

Railway signalling symbols —

Part 1: Schematic symbols

Co-operating organizations

The Electrical Industry Standards Committee, 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:—

- London Transport Executive
- Ministry of Transport
- Manufacturers of railway signalling apparatus

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 10 July 1951

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Amendments issued since publication

Amd. No.	Date of issue	Comments
1271	September 1951	Indicated by a sideline in the margin

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Foreword

Part 1 of this British Standard, which was first issued in 1930, and revised in 1937, has now been revised again and extended.

For convenience of reference, the standard is issued in two parts, namely:

BS 376-1, *Schematic symbols*.

These are for use on general plans showing signalling requirements; they do not show the component parts of the apparatus to be used.

BS 376-2, *Wiring symbols and written circuits*.

These represent i) the actual apparatus used, with its electrical connections, and ii) simplified wiring diagrams.

In preparing the symbols an endeavour has been made to provide for apparatus in general use, and they have been so designed that they may be combined with each other where one does not adequately represent the complete device.

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 to iv, pages 1 to 31 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.

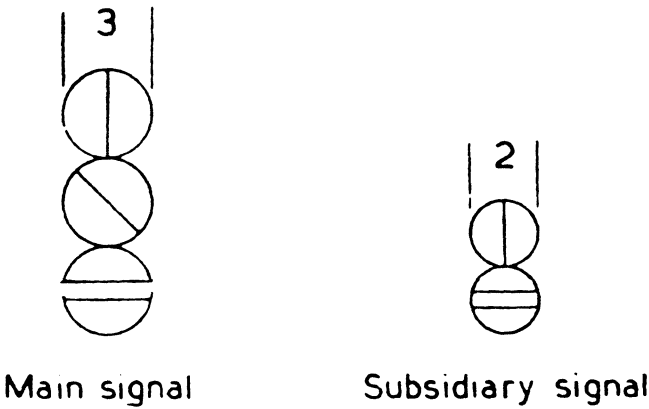
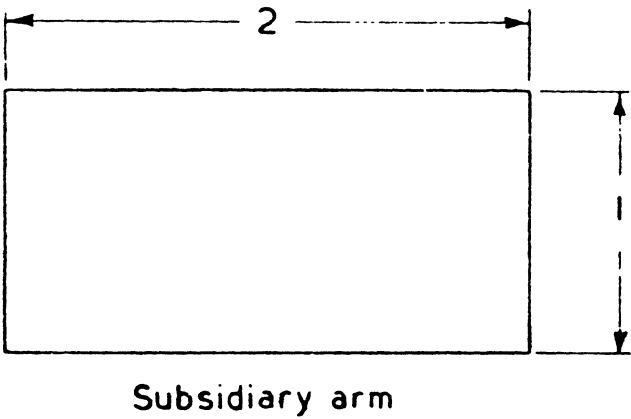
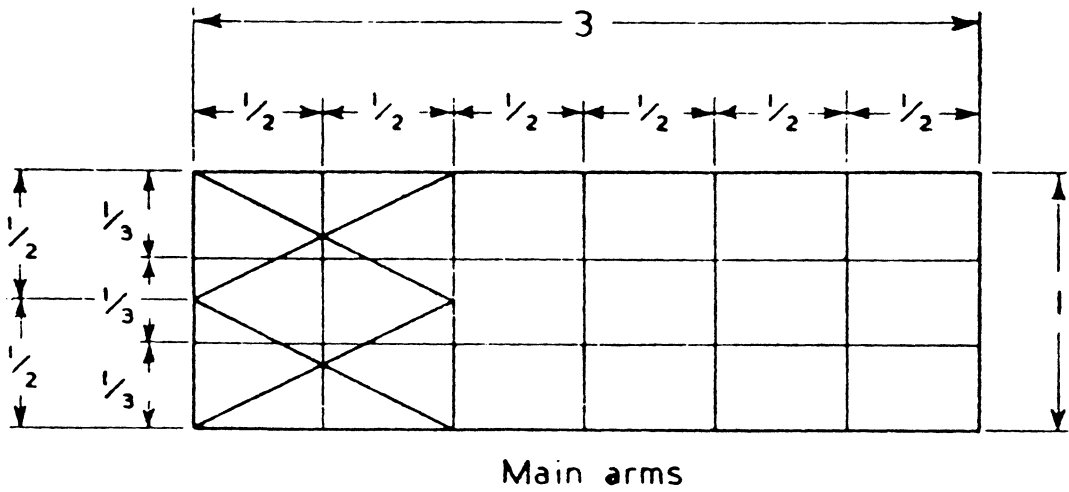
Arrangement of symbols

For convenience of reference the symbols are divided into sections and numbered as follows, some numbers being left in each section for the inclusion of additional symbols later if desired:—

Section 1	Signals	Nos. 1–64	Pages 1–11
Section 2	Points	Nos. 65–89	Pages 12–14
Section 3	Track details	Nos. 90–119	Pages 15–18
Section 4	Apparatus	Nos. 120–146	Pages 19–22
Section 5	Controls	Nos. 147–152	Pages 23–24
Section 6	Level crossing	Nos. 153–175	Pages 25–27
Section 7	Buildings	Nos. 176–180	Page 28

Diagrams showing proportions of semaphore arms

NOTE The following diagrams will assist in arriving at the correct proportions of semaphore arms, and illustrate the comparative sizes of main and subsidiary light signals. They may, of course, be drawn to any scale.



Light signals

Symbols for short range signals should be two-thirds of the size of symbols for long range signals.

Section 1. Signals

NOTE Arms should always be shown in the normal position. Dotted lines may be used to indicate positions in which a signal can be operated.

	Stop signal	Distant signal	Permissive signal
1. Mechanical ordinary			
2. Mechanical with electric replacer			
3. Power (all types)			
4.			
5.			
6. Fixed arm			
7. Special (requires reference to notes)			
8. Slot operated from another box			
9. Slot operated by stop signal ahead (Slot between "stop" and "distant" arms on the same post should not be shown)			
10. Multiple slotting One additional arm for each control, except for slot between "stop" and "distant" arms on the same post			
	Double	Treble	

NOTE In the following symbols the colours of lenses are indicated thus:—

Red (R)



Yellow (Y)



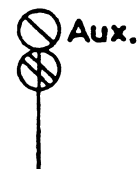
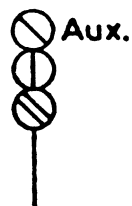
Green (G)



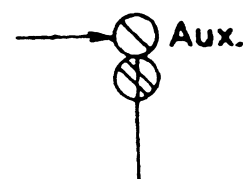
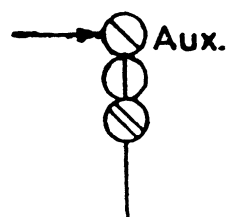
Other colours may be used, but a key diagram shall then be given. The normal aspect is shown by double lines. Any aspect not bearing double lines to be regarded as normally out.

If approach lighted, shade sectors as below				
	Normal red	Normal yellow	Normal double yellow	Normal green
11. Two aspect Multi-unit				
Single-unit searchlight				
12. Three aspect Multi-unit				
Single-unit searchlight				
13. Four aspect Multi-unit				
Fourth aspect used in conjunction with single-unit searchlight				

14. Auxiliary light indicated thus



If any aspect also acts as auxiliary, indicate thus



15. Slotted signals, colour light



or



16. Marker lights



17. Illuminated sign

NOTE Legend displayed to be shown in circle.

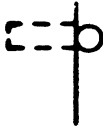
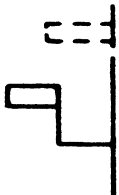


18. Traction system dead section indicator



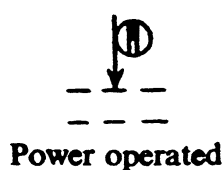
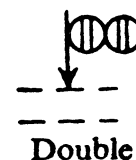
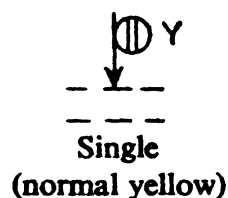
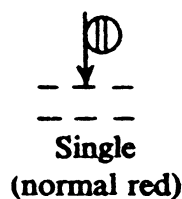
19. Banner signal



20.	Repeater signals			
	Repeating stop signal		or	
	Repeating caution signal		or	
21.	Fog repeater signals			
		2 aspect		3 aspect
22.	Signal lamp-intensified light			
	If intensified lighting is used in conjunction with spectacle only, add the appropriate aspect symbols in the circle.			
23.	Subsidiary signals			
	The letter in symbol is that to be displayed,			
	e.g. C — Call on S — Shunt ahead W — Warning			

24. Shunting signals

Mechanical (disk or dwarf)

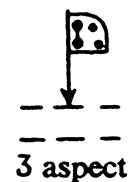
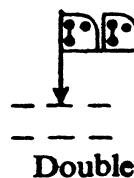
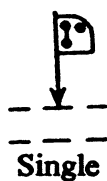


Shunting signals, colour light.

Indicate aspects as for colour light running signals but symbols to be smaller.

Shunting signals, position light.

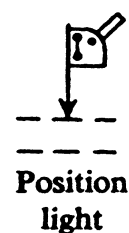
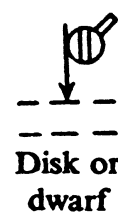
In the absence of a qualifying letter the normal aspect is red/white. In other cases add appropriate letter, e.g. "Y" for yellow/white or "W" for white/white.



All examples — Arrow indicates line to which applicable.

NOTE If aspects other than the above are required they should be specified.

25. Slotted signals, shunting



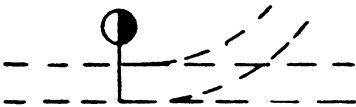
26.

27.

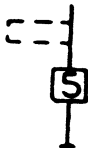
28.

29.

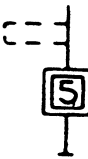
30. Point indicator



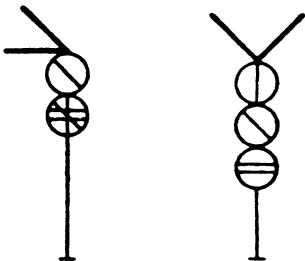
31. Route indicator signal
(Numeral indicates the total number of routes)



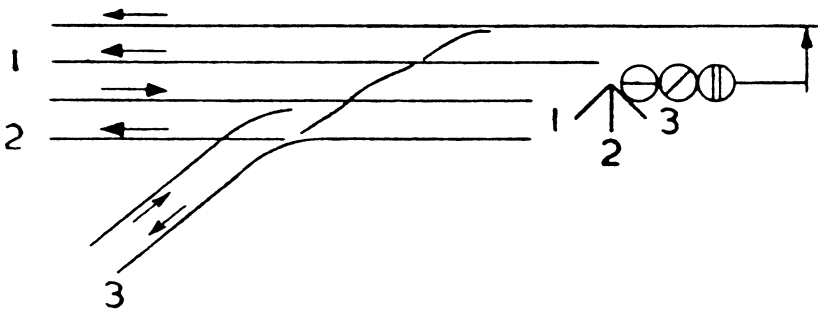
32. Route indicator signal, double sided



33. Junction indicator for use with colour light signal



Example:



34. Junction indicator
Repeater or subsidiary

