

INSTALLATION INSTRUCTIONS

MD-31DOW

Application:

The MD-31DOW combines a passive-infrared detector with relay output to allow control of door ingress and egress in request-to-exit (REX) applications. It is UL Listed as an access control device under the UL 294 standard. It is for indoor use only. MD-31DOW is not designed for use as the primary means of exit for emergency egress.

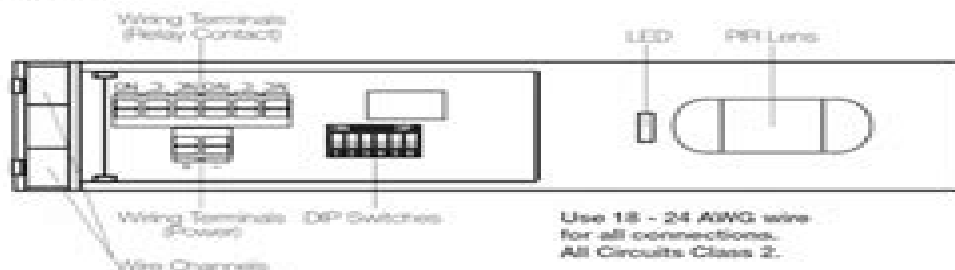
MD-31DOW can be ceiling or wall mounted over the door and the detection pattern can be tailored via vertical aim adjustment and/or masking of the detection pattern.

The relay outputs consist of two Form "C" contacts that can be re-adjusted to latch from 0.5-second to 64 seconds. Resettable or non-resettable can be selected for the latch time. The relay can also be programmed to fail safe (doors unlocked) or fail secure (doors locked) mode in the event of a power loss.

Product specifications:

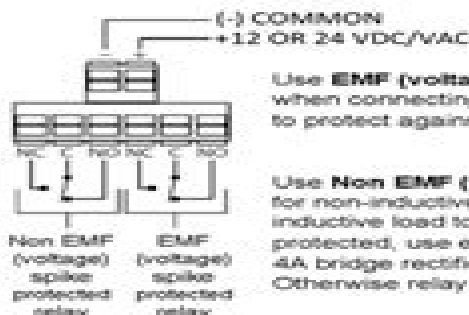
- Voltage input: 12 VDC or VAC; 24 VDC or 24VAC
- Current draw: 16mA @ 12VDC (see Current Ratings on page 4)
- NO INTERNAL BATTERY. Budget 38mAh per hour standby
- REX detector output: 2 Form C relay contacts rated 2A 30VDC/VAC maximum for DC resistive loads
- Indicator: Green LED for PIR detection
- Relay latch duration: Adjustable from 0.5 second to 64 seconds
- Timer modes: Selectable for resettable (cumulative) or non-resettable (counting)
- Power loss operation modes: Selectable for fail safe (doors unlocked) or fail secure (doors locked)
- Mounting locations: Above controlled door(s), on door frame, wall or ceiling
- Mounting height: 7' to 15'
- Housing: High Impact ABS plastic
- Dimensions: 7"W X 1.75"H X 1.88"D (178W X 44H X 48D mm)
- Operating temperature: -20°F to 120°F (-29°C to 49°C); RH: 0-85%
- RFI immunity: 26MHz to 1000 MHz @ 50 V/m (FOC)

Wiring:



All wiring connections should be made and verified before any power is connected to the detector. All power, including standby battery if used, should be disconnected.

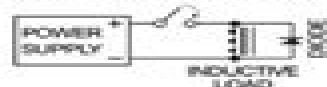
Connect wires to terminals as follows:



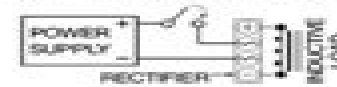
Use **EMF (voltage) spike-protected relay** when connecting inductive loads to the detector to protect against possible harmful EMF spikes.

Use **Non EMF (voltage) spike-protected relay** for non-inductive loads. When connecting an inductive load to this relay that is not spike protected, use either a 1KV 1A diode or 100V, 4A bridge rectifier (See illustration below). Otherwise relay life may be shortened.

NON EMF SPIKE-PROTECTED RELAY



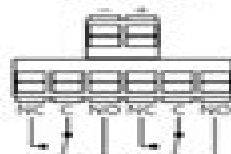
NON EMF SPIKE-PROTECTED RELAY



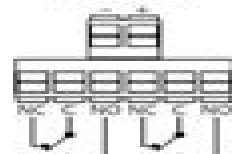
Most UL 1034 listed magnetic locks are already EMF spike-protected and therefore do NOT require a diode or bridge rectifier, and adding either could cause response delays. Check magnetic lock specifications.

Choose either Fail Safe or Fail Secure operation and wire to either EMF or Non EMF contacts as follows:

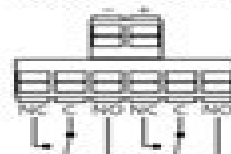
FAIL SAFE
(Switch 2 On)
Power OFF



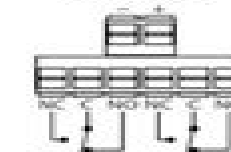
FAIL SAFE
(Switch 2 On)
No Motion



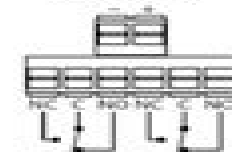
FAIL SAFE
(Switch 2 On)
Motion Detected



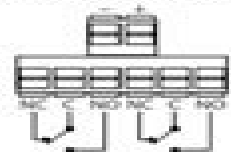
FAIL SECURE
(Switch 2 OFF)
Power OFF



FAIL SECURE
(Switch 2 OFF)
No Motion



FAIL SECURE
(Switch 2 OFF)
Motion Detected



Thomson Sdc Manual

Mark David Gottsegen



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Painter's Handbook Mark David Gottsegen, 2006-04-01 Much more than just another guide to artists materials The Painter's Handbook is an amazingly useful resource with information on everything from the canvas up the canvas itself plus paper sizes and grounds pigments and binders solvents and thinners varnishes and preservatives Dozens of step by step recipes for make it yourself paints pastels varnishes gessoes sizes supports and equipment take this indispensable guide way beyond the competition Authoritatively written by Mark David Gottsegen chair of the federal government's ASTM committee on artist's materials the revised Painter's Handbook considers the enormous changes in the art materials world since the first edition was published in 1993 New materials new health issues new information on outmoded and even harmful supplies and practices mean that every painter needs a copy of The Painter's Handbook **The Oxford Handbook of Sovereign**

Wealth Funds Douglas J. Cumming, Geoffrey Wood, Igor Filatotchev, Juliane Reinecke, 2017-10-26 Sovereign Wealth Funds SWFs represent both an increasingly important and potentially dominant category of alternative investor and a novel form for governments to project their interests both home and abroad As such they represent both economic actors and embody power vested in the financial and diplomatic resources they can leverage Although at times they have acted in concert with other alternative investors their intergenerational savings function should in theory at least promote more long termist thinking However they may be impelled in towards greater short termism in response to popular pressures demands from predatory elites and or unforeseen external shocks Of all the categories of alternative investment SWFs perhaps embody the most contradictory pressures making for diverse and complex outcomes The aim of this volume is to consolidate the present state of the art and advance the field through new applied conceptual and theoretical insights The volume is ordered into chapters that explore thematic issues and country studies incorporating novel insights in on the most recent developments in the SWF ecosystem This handbook is organized into four sections and 23 chapters The four sections are Governance of SWFs Political and Legal Aspects of SWFs Investment Choices and Structures of SWFs Country and Regional Analyses of SWFs

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 - The Rise of Digital Reading Thomson Sdc Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Thomson Sdc Manual
 - 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 Thomson Sdc Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Thomson Sdc Manual
 - Personalized Recommendations
 - Thomson Sdc Manual User Reviews and Ratings
 - Thomson Sdc Manual and Bestseller Lists
5. Accessing Thomson Sdc Manual Free and Paid eBooks
 - Thomson Sdc Manual Public Domain eBooks
 - Thomson Sdc Manual eBook Subscription Services
 - Thomson Sdc Manual Budget-Friendly Options
6. Navigating Thomson Sdc Manual eBook Formats

- ePub, PDF, MOBI, and More
- Thomson Sdc Manual Compatibility with Devices
- Thomson Sdc Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Thomson Sdc Manual
 - Highlighting and Note-Taking Thomson Sdc Manual
 - Interactive Elements Thomson Sdc Manual
- 8. Staying Engaged with Thomson Sdc Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Thomson Sdc Manual
- 9. Balancing eBooks and Physical Books Thomson Sdc Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Thomson Sdc Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Thomson Sdc Manual
 - Setting Reading Goals Thomson Sdc Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Thomson Sdc Manual
 - Fact-Checking eBook Content of Thomson Sdc Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
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