

4th edition, June 2004

Original

R

Signalling relays

Relais de signalisation

Signalrelais



UNION INTERNATIONALE DES CHEMINS DE FER
INTERNATIONALER EISENBAHNVERBAND
INTERNATIONAL UNION OF RAILWAYS



Documents

Document Sharing Hub

Leaflet to be classified in Volume :

VII - Way and Works

Application :

With effect from 1 June 2004

All members of the International Union of Railways

Record of updates

1st edition, January 1954	under the title: "Safety Relays - Essential characteristics of the different categories of relay used in safety installations".
2nd edition, January 1965	under the title: "Safety Relays - Essential characteristics of the different categories of direct current relays used in safety installations".
3rd edition, July 1974	under the title: "Signalling relays" including 1 amendment.
4th edition, June 2004	Overhaul of leaflet - Processing with Frame Maker.

The person responsible for this leaflet is named in the UIC Code

Contents

Summary	1
1 - Preliminary remarks.....	2
2 - Classification.....	3
3 - Essential characteristics of the relays and their construction.....	4
3.1 - Generic requirements for signalling relays	4
3.2 - Specific requirements	4
3.3 - Mechanical construction of the signalling relays.....	5
3.4 - Magnetic system.....	5
3.5 - Dielectric strength	6
3.6 - Contacts	7
Glossary	9
Bibliography	10

Summary

UIC Leaflet 736 gives a set of generic and specific requirements for signalling relays.

This leaflet introduces a set of recommended requirements for signalling relay characteristics, construction, magnetic system, contacts and insulation. Requirements are coordinated with present international standards on all-or-nothing relays.

Relays with the characteristics described in this leaflet are also known, outside railway signalling technology, as "relays with forcible guided (linked) contacts" (safety relays).

1 - Preliminary remarks

The following information is intended to serve as a basis for the various Railways for their specifications concerning direct current relays of signalling installations.

The characteristics described are valid for relays where the armature (see Glossary - page 9) and the contact system automatically revert to the de-energised position after interruption of the current in the coil.

The Railways will be able to determine the characteristics for relays with bistable behaviour on the basis of this leaflet.

Terms and definitions (see Glossary - page 9) used and applicable to this leaflet are included in the standards listed in the Bibliography - page 10, and in the International Electrotechnical Vocabulary (IEC 60050).