



**INDIAN RAILWAY
STANDARD SPECIFICATION
(TENTATIVE)
FOR
KEY. LOCK – 'E' TYPE**

**SPECIFICATION NO. IRS: S 30-64
Revision 0**

(Number of pages 08)

**SIGNAL DIRECTORATE
RESEARCH DESIGNS & STANDARDS ORGANISATION
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DOCUMENT DATA SHEET**DESIGNATION****IRS: S 30-64****Revision****0****TITLE OF DOCUMENT****Indian Railway Standard Specification for
KEY LOCK 'E' TYPE****Authors****Director/ Signal/ RDSO****Approved by****Sr. Executive Director/ Signal, RDSO****Abstract****This document specifies the technical requirements of Key Lock 'E' Type**

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AMENDMENTS

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GOVERNMENT OF INDIA**MINISTRY OF RAILWAYS**
(RAILWAY BOARD)

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INDIAN RAILWAY STANDARD SPECIFICATION
(Tentative)
for
KEY . LOCK - 'E' TYPE
Serial NO. S 30-64**0. FOREWORD**

- 0.1 This Specification is issued under the fixed Serial No. S-30, the final number indicates the year of original adoption as Standard or, in the case revision, the year of last revision.

ADOPTED, 1964

- 0.2 This Specification requires reference to the following Indian Rail way Standard Specification which shall also be complied with to the extent applicable:-

IRS S-10 Mechanical Signalling and Interlocking Equipment.

- 0.3 Whenever a reference to any Specification appears in this Specification, it should be taken as a reference to the latest issue of that Specification.
- 0.4 This Specification is intended chiefly to cover the technical provisions and the provision relating to the supply of materials and so does not include all the necessary provisions of a contract.

1. SCOPE

- 1.1 This specification covers requirements of Key-Lock 'E' Type, for use in Railway Signalling.

2. GENERAL REQUIREMENTS.

- 2.1 The key lock shall be such as to receive the key of an approved type.
- 2.2 It shall not be possible to insert and operate in the key lock any other key except the one for which the key lock is intended.
- 2.3 The key shall be provided with Ward, Lug and Feather of the type required by the purchaser. These shall be rounded at the ends, evenly cut, clearly defined and be free from burrs.
- 2.4 The engaging hole in each key shall be Central, Straight and parallel to the shank of the key.
- 2.5 The key lock shall be provided with at least three tumblers, whose arrangements shall depend on the ward combination.
- 2.6 The tumblers shall be of uniform thickness. The slots in the tumblers shall be accurately cut. The tumblers shall work without any appreciable friction.
- 2.7 The tumblers shall each bear a number punched on them to facilitate identification and easy assembly.
- 2.8 The springs shall be capable of providing sufficient force on the tumblers to prevent incorrect operation of the latter due to friction between the tumblers.
- 2.9 The key shall get locked in the key lock after it has been inserted and turned , and it shall not be possible to extract the key by jerks or any other irregular means, unless the lock bolt has completed its full stroke.
- 2.10 The design shall be such that it shall not be possible to operate the lock bolt without the help of the appropriate key.
- 2.11 The length of lock bolt shall be as specified.
- 2.12 The key lock shall be provided with a freely moveable lid, which will normally keep the key hole covered and prevent dust etc. from getting inside.
- 2.13 Facility shall be provided for sealing the key lock.
- 2.14 The key lock shall be supplied without key unless specified otherwise by the purchaser.
- 2.15 The key lock shall be provided with arrangements to enable it to be fixed rigidly on a base. Such arrangements should be inside the lock covers so that they cannot be tampered with.

3. MARKING.

- 3.1 The identification number of the key ward shall be stamped on the head of the key and on the front of the key lock so as to be easily visible.

4. IMPORTANT NOTE

- 4.1 Manufacture and Workmanship, Marking, Finish and Warranty shall be in accordance with the requirements under IRS –S.10.

APPENDIX.

Information to be supplied by the purchaser:-

If the key is required with the key lock, it shall be so stated. (clause 2.14).