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Notifier nfs 320 manual en español

Notifier nfs 320 manual de programación en español. Notifier nfs-320 manual en español.

Fire Alarm Control Panel NFS-320/E/C Installation Manual Document 52745 7/1/14 Rev: P/N 52745:M2 ECN 13-838... Page 2 Adequate written records of all inspections should be kept. (especially in bedrooms), smoking in bed, and violent explosions Limit-D-1-2013 NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14... HARSH™, NIS™, and NOTI•FIRE•NET™ are all trademarks; and Acclimate® Plus, FlashScan®, NION®, NOTIFIER®, ONYX®, ONYXWorks®, UniNet®, VeriFire®, and VIEW® are all registered trademarks of Honeywell International Inc. Echelon® is a registered trademark and LonWorks™ is a trademark of Echelon Corporation.



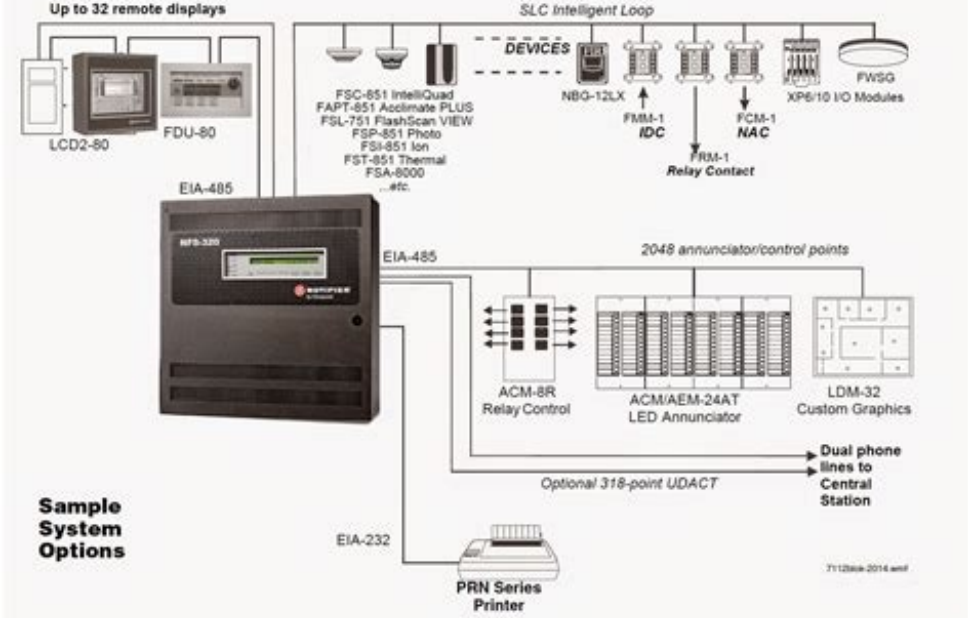
Page 4 •Brief description of content you think should be improved or corrected •Your suggestion for how to correct/improve documentation Send email messages to: FireSystems.TechPubs@honeywell.com Please note this email address is for documentation feedback only. If you have any technical issues, please contact Technical Services. NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14... 4.2: Devices Requiring External Power Supervision.....36 4.3: NFPA 72 Central or Remote Station Fire Alarm System (Protected Premises Unit)37 4.4: Central Station Fire Alarm System Canadian Requirements.....39 4.5: NFPA 72 Proprietary Fire Alarm Systems.....40 NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14... Page 6 A.3: Calculating the Battery Requirements56 A.3.1: Calculating the Battery Capacity56 A.3.2: Calculating the Battery Size57 Appendix B: Electrical Specifications 58 B.1: Electrical Specifications58 B.2: Wire Requirements.....60 Index62 NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14... The following products have not received UL 864 9th Edition certification and may only be used in retrofit applications. Operation of the NFS-320/E/C with products not tested for UL 864 9th Edition has not been evaluated and may not comply with NFPA 72 and/or the latest edition of UL 864. 1.4.1 Typographic Conventions NOTE: The term NFS-320 is used in this manual to refer to the NFS-320, and the NFS-320E and the NFS-320C, unless otherwise noted. NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14... Modular devices mount in the cabinet or in auxiliary backboxes to provide additional circuits. This system is available in either a 120 VAC or 240 VAC configuration. Cabinetry can be ordered in black or in red. The NFS-320/E/C chassis is removable, allowing work to be done outside the cabinet. FACP. 2.2.2 Control Panel Circuit Board The control panel electronics are contained in NFS-320 and its built-in power supply. The printed circuit board incorporates a signaling line circuit (SLC) and the central processing unit; the power supply has an integral battery charger. 2.2.3 Main Power Supply CPS-24/E The main power supply is an integral part of the NFS-320/E/C and mounts directly over the control panel's circuit board. It provides a total of 3.9 A (7.4 A in alarm) and contains an integral battery charger. The following three figures illustrate the location of the various connections, switches, jumpers and LEDs on the NFS-320 and its power supply. Figure 2.2 shows wiring connections; Figure 2.3 shows jumpers, LEDs and switches. See Section 3 "Installation" for larger images and more details.



Page 14 System Overview System Components Figure 2.3 NFS-320 and Power-Supply: Jumpers, LEDs and Switches NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14... Additional Options The NFS-320/E/C control panel provides space for one or two additional option boards to be installed, as shown in Figure 3.3 on page 21. The NFS-320C fulfills ULC annunciation requirements; see NFS-320C Canadian Applications Addendum for details. A variety of compatible annunciators are available with their own backboxes;... This product has been certified to comply with the requirements in the Standard for Control Units and Accessories for Fire Alarm Systems, UL 864 9th Edition. Operation of the NFS-320/E/C with products not tested for UL 864 9th Edition has not been evaluated and may not comply with NFPA 72 and/or the latest edition of UL 864. Page 17 A2143-00 End of Line Resistor Assembly EOLR-1 End-of-Line Resistor Assembly Retrofit Equipment: Compatible Notifier Equipment Listed Under Previous Editions of UL 864 NOTE: The products in this list have not received UL 864 9th Edition certification and may only be used in retrofit applications (see Section 1.2, "UL 864 Compliance", on page 8). • Applicable Local and State Building Codes. • Requirements of the Local Authority Having Jurisdiction. • C22.1-98 The Canadian Electrical Code, Part 1.

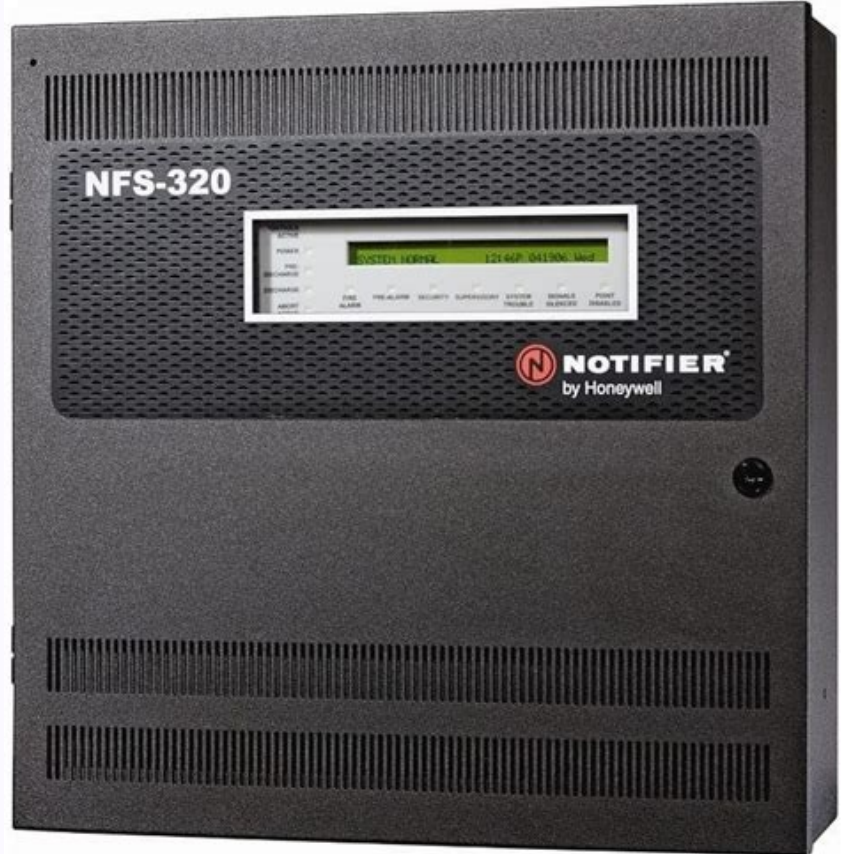


• CAN/ULC-S5524-01 Standard for the Installation of Fire Alarm Systems. NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14... Installation Checklist Installation 3.2 Installation Checklist Table 3.1 provides an installation checklist for installing, wiring, and testing the NFS-320/E/C system. It has references to installation information included in manuals listed in Section 1.3 "Related Documents". Task Refer to Mount the cabinet backbox to the wall. Feed wires through appropriate knockouts. 3.4 Installing Option Boards The NFS-320/E/C ships fully assembled with in its cabinet. One or two option boards can be mounted inside the NFS-320 cabinet, under the keypad, as shown in Figure 3.3. Option boards that can be installed internally include the wire and/or fiber versions of the NCM or HS-NCM, TM-4, and UDACT or UDACT-2. Page 21 Figure 3.3 Installing Option Boards CAUTION: It is critical that all mounting holes of the NFS-320/E/C are secured with a screw or standoff to insure continuity of Earth Ground. NOTE: It may be convenient to field-wire the SLC loop before installing any option boards, and to make wiring connections on the first option board before installing a second option board in front of it. Secondary power source - 24 VDC from batteries, installed in the control panel (or in an optional battery cabinet). Secondary (battery) power is required to support the system during loss of primary power. NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14... In an unconfigured system, the yellow Trouble indicator may come on for approximately 10 seconds after applying AC power. Each auxiliary power The yellow Trouble indicator comes on because batteries are not connected. supply Table 3.2 AC Power Checklist NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14... Initiating Device Circuit (IDC). The four-wire power circuit energizes the power supervision relay. When you reset the system, the control panel removes power from these terminals for approximately 15 seconds. NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14... 24 VDC Non-resettable Power Circuit The power supply provides one 24 VDC filtered, power-limited, non-resettable power output, capable of up to 1.25 A. Use this circuit to power devices that require low-noise 24 VDC power (such as Notifier annunciator model ACM-24AT or the transmitter module TM-4). NOTE: Any NAC can be programmed as a releasing circuit, and the releasing circuit must be supervised. For more information, refer to Section 4.7 "Releasing Applications" in this manual and the NFS-320/E/C Programming Manual. Refer to the Device Compatibility Document for UL-listed compatible releasing devices. Sample connections for NAC terminals are shown in Figure 3.8. These are power-limited only if connected to a power-limited source. Using VeriFire Tools, the Supervisory and Security contacts can also be configured as Alarm contacts. Follow instructions in the VeriFire Tools online help. Figure 3.11 Form-C Relay Connections NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14...



So, for example, if SW1 and SW4 were enabled at the time of an alarm during microcontroller failure, NAC#1 and NAC#4 would activate. Follow sequence of steps in Section 3.2 "Installation Checklist", Table 3.1. NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14... Use a power-limited source for relay output on terminals TB5 and TB4. See Figure 2.2, "NFS-320 and Power-Supply: Wiring Connections" on page 13 to identify power- limited and non-powerlimited circuits. NOTE: Drawing is not to scale; proportions and angles are exaggerated to show wire-placement more clearly. Construct cable as follows: Using overall foil/braided-shield twisted-pair cable, properly connect one end to the DB-25 Connector using the wiring specifications shown in the table below. (Custom cable kit P/N 90106 is provided.) NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14... Tighten securely. Note: Outputs are power-limited but are not supervised. DB-25 connector on PRN series printer (female socket shown) Terminate one end of shield at backbox Control Panel Figure 3.15 Remote Printer Connections NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14... Table 3.3 PRN Setup Options 3.11.3 Installing and Configuring a CRT-2 A CRT-2 can only be used in a non-networked application when used with the NFS-320/E/C. For further details on setting up the CRT-2, refer to the NFS-320/E/C Operations Manual. When finished programming all setup groups, press . Table 3.4 shows the standard settings for using the CRT-2 with the NFS-320/E/C; for one instance where these settings may change slightly see Section 3.11.4 "Connecting Multiple Printers, CRTs, or CRT/PRN Combination". Maximum wiring distance of an SLC using 12 AWG (3.31 mm) wire is 12,500 feet (3810 meters) total twisted-pair for Style 4, Style 6 and Style 7 circuits. Capacity The NFS-320/E/C provides one (1) SLC, with a total capacity of 318 intelligent/addressable devices: • 01-159 intelligent detectors • ... NOTE: Download operations that change the basic program of the control panel must be performed by responsible service personnel in attendance at the control panel. After downloading a program, test the control panel in accordance with NFPA 72. NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14... (Blank) • Nonreset Ctl • Gen Supervis • Strobe • Release Ckt • Alarms Pend • Gen Trouble • Horn • Rel Ckt Ulc • Gen Alarm • Gen Pend • Trouble Pend NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14... NOTE: This application can also be done with the TM-4 Transmitter; refer to the TM-4 Transmitter Module installation document for more details. NOTE: For additional setup information for the UDACT-2, refer to the UDACT-2 Instruction Manual. NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14... Page 38 Figure 4.2 Typical Wiring Diagram for a Central Station Fire Alarm System NOTE: Install a UL-listed 120 ohm End-of-Line resistor (P/N 71244) UDACT TB1 terminals 3 and 4 if this is the last or only device on EIA-485 line. NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14... LED100 A HI B HI LED6 LED7 RCDA RCDB LED4 LED2 STATA STATB LED3 LED5 RECON PULSE1 LED1 LED8 RESET POWER NCM-W TERM Figure 4.3 Central Station Canadian Requirements for Second Dial-Out Connection NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14... UDACT-2 Manual for compatible receiving units. A simplified drawing of connections between the receiving unit and

the NFS-320/E protected premises unit is shown in Figure 4.4. Connect the protected premises unit to the protected premises unit as shown in Section 4.3 “NFPA 72 Central or Remote Station Fire Alarm System (Protected Premises Unit)”. Fire/Security Applications Applications For bypass of security zones, use the DISABLE routine (covered in the Status Change section of the NFS-320/E/C Operations Manual) for Security type devices. WARNING: Damage can result from incorrect wiring connections. 4.6.2 Installing a Security Tamper Switch To wire the cabinet with a Security Tamper Switch kit model STS-200, refer to Figure 4.5:... NAC devices used for security cannot be shared with fire NAC devices. • Refer to the Device Compatibility Document for compatible NAC devices. • All monitor modules used for security application must be installed in the NFS-320/E cabinet with STS-1 Security Tamper Switch.



NFS-320/E Protected Premises Unit Channel...

Supervised for power loss with power. • Supervised for power loss with power. supervision relay, supervision relay.

For more information, refer to the NFS-320/E/C Programming Manual. 4.7.3 Wiring References to wiring diagrams for releasing applications: To connect Refer to A releasing device to the control panel. UL-listed 24 VDC appliances only. For more information on compatible appliances, refer to the Device Compatibility Document. Refer to the Releasing Applications appendix in the NFS-320/E/C Programming Manual for configuration details (such as setting the Soak Timer). For applications using power-limited circuits: a) Use an in-line supervisory device (P/N REL-2.2K) with control panel releasing circuits. Page 45 Use a monitor module to monitor dry contacts off the switch. See 4.11. Figure 4.8 Releasing Circuits (Option 1) Figure 4.9 Releasing Circuits (Option 2) Figure 4.10 Releasing Circuits (Option 3) NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14... Figure 4.12 Typical Connection of a 24 VDC Releasing Device to the FCM-1 Module Circuit Requirements When connecting a releasing device to the FCM-1 module, note the following: Refer to the Releasing Applications appendix in the NFS-320/E/C Programming Manual for configuration details (such as setting the Soak Timer).

For applications using power-limited circuits: a) Use an in-line supervisory device (P/N REL-47K) with the FCM-1 module. SLC releasing applications with software version 12.0 or higher. H-type FCM-1 control modules do not support FlashScan Mode releasing applications with software version 12.0 or higher. Use H-type FCM-1 for CLIP mode releasing applications. NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14... Program the releasing circuit for Type Code REL CKT ULC or RELEASE CKT. Circuits are supervised against opens and shorts. Refer to the NFS-320/E/C Programming Manual for instructions on setting the Soak Timer. The FCM-1-REL module must be programmed with the correct releasing type code listed in the NFS-320/E/C Programming Manual.

Page 49 NOTE: If using the on-board NACs, see Circuit Requirements for Section 4.7.4 “Connecting a Releasing Device to the Control Panel” on page 44. If using FCM-1, see Circuit Requirements for Section 4.7.5 “Connecting a Releasing Device to the FCM-1 Module” on page 46. NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14... Measure the battery voltage with notification appliances active. Replace any battery with a terminal voltage less than 21.6 VDC and reapply AC Power Continued on next page... NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14... Take care to avoid accidental shorting of the leads from uninsulated work benches, tools, bracelets, rings, and coins. WARNING: Shorting the battery leads can damage the battery, equipment, and could cause injury to personnel. NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14...

3.9 A at 24 VDC during Standby; and • 7.4 A at 24 VDC during Alarm. The current draw from all NACs plus DC output from TB10 and TB2 is 3.0 A during standby, and 6.0 A in alarm.

NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14...

Page 53 AC power loss.The non-fire alarm current is required to complete the standby battery calculations. After summing all current draws, insert the total in Table A.3. NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14... Page 54 Enter the total notification appliance draw from the Main Power Supply, excluding the current from APS-6R

supplies. Refer to Device Compatibility Document. †† Refer to manual and/or Device Compatibility Document. See Table 1.1, “Reference Documentation,” on page 8 for specific documentation part numbers. NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14... APS-6R supplies. NOTE: The Secondary Fire Alarm Load cannot exceed the following: • 12 A with BAT-12260 batteries (12 V, 26 AH). • 20 A with BAT-12550 batteries (12 V, 55 AH). NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14... • For a 200 AH battery, use derating factor of 2.5 For 26 AH batteries: maximum standby current cannot exceed 0.65A; maximum alarm current cannot exceed 6.75A Table A.4 Secondary Power Standby and Fire Alarm Load NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14... Total Amp-Hours calculated in Table A.4 and that are within the acceptable battery charger range. Write the amp-hours requirements on the Protected Premises label. The maximum battery size that can be mounted inside the NFS-320’s cabinet is 26AH. Voltage Number Part 1... The control panel uses only sealed lead-acid batteries for secondary standby power.

Maximum bat- tery capacity for the CPS-24/E main power supply is 200 AH. The NFS-320 enclosure provides space for up to two 26 AH batteries.

Use external battery boxes if the installation requires larger capacity batteries,... Page 59 Control Panel NACs (TB6, TB7, TB8, TB9): 2.2K, 1/2 watt (ELRs) XP6-C, FCM-1 Modules: 47K, 1/2 watt NOTE: For a list of compatible Notification Appliance Circuits and Releasing Circuits see Notifier Device Compatibility Document 15378. Output Relays (common) Output relays for Alarm and Trouble are common on TB4; Supervisory, and Security are program- mable on TB5. NOTE: If running an SLC in conduit with Notification Appliance Circuits, you can reduce problems by exclusively using electronic sounders (such as the SpectrAlert, SpectrAlert Advanced or MA/SS-24 Series) instead of more electronically noisy notification appliances (such as electromechanical bells or horns).

NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14... Page 61 12 AWG (3.31 mm charger *FCM-1 can not be used for synchronized strobe/sounder applications. Table B.1 Wire Requirements NOTE: Lightning arresters required on circuits extending between buildings; 999 meter length maximum to meet UL 60950. NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14... Electrical connections 22 Alarm System 37 Electrical Specifications 58 NFPA Applications (Overview) 36 Ematch Protection Device 27 NFS-320 (120V Operation), see Basic Equipment EOLR-1, see Power Supervision Relay Packages 11 External Power Supervision 36 NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14... Page 63 Related Documentation 8 VeriFire 35 Relays, see Form-C Relays 27 Releasing Circuits Connections 26 - Releasing Applications 43 Wiring Specifications 59 Proprietary Security Alarm Applications Releasing Device Circuit Requirements 44 Wire Requirements 60 NFS-320/E/C Installation Manual — P/N 52745:M2 7/1/14...

Page 64 World Headquarters 12 Clintonville Road Northford, CT 06472-1610 USA 203-484-7161 fax 203-484-7118 www.notifier.com...

El panel de control de alarma contra incendios inteligente NFS-320 es parte de la serie ONYX de NOTIFIER con cumplimiento UL, está diseñado específicamente para aplicaciones pequeñas con características que minimizan el tiempo de instalación, permiten tiempos de respuesta más rápidos y simplifican el mantenimiento y la usabilidad. Características y beneficios Listado: UL, ULC, FM, CSFM, MEA Totalmente programable en campo Diseño de chasis extraíble para una fácil instalación y servicio Conexión directa al sistema de comunicaciones de emergencia NOTIFIER FirstCommand™ Conectable en red con NOTI-FIRE-NET y ONYXworks compatible hasta 200 nodos para NFN Comunicador IP o GSM opcional Liberación, Notificación masiva, Certificado sísmico, Aprobado para uso marino 1 Circuito de línea de señalización (SLC): Estilo 4, 6 o 7 318 Dispositivos inteligentes (159 detectores / 159 módulos) 4 Circuitos de aparatos de notificación (NAC) integrados, 1.5 Amperes cada uno Evacuación por voz disponible, integración directa con FirstCommand 50/100 6 Amperes de potencia total del sistema 32 Anunciadores tipo LCD o 32 tipo ACS Nota importante: La venta de todos los equipos Notifier requiere Certificación Oficial Especificaciones, Precios y Fotografías de los Productos: * Las especificaciones, características, funciones, cualidades, colores, precios, así como las fotografías son ciertas al momento de la publicación, pero ocasionalmente hay ligeros cambios debido a la tecnología cambiante.

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