



BR 908
April 1991

Controlled Copy: 0142/01

Light Unit for use in Level Crossing Road Traffic Signals

Controlled Copy Number	

British Railways Board



Documents

Document Sharing Hub



The information contained in this document is confidential and must not be used reproduced copied or disclosed, other than for which this specification was released.

AMENDMENTS

Amd. No.	Date	Text Affected

British Railways Board

BRITISH RAILWAYS BOARD

SPECIFICATION No. BR 908

LIGHT UNIT

for use in

LEVEL CROSSING ROAD TRAFFIC SIGNALS

FOREWORD

This specification is issued by:-

British Railways Board,
Director of S & T. Engineering Department,
Materials Management Group,
Room 1103, Rail House,
Gresty Road,
CREWE CW2 6EA.

from whom copies may be obtained.

Technical queries shall be referred to:-

British Railways Board,
Director of S & T. Engineering Department,
Mechanical Equipment Group,
Macmillan House,
Paddington Station,
LONDON W2 1FT.

Telephone:- BT (STD) 071-922-6597
BR (ETD) 00-26597

REFERENCES

Reference in this specification is made to:-

British Railways Specifications

- BR 10 Painting Schedule for Signal Department Equipment
- BR 872 Flame Retardant Compound Insulated Cables for Railway Signalling
- Leaflet BRB Supplier Quality Assurance Requirements

British Standards

- BS 505 Road Traffic Signals
- BS 1490 Aluminium Alloys
- BS 2782 Part 1. Methods of Testing Plastics
- BS 5750 Quality Systems

Department of the Environment Specifications
MCG 0501 Environmental Tests

Department of Transport Documents
MCE 0102 Standard Traffic Signals (Amendments to BS 505)

BR908

1

April 1991



Documents

Document Sharing Hub

Where this specification requires reference to BR Specifications/Drawings, British Standards or DoE/DoT Documents, the latest issue shall apply unless specially stated.

1. SCOPE

- 1.1 This specification refers to the flashing red and steady amber light units as used in level crossing road traffic signals.
- 1.2 The optical performance required in this specification is identical to BS 505 with amendments as quoted in DoT Document MCE 0102 (Issue A, November 1987).

2. CONSTRUCTION

- 2.1 The units will be required to meet the environmental tests outlined in Department of Environment Specification MCG 0501 (Issue B, June 1973).
- 2.2 Each signal unit shall consist of a circular housing with a hinged front, for access to the interior, mounting a coloured lens/diffuser and a sighting hood generally in accordance with Appendix A; complete with a rigidly secured optical system and an adjustable rear mounting assembly.
- 2.3 The rear mounting assembly shall allow the unit to be firmly held in any sighting position within a solid angle of 45 degrees about the axis, normal to the fixing surface; fixing arrangements to be in accordance with Appendix B in order to conserve interchangeability with existing units.
- 2.4 The fastening for the hinged front shall be of the captive type.
- 2.5 The sighting hood to BRS-SE 196, which is necessary to reduce sun phantom, shall be manufactured from a material which is neither corrodible nor brittle and is of such form to resist deterioration over a temperature range of -25 to +70 degrees centigrade; it must also resist substantial distortion and not allow any permanent deformation in winds of up to 145 kilometres per hour and be secured with clamp type fixings to permit radial positioning according to the front hinge and sighting requirements.
- 2.6 The body and hinged rim shall be made from aluminium alloy to BS 1490, Grade LM6M or other approved non-corrodible material.
- 2.7 The reflector shall be of an anodised aluminium alloy of sufficient thickness to retain its shape during assembly, lamp changing and cleaning operations, and capable of satisfactory optical performance in the conditions defined for a period of not less than 15 years; mounting brackets must ensure the reflector is positioned centrally in accordance with Appendix A.