

Specification for

Alternating-current relays for railway signalling —

Track relays (double-element,
2-position) —

Line relays (single-element,
2-position)

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	Electrical Contractors Association
Air Ministry	(Incorporated)
Association of Consulting Engineers	Electrical Contractors Association of Scotland
(Incorporated)	Engineering Equipment Users' Association
Association of Supervising Electrical Engineers	General Post Office
British Electrical and Allied Industries	Institution of Electrical Engineers*
Research Association	London Transport Executive
British Electrical and Allied Manufacturers'	Ministry of Fuel and Power
Association*	Ministry of Labour and National Service
British Electrical Development Association	(Factory Department)
British Electricity Authority and Area Boards	Ministry of Supply
British Railways, The Railway Executive*	Ministry of Works
Cable Makers' Association	National Physical Laboratory
Crown Agents for the Colonies	North of Scotland Hydro-Electric Board
Electric Lamp Manufacturers' Association	Public Transport Association (Incorporated)
Electric Light Fittings Association	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	Office of the High Commissioner for India
Institution of Railway Signal Engineers	Office of the High Commissioner for
London Transport Executive	New Zealand
Ministry of Transport	Individual manufacturers of railway signalling
National Union of Manufacturers	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 8 June 1951

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Foreword

This British Standard makes reference to the following British Standard:—

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

It has been found desirable to revise the series of British Standards for relays for railway signalling and the opportunity has been taken to combine in this standard the provisions of BS 520, "*Alternating-current track relays (double-element, 2-position)*" and BS 557, "*Alternating-current line relays (single-element, 2 position)*," since many of the provisions of these two standards were similar. This has necessitated some editorial changes, the most important being that 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.

A further change is that four standard relay arrangements and contact capacities are now specified.

A number of minor amendments have also been made.

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.