

STN	Konektory na termoelektrické snímače	STN EN 50212 25 8338
------------	---	--

Connectors for thermoelectric sensors

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 08/20

Obsahuje: EN 50212:2020

Oznámením tejto normy sa od 09.03.2023 ruší
STN EN 50212 (25 8338) z augusta 2001

131438

EUROPEAN STANDARD

EN 50212

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2020

ICS 93.120

Supersedes EN 50212:1996 and all of its amendments
and corrigenda (if any)

English Version

Connectors for thermoelectric sensors

Connecteurs pour capteurs thermoélectriques

Steckverbindungen für Thermoelemente

This European Standard was approved by CENELEC on 2020-03-09. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents	Page
European foreword.....	3
1 Scope	4
2 Normative References	4
3 Terms and definitions	4
4 General	4
4.1 Connector types	4
4.1.1 Connectors with specified dimensional characteristics	4
4.1.2 Other connectors	4
4.2 Marking for identification and polarities	4
5 Electrical characteristics	5
5.1 Maximum allowable error when a temperature gradient is present	5
5.2 Contact quality stability test	6
5.3 Insulation resistance	6
5.4 Earth connection continuity	7
6 Dimensional characteristics	7
7 Physical characteristics	11
7.1 Housing	11
7.2 Metal parts (pin, socket contact) connected to the cables to be linked together	12
7.3 Connections	12
Bibliography	13
IEC 60584.s	
Figure 1 — Test set up for insertion error verification	6
Figure 2 — A type connector with 2 pins	8
Figure 3 — A type connector with 3 pins	9
Figure 4 — B type connector with 2 pins	10
Figure 5 — B type connector with 3 pins	11
Tables	
Table 1 — Marking of thermocouple types	5
Table 2 — Materials of thermocouple types	12

European foreword

This document (EN 50212:2020) has been prepared by CLC/TC 65X "Industrial-process measurement, control and automation".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2021-03-09
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2023-03-09

This document supersedes EN 50212:1996 and all of its amendments and corrigenda (if any).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

1 Scope

The object of this document is to determine the composition, nature of materials, manufacturing tests and thermoelectronic behaviour of connectors for sensors using thermocouples according to EN 60584-3:2008.

This document does not cover such special thermocouples as U, L and W types; nevertheless, the user of such special thermocouples can use the connectors described hereafter with some restrictions mentioned in the relevant paragraphs.

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 60584 (series), *Thermocouples*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN