

Features

Releasing control using the Simplex® 4100ES (or 4100U) Fire Alarm Control Panel to provide**:

- Coverage for multiple areas of Automatic Extinguishing Release and/or Deluge and Preaction Sprinkler System Release including audible escalation of events
- Control of compatible Listed/Approved 24 VDC automatic control actuators, one per circuit; or two 12 VDC actuators in series per circuit
- Releasing appliance circuits (RACs) by connecting Notification appliance circuits (NACs) to Suppression Release Peripherals for actuator supervision and control

Audible Escalation of Events:

- Temporal or 20 bpm March Time pattern for first cross-zone alarm
- 120 bpm March Time pattern to indicate releasing timer active
- On steady to indicate releasing timer expired and actuator is activated
- NOTE: Requires NACs dedicated to conventional horn control (not SmartSync™ operation) with strobes controlled on separate NACs

4090-9005/-9006 Suppression Release Peripheral (SRP) with Dual Command Control:

- Dual command control requires that both IDNet™ communications commands and an activated NAC are present to initiate the desired release
- NAC provides wiring supervision to the actuator including monitoring of coil continuity and short circuit supervision to the coil supervision module

Suppression Release Peripheral control features:

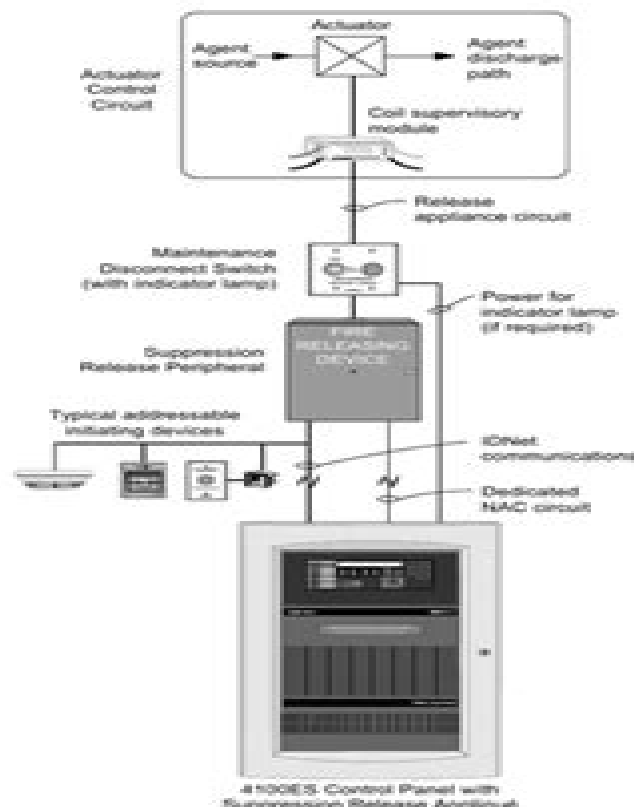
- An on-board DC-DC regulator compensates for voltage drops to the peripheral and ensures proper control circuit voltage over a wide operating range
- Provides a single RAC for control of actuators for up to 2 A using a 3 A NAC input (1 A using a 2 A NAC input)

Related system components:

- 4100ES Series control panel with Releasing Appliqué
- Dedicated NAC output from 4100ES (or compatible NAC Extender)
- Coil supervision module, one per RAC
- Maintenance Switch, one per RAC
- Abort Switch connected via an addressable interface module

UL listed to Standard 864

* This product has been approved by the California State Fire Marshal (CSFM) pursuant to Section 13144.1 of the California Insurance and Safety Code. See CSFM Listings 7185-0028/251 and 7305-0028/313 (SRP) for allowable values and/or conditions, concerning material presented in this document. It is subject to re-examination, revision, and possible cancellation. Additional listings may be applicable; contact your local Simplex product supplier for the latest status. Listings and approvals under Simplex Time Recorder Co. are the property of Tyco Safety Products, Westminster.



4100ES Series Releasing Control Typical Block Diagram

Introduction

When combined with Suppression Release Peripherals, the 4100ES series fire alarm control panel provides actuator supervision and control for use in automatic extinguishing, and deluge or preaction releasing systems. Hazard area initiating and notification devices are controlled using either conventional or addressable circuits per standard 4100ES capabilities. The necessary releasing system logic is implemented within the 4100ES control panel as required for the local application.

** Release Control operation described in this document is also available with 4100U Control Panels with software revision 11.05 or higher. Refer to data sheet S4100-0031 for model 4100ES control panel details including iDNet communications information.

Simplex 4002 Diagram

RD Boyd

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

Simplex 4002 Diagram:

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British Communications and Electronics ,1963-07 73 for Radio Amateurs ,1985-07 **The Wireless World** ,1975
Science Citation Index ,1992 Vols for 1964 have guides and journal lists **General Dictionary of Railway Terms**
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Table of Contents Simplex 4002 Diagram

1. Understanding the eBook Simplex 4002 Diagram
 - The Rise of Digital Reading Simplex 4002 Diagram
 - Advantages of eBooks Over Traditional Books
2. Identifying Simplex 4002 Diagram
 - 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 Simplex 4002 Diagram
 - User-Friendly Interface
4. Exploring eBook Recommendations from Simplex 4002 Diagram
 - Personalized Recommendations
 - Simplex 4002 Diagram User Reviews and Ratings
 - Simplex 4002 Diagram and Bestseller Lists
5. Accessing Simplex 4002 Diagram Free and Paid eBooks

- Simplex 4002 Diagram Public Domain eBooks
- Simplex 4002 Diagram eBook Subscription Services
- Simplex 4002 Diagram Budget-Friendly Options
- 6. Navigating Simplex 4002 Diagram eBook Formats
 - ePub, PDF, MOBI, and More
 - Simplex 4002 Diagram Compatibility with Devices
 - Simplex 4002 Diagram Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Simplex 4002 Diagram
 - Highlighting and Note-Taking Simplex 4002 Diagram
 - Interactive Elements Simplex 4002 Diagram
- 8. Staying Engaged with Simplex 4002 Diagram
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Simplex 4002 Diagram
- 9. Balancing eBooks and Physical Books Simplex 4002 Diagram
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Simplex 4002 Diagram
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Simplex 4002 Diagram
 - Setting Reading Goals Simplex 4002 Diagram
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Simplex 4002 Diagram
 - Fact-Checking eBook Content of Simplex 4002 Diagram
 - 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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