

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Piezoelectric sensors –
Part 3: Physical sensors**

**Capteurs piézoélectriques –
Partie 3: Capteurs physiques**





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INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

ICS 31.140

ISBN 978-2-8322-8742-2

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PIEZOELECTRIC SENSORS –**Part 3: Physical sensors****FOREWORD**

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The text of this International Standard is based on the following documents:

CDV	Report on voting
49/1333/CDV	49/1343/RVC

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

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

A list of all part in the IEC 63041 series, published under the general title *Piezoelectric sensors*, can be found on the IEC website.

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PIEZOELECTRIC SENSORS –

Part 3: Physical sensors

1 Scope

This part of IEC 63041 is applicable to piezoelectric physical sensors mainly used in the field of process control, wireless monitoring, dynamics, thermodynamics, vacuum engineering and environmental sciences. This document provides users with technical guidelines as well as basic knowledge of common physical sensors.

Piezoelectric sensors covered herein are those applied to the detection and measurement of physical quantities such as force, pressure, torque, viscosity, temperature, film thickness, acceleration, vibration, and tilt angle.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60027 (all parts), *Letter symbols to be used in electrical technology*

IEC 60050-561, *International electrotechnical vocabulary – Part 561: Piezoelectric, dielectric and electrostatic devices and associated materials for frequency control, selection and detection*

IEC 60617:2012, *Graphical symbols for diagrams* (database available at <http://std.iec.ch/iec60617>)

IEC 63041-1:2017, *Piezoelectric sensors – Part 1: Generic specifications*

IEC 63041-2, *Piezoelectric sensors – Part 2: Chemical and biochemical sensors*

ISO 80000-1, *Quantities and units – Part 1: General*

3 Terms, definitions, symbols and units

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60027 (all parts), IEC 60050-561, IEC 60617, IEC 63041-1, IEC 63041-2 and ISO 80000-1 and the following apply.

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