

Specification for

**Alternating-current
line relays
double-element
3-position (for railway
signalling)**

Co-operating organizations

The Electrical Industry Standards Committee,¹⁾ under whose supervision this British Standard was prepared, consists of representatives from the following Government departments and scientific and industrial organizations:—

- Admiralty
- Air Ministry
- Association of Consulting Engineers Incorporated
- Association of Supervising Electrical Engineers
- British Electrical and Allied Industries Research Association
- British Electrical and Allied Manufacturers' Association*
- British Electrical Development Association
- British Electricity Authority and Area Boards
- British Railways, The Railway Executive*
- Cable Makers' Association
- Crown Agents for the Colonies*
- Electric Lamp Manufacturers' Association.
- Electric Light Fittings Association
- Electrical Contractors Association (Incorporated)
- Electrical Contractors Association of Scotland
- Engineering Equipment Users' Association
- General Post Office
- Institution of Electrical Engineers*
- Ministry of Fuel and Power
- Ministry of Labour and National Service (Factory Department)
- Ministry of Supply
- Ministry of Works
- National Physical Laboratory
- North of Scotland Hydro-Electric Board
- Public Transport Association (Incorporated)
- Radio Industry Council

The Government department and scientific and industrial organizations marked with an asterisk in the above list, together with the following, were directly represented on the Committee entrusted with the preparation of this British Standard:—

- Federation of British Industries
- London Transport Executive
- Ministry of Transport
- Office of the High Commissioner for India
- Office of the High Commissioner for New Zealand
- National Union of Manufacturers
- Individual manufacturers of railway signalling apparatus

¹⁾ The Electrical Industry Standards Committee is the British National Committee of the International Electrotechnical Commission.

This British Standard, having been approved by the Electrical Industry Standards Committee and endorsed by the chairman of the Engineering Divisional Council, was published under the authority of the General Council on 15 June 1951

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Foreword

This standard makes reference to the following British Standard:—

BS 442, *Terminals for electrical apparatus for railway signalling purposes*.

This British Standard, which was first published in 1934, has been revised as part of a general revision of the series of British Standard specifications for relays for railway signalling.

The most important amendments are as follows:

The term “normal voltage” is no longer used in the standard, the term “rated voltage” having been substituted for it.

The standard no longer specifies carbon-to-carbon contacts, which are not now generally used. The former minimum drop-away value of 80 per cent of the pick-up voltage has now been reduced as a result of specifying tolerances for contact alignment.

The overload requirements now apply only to the control element and the former requirements for coil leads are now omitted.

A further change is that two standard types of contact equipment are now specified.

Attention is drawn to the desirability of avoiding any trace of sulphur (e.g. in dyed braiding) in the interiors of relays provided with silver contacts, in order to avoid the formation of silver sulphide.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 6, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.