Type test	19
6.1.3 Test methods.....	20

6.2	Function tests.....	20
6.2.1	Clear indication	20
6.2.2	Clear perceptibility of visual indication.....	23
6.2.3	Clear perceptibility of audible indication.....	24
6.2.4	Frequency dependence	25
6.2.5	Response time	26
6.2.6	Power source dependability.....	26
6.2.7	Check of testing element	26
6.2.8	Non-response to d.c. voltage	27
6.2.9	Time rating	27
6.3	Dielectric tests	27
6.3.1	Protection against bridging for indoor/outdoor type voltage detector	27
6.3.2	Protection against bridging for outdoor type voltage detector.....	29
6.3.3	Spark resistance.....	30
6.4	Mechanical tests	31
6.4.1	Visual and dimensional inspection	31
6.4.2	Grip force and deflection (only applicable for voltage detector as a complete device).....	31
6.4.3	Vibration resistance.....	32
6.4.4	Drop resistance	32
6.4.5	Shock resistance	32
6.4.6	Climatic dependence	33
6.4.7	Durability of markings.....	33
7	Specific tests.....	34
7.1	Leakage current for voltage detector as a complete device.....	34
7.1.1	Leakage current under dry conditions	34
7.1.2	Leakage current under wet conditions (for outdoor type only)	34
8	Conformity assessment of voltage detectors having completed the production phase.....	35
	Annex A (normative) Suitable for live working; double triangle	51
	Annex B (normative) Instructions for use	52
	Annex C (normative) Chronology of type tests	53
	Annex D (normative) Classification of defects and tests to be allocated	55
	Annex E (normative) Mechanical shock tests – Pendulum method	57
	Annex F (<i>Deleted</i>).....	59
	Annex G (informative) In-service care	60
	Bibliography.....	62

INTERNATIONAL ELECTROTECHNICAL COMMISSION

LIVE WORKING – VOLTAGE DETECTORS –**Part 1: Capacitive type to be used for voltages
exceeding 1 kV a.c.**

FOREWORD

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International Standard IEC 61243-1 has been prepared by IEC technical committee 78: Live working.

This edition includes the following major technical changes from the previous edition:

- a) the Scope has been extended to cover the use on electrical systems for voltages up to 765 kV a.c.;
- b) the notion of family of voltage detectors which are identical in terms of design and dimensions and only differ by their nominal voltages (or nominal voltage ranges) has been included;
- c) the classification in terms of the setting of the threshold voltage to give a clear indication has been eliminated;
- d) a new test set-up with bars has been introduced. Depending on the nominal voltage of the voltage detector, it is required or becomes an alternative test set-up for checking the influence of interference fields, the influence of interference voltages, the protection against bridging and the spark resistance;

- e) the revision of specific dielectric tests has been included;
- f) some test procedures (clear perceptibility of audible indication, drop resistance, climatic dependence) have been improved and completed.

This consolidated version of IEC 61243-1 consists of the second edition (2003) [documents 78/527/FDIS and 78/537/RVD], its amendment 1 (2009) [documents 78/751/CDV and 78/794/RVC] and its corrigendum of October 2005.

The technical content is therefore identical to the base edition and its amendment and has been prepared for user convenience.

It bears the edition number 2.1.

A vertical line in the margin shows where the base publication has been modified by amendment 1.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

IEC 61243 consists of the following parts, under the general title *Live working – Voltage detectors*:

Part 1: Capacitive type to be used for voltages exceeding 1 kV a.c.

Part 2: Resistive type to be used for voltages of 1 kV to 36 kV a.c.

Part 3: Two-pole low-voltage type

Part 5: Voltage detecting systems (VDS)

The committee has decided that the contents of the base publication and its amendments will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

INTRODUCTION

This International Standard has been prepared according to the requirements of IEC 61477, where applicable.

Withdrawn