

INTERNATIONAL STANDARD

ISO
10455

First edition
1992-11-15

Road vehicles — Dry ignition coils using rotating high-voltage distributor

*Véhicules routiers — Bobines d'allumage "sèches" utilisant un
distributeur haute tension rotatif*



Reference number
ISO 10455:1992(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 10455 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Sub-Committee SC 1, *Ignition equipment*.

Road vehicles — Dry ignition coils using rotating high-voltage distributor

1 Scope

This International Standard specifies the dimensions of dry ignition coils using a rotating high-voltage distributor. It applies to ignition systems for spark-ignited internal combustion engines of road vehicles.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 3553-1:1987, *Road vehicles — High-tension connections for ignition coils and distributors — Part 1: Socket-type.*

ISO 3553-2:1987, *Road vehicles — High-tension connections for ignition coils and distributors — Part 2: Plug-type.*

ISO 8092-1:1989, *Road vehicles — Flat, quick-connect terminations — Part 1: Tabs for single pole connections.*

ISO 8092-2:1988, *Road vehicles — Flat, quick-connect terminations — Part 2: Tests and performance requirements for single pole connections.*

3 Dimensions

3.1 Shape and connections

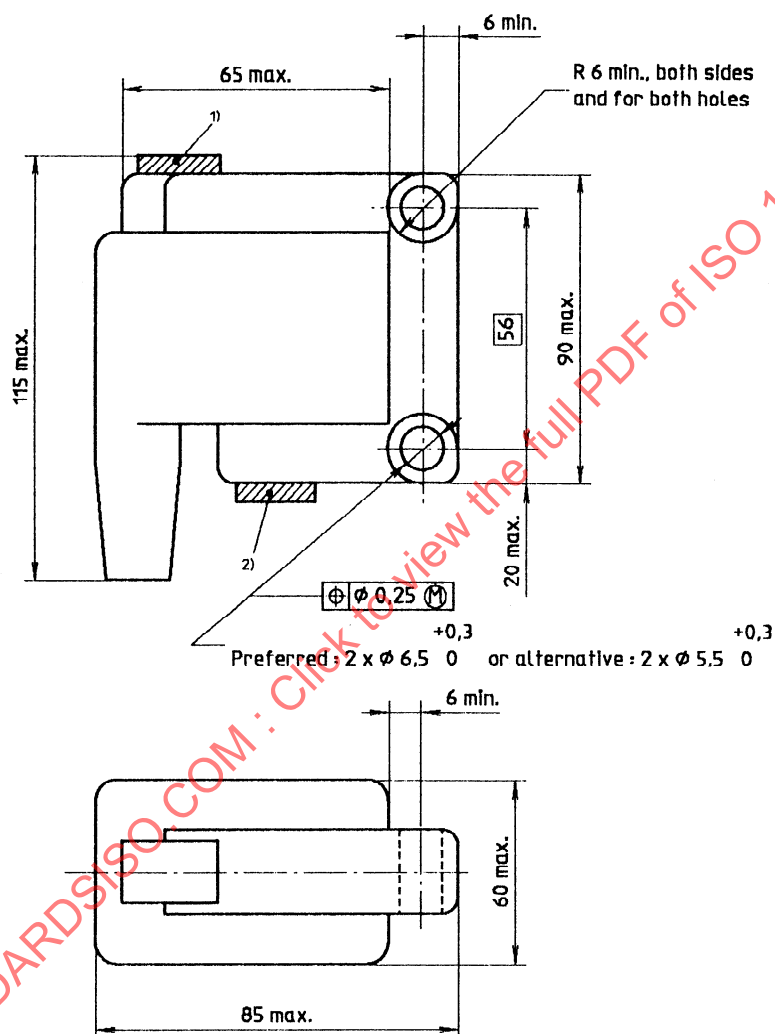
The general shape of the ignition coil is left to the manufacturer's discretion.

The high-voltage connections of each coil type may be either of the socket type A specified in ISO 3553-1 or of the plug type C specified in ISO 3553-2, as agreed between car manufacturer and supplier.

3.2 Dry ignition coil with two fixing holes

A dry ignition coil with two fixing holes shall be as shown in figure 1.

Dimensions in millimetres

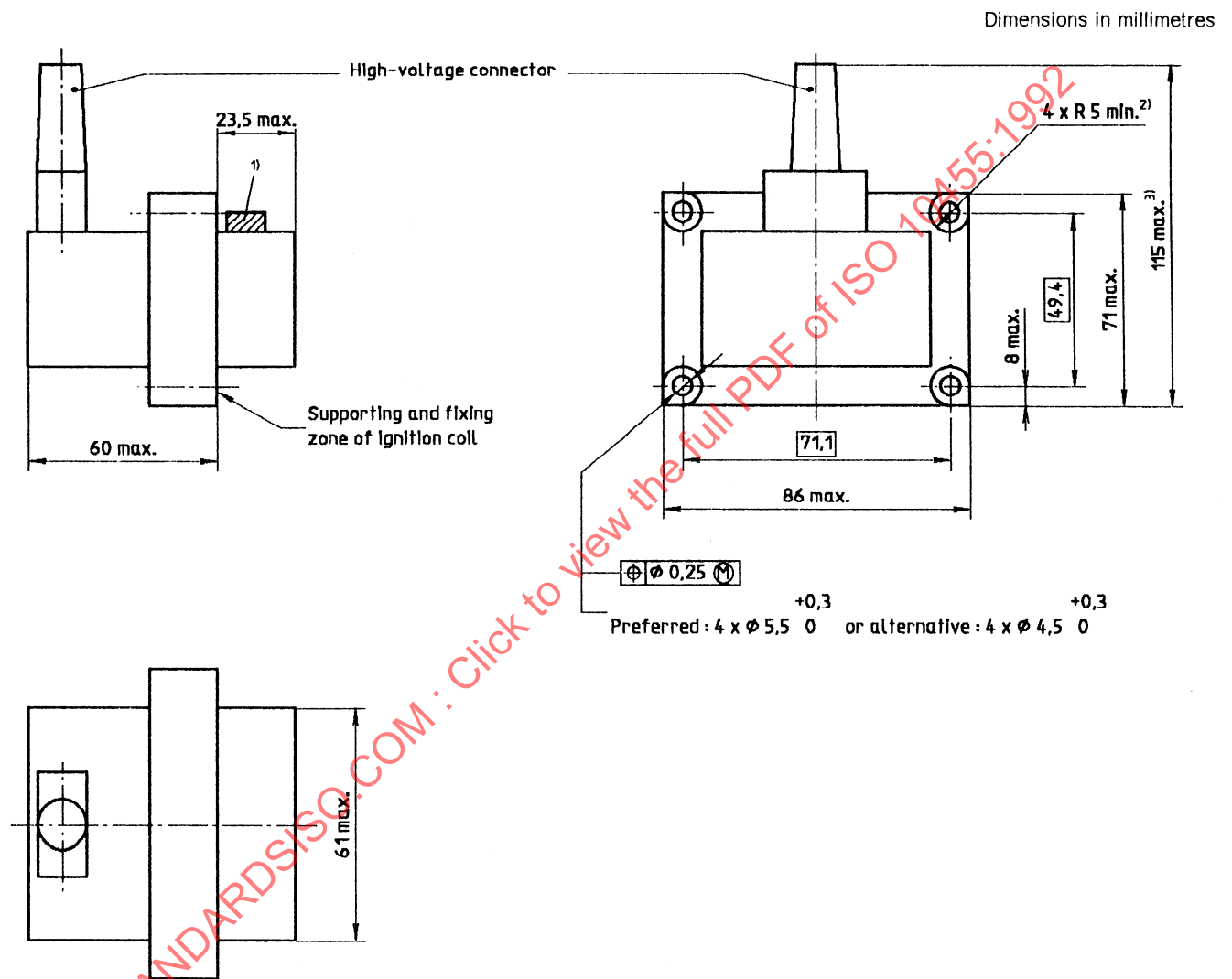


- 1) Preferred location of low-voltage connectors.
2) Non-preferred location of low-voltage connectors.

Figure 1 — Dry ignition coil with two fixing holes

3.3 Dry ignition coil with four fixing and/or positioning holes

A dry ignition coil with four fixing and/or positioning holes shall be as shown in figure 2.



- 1) Low-voltage connectors.
- 2) Flat planes provided for the fixation system.
- 3) This dimension contains the high-voltage connector.

Figure 2 — Dry ignition coil with four fixing and/or positioning holes

3.4 Dry ignition coil with mounting brackets

3.4.1 Mounting brackets

The mounting bracket holes may be open or closed slots, or one circular and the other slotted. Slotted holes can either be aligned on the same axis or have axes that are perpendicular to each other. See figure 3 and table 1.

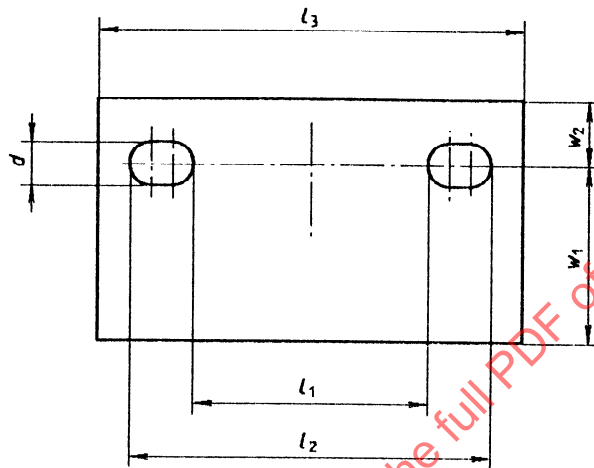


Figure 3 — Mounting bracket

Table 1

Dimensions in millimetres

Type	l_1 max.	l_2	l_3 max.	w_1 max.	w_2 max.	d $\pm 0,5$
A1	57	83	100	50	30	7
A2						9
B1	105	125	142	71	30	7
B2						9

NOTE — A1 and B1 are the preferred types.

3.4.2 Overall dimensions

A dry ignition coil with mounting brackets shall be as shown in figure 4 and table 2.

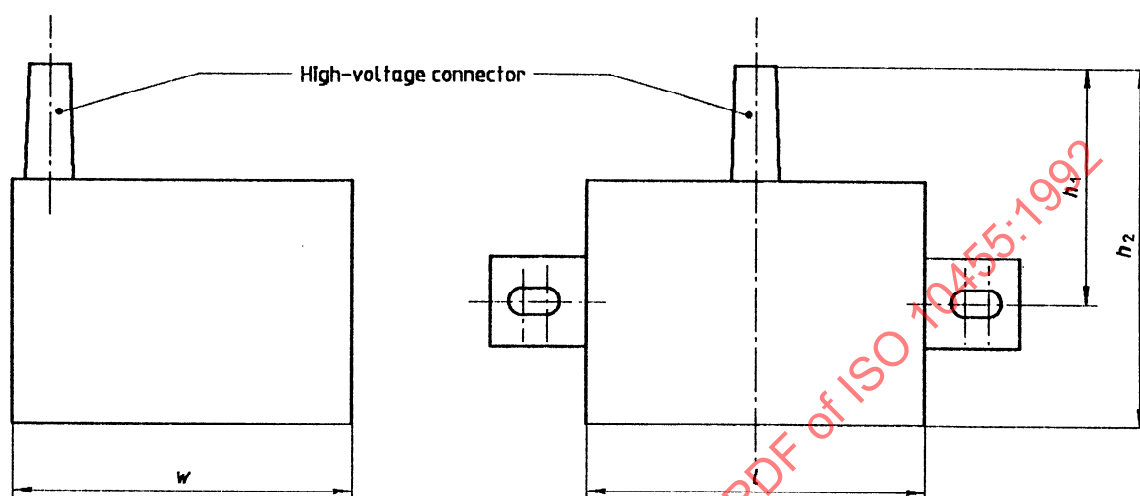


Figure 4 — Overall dimensions of ignition coil with mounting brackets

Table 2

Dimensions in millimetres

Type	h_1 max.	h_2 max.	l max.	w max.
A	65	115	74	90
B	65	115	86	90

4 Low-voltage connections

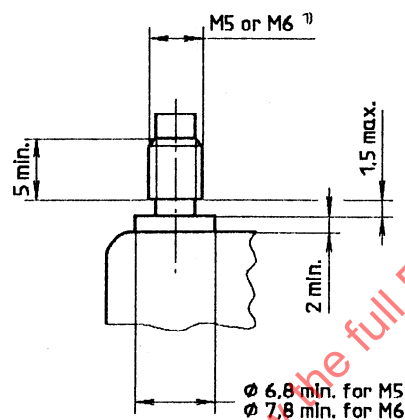
The number of permanent connections shall be a maximum of two for each polarity.

4.1 Connections with flat, quick-connect terminations

The characteristics of the flat, quick-connect terminations are specified in ISO 8092-1 and ISO 8092-2.

4.2 Connections with threaded terminations

Low-voltage connections with threaded terminations shall be as shown in figure 5.



- 1) M5 thread is assigned to the negative polarity.
M6 thread is assigned to the positive polarity.

Figure 5 — Connections with threaded terminations

4.3 Marking

The positive and negative polarity shall be permanently marked with “+” and “-”. This marking shall be in characters of at least 2 mm. Additional marking is allowed.

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