

Chapter 21: Relay & Electronic Interlocking

Section 1: Design Criteria of Signalling Circuits

21.1.1 Circuits - General

- (a) The Detailed designs for circuits of interlocking may be required for;
 - (i) Route Setting Type i.e. on the basis of Entry/Exit principle.
 - (ii) Non-route Setting Type i.e. Route is set with individual operation of points for existing installations or alterations.
- (b) The designs shall be suitable for RE as per stipulations in [Chapter 22 of SEM](#) on "Requirements of signalling in 25 KV AC electrified areas".
- (c) The designs shall be in accordance with the approved signalling plans, Control Table, Control Panel diagram, Relay contact analysis and relay rack arrangements.
- (d) The designs shall be suitable for the specific type equipment to be installed such as Make of Electronic Interlocking (Distributed or Central), MSDAC, SSDAC, UFSBI, Block Working built into Electronic Interlocking etc and the type of Interfacing & features, they provide. Use of dual OFC in Distributed type of Electronic Interlocking, are desirable as they reduce extent of copper cables & provide an alternate path in case of Failures.
- (e) The drawings & designs shall be made in accordance with Typical templates, RDSO's Standard circuits/templates, guidelines, Board guidelines, Industry's best practices & principles of Reliability, Availability, Maintenance & Safety in mind.

21.1.2 Control Panels - General

- (a) The display of the layout on the front of the Control Panel referred to as the illuminated diagram shall be well proportioned. Where additional facilities are likely to be provided, domino type panel shall, preferably be used. The areas covered by each track circuit shall be clearly distinguished by use of different colours.
- (b) The operating members, namely route switches/buttons, point switches etc., referred to in the following clauses shall normally be provided on the illuminated diagram itself in Geographical order. A separate illuminated diagram for indication and a separate 'console' containing all the operating members may also be provided.
- (c) At Non-route setting type installations, the route may be set with individual operation of points.
- (d) The Route setting shall be on "Entry/Exit" principle for installations of Route Setting type. Each route shall be controlled by means of two push buttons - one at the entrance and the other at the exit of the route.

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Table of Contents Interlocking Relay Document

1. Understanding the eBook Interlocking Relay Document
 - The Rise of Digital Reading Interlocking Relay Document
 - Advantages of eBooks Over Traditional Books
2. Identifying Interlocking Relay Document
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Interlocking Relay Document
 - User-Friendly Interface
4. Exploring eBook Recommendations from Interlocking Relay Document
 - Personalized Recommendations
 - Interlocking Relay Document User Reviews and Ratings
 - Interlocking Relay Document and Bestseller Lists
5. Accessing Interlocking Relay Document Free and Paid eBooks

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- Interlocking Relay Document eBook Subscription Services
- Interlocking Relay Document Budget-Friendly Options
- 6. Navigating Interlocking Relay Document eBook Formats
 - ePub, PDF, MOBI, and More
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 - Interlocking Relay Document Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Interlocking Relay Document
 - Highlighting and Note-Taking Interlocking Relay Document
 - Interactive Elements Interlocking Relay Document
- 8. Staying Engaged with Interlocking Relay Document
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Interlocking Relay Document
- 9. Balancing eBooks and Physical Books Interlocking Relay Document
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Interlocking Relay Document
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Interlocking Relay Document
 - Setting Reading Goals Interlocking Relay Document
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Interlocking Relay Document
 - Fact-Checking eBook Content of Interlocking Relay Document
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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