ILI95-S-E3

Intelligent Loop Interface-95-Expansion Board

Product Installation Document

CAUTION 1: STATIC SENSITIVE EQUIPMENT
THIS EQUIPMENT IS SENSITIVE TO STATIC ELECTRICITY. IT MAY BE DAMAGED IF NOT PROPERLY HANDLED. TRANSPORT AND STORE THIS UNIT IN A STATIC-SHIELDING BAG.
FAILURE TO OBSERVE THIS REQUIREMENT COULD CAUSE LATENT DAMAGE TO THE EQUIPMENT WHICH MIGHT NOT MANIFEST ITSELF UNTIL AFTER THE EQUIPMENT IS PLACED IN SERVICE.

CAUTION 2: DISCONNECT ALL POWER
REMOVE ALL SOURCES OF POWER BEFORE SERVICING, REMOVING OR INSTALLING ANY UNITS.

Section 1: Description

The ILI95-S-E3 (Intelligent Loop Interface-Expansion Board) is a supplementary signaling line circuit expander board. When the ILI95-S-E3 is connected to the network, it is compatible with the following systems.

- E3 Series® Fire Alarm and Mass Notification System
- E3 Series (Expandable Emergency Evacuation) System
- E3 Series Broadband System
- E3 Series Classic System

NOTE 1: The E3 Series nodes may be networked with the S3 Series System.

It is used in the E3 Series Broadband and the Autonomous Control Unit (ACU) for the Mass Notification System. The ILI95-S-E3 provides the E3 Series control panel with two signaling line circuits and terminals. The ILI95-S-E3 supports the Apollo protocol. Each Signaling Line Circuit (SLC) supports 126 detectors/modules. The ARCNET communication circuits are wired in a Class X configuration.

NOTE 2: Use the Signaling Line Circuit (SLC) devices for Fire and/or E3 Releasing applications.

The circuit board layout is similar to the ILI95-MB-E3 with the exception that some components are omitted and a power supply is added. Figure 1.1 illustrates the ILI95-S-E3 (First Generation-Part Number: 1120-0912) circuit board. Figure 1.2 illustrates the ILI95-S-E3 (Second Generation-Part Number: 50137579-001) circuit board .

ILI95-S-E3 (First Generation-Part Number: 1120-0912)



Figure 1.1 ILI95-S-E3 (First Generation) Module

ILI95-S-E3 (Second Generation-Part Number: 50137579-001)

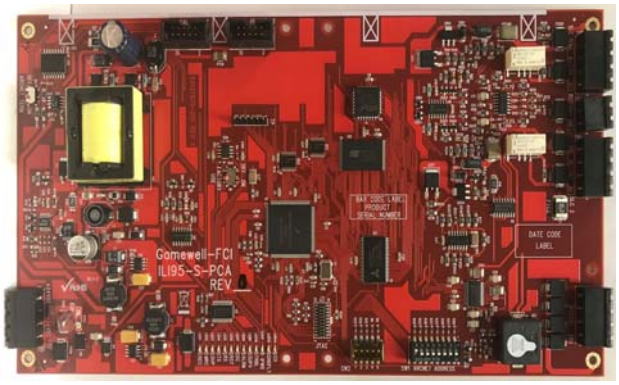


Figure 1.2 ILI95-S-E3 (Second Generation) Module

1.1 Mass Notification System (MNS)

The Gamewell-FCI, Mass Notification System (MNS) is a Combination In-Building Fire and Mass Notification System. It comprises the E3 Series Broadband Emergency Voice Evacuation and the E3 Series Broadband Networked Fire Alarm Systems. This design allows a wide range of configurations to form an integrated, distributed fire alarm system in combination with the audio evacuation for both Fire and Mass Notification functions as desired. The design also allows for its use as a dedicated standalone Mass Notification System without the fire alarm service. The network communication conveys all Fire Alarm and Mass Notification control functions, audio evacuation, voice paging, and fire fighter communications over a single pair of wires or fiber-optic cable. The modular design offers several configurations to accommodate the following audio components:

- Autonomous Control Unit (ACU), (Main Command Center)
- Local Operating Console (LOC), (Remote Command Center)
- E3 Series Broadband Voice Evacuation System

Table 1.1.1 lists the E3 Series sub-assemblies that can be used in the Gamewell-FCI, MNS (Mass Notification System).

Autonomous Control Unit (ACU) Main Command Center	E3 LOC Remote Command Center	E3 Broadband System (Distributed System)
AM-50 Series Amplifiers	AOM-TELF/AOM-2SF	AM-50 Series Amplifiers
ANU-48 (Remote Annunciator)	ASM-16 (Addressable Switch Module)	ANU-48 (Remote Annunciator)
ASM-16 (Addressable Switch Module)	INI-VG Series (First/Second/Third Generation) (Intelligent Network Interface Voice Gateway)	ASM-16 (Addressable Switch Module)
ILI-MB-E3 (Intelligent Loop Interface-Main Board)	INCC-MIC (Microphone)	ILI-MB-E3 (Intelligent Loop Interface-Main Board)
ILI-S-E3 (Intelligent Loop Interface-Expansion Board)	NGA (Network Graphic Annunciator)	ILI-S-E3 (Intelligent Loop Interface-Expansion Board)
ILI95-MB-E3 (Intelligent Loop Interface-Main Board)	INCC-TEL (Telephone)	ILI95-MB-E3 (Intelligent Loop Interface-Main Board)
ILI95-S-E3 (Intelligent Loop Interface95-Expansion Board)		ILI95-S-E3 (Intelligent Loop Interface95-Expansion Board)
INCC-MIC (Microphone)		INCC-MIC (Microphone)
INCC-TEL (Telephone)		INCC-TEL (Telephone)
INI-VG Series (First/Second/Third Generation) (Intelligent Network Interface Voice Gateway)		INI-VGC, (First/Second/Third Generation) (Intelligent Network Interface Voice Gateway)
NGA (Network Graphic Annunciator)		INI-VGX, (First/Second/Third Generation) (Intelligent Network Interface Voice Gateway)
PM-9/PM-9G (Power Supply)		NGA (Network Graphic Annunciator)
RPT-E3-UTP (Communication Circuit)		PM-9/PM-9G (Power Supply)
		RPT-E3-UTP (Communication Circuit)
Note: In the E3 Series, Mass Notification System, the LCD-E3 Display panel is not used.		

Table 1.1.1 E3 Series Modules Used in the MNS System

1.1.1 Mass Notification System - Documentation

The following MNS System information is available in the Gamewell-FCI, *Mass Notification System (MNS) Installation/ Operation Manual, Part Number:LS10013-000GF-E*.

- System Configurations
- Cabinets Installations
- Class 2 Power-Limited Requirements
- Wiring
- System Operation
- Testing/Maintenance

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Section 2: Installation

2.1 Standards

This product is intended to be installed in accordance with the following standards.

National Fire Protection Association

- AHJ — Authority Having Jurisdiction
- NFPA 70 — National Electrical Code
- NFPA 72 — National Fire Alarm Code
- NFPA 101 — Life Safety Code

UL Standards UL 864 9th and 10th Edition

- Per the UL Continuing Certification Program, UL 864 9th edition fire alarm control equipment will retain certification after the roll-out of UL 10th edition (12/2/2018).
- Installations of UL 864 10th Edition certified equipment are permitted to use UL864 9th Edition certified equipment when approved by the local Authority Having Jurisdiction (AHJ).

For product compliance, refer to the UL/ULC listing cards located on the UL online certification directory.
https://iq.ulprospector.com

Underwriters Laboratories® Standard

- UL-2572 MNS Mass Notification, Second Edition

2.2 Installation Requirements

All components of the E3 Series® System should be installed per the following requirements:

- Installations are to be indoors only, in dry locations, protected from rain, water, and rapid changes in temperature that could cause condensation. Equipment must be securely mounted on rigid, permanent walls.
- Operating temperature shall not exceed the range of 32° to 120° F (0 to 49° C).
- Operating humidity not to exceed 93% non-condensing at 90° F (32° C).
- There should be adequate space around the installation to allow easy access for operation and servicing.
- All sub-assemblies and components are to be located in compliance with the local and the national codes.
- All installation field wiring shall be in compliance with the local, the national codes and the manufacturer's recommendations.
- Use the Architects and Engineering Specifications for detailed information on your facility's configuration.
- Installers must be Gamewell-FCI Factory Certified to program this product. For additional information on this product, contact the Gamewell-FCI Customer Support to schedule the Factory Certified Training.

NOTE: COLD WATER/EARTH GROUND STANDARD:
Per Article 760 of the National Electrical Code, the following terminal blocks must be connected to an Earth Ground connection:
- Terminal TB3-3 on the ILI-MB-E3/ILI95-MB-E3
- Terminal TB3-3 on the INI-VG Series (First/Second Generation)
- Terminal TB1-5 on the INI-VG Series (Third Generation)

Failure to make a proper earth ground connection from a metallic cold water pipe or driven ground rod to this terminal will result in loss of lightning protection, reduce the tolerance of the system to transients, and will adversely affect the operation of the system. Panel neutral or conduit ground is not acceptable; minimum wire size is 14 AWG.

2.3 Specifications

The following are the electrical specifications for the ILI95-S-E3 sub-assembly.

Operating Voltage: 24 VDC (from PM-9/PM-9G power supply)
Standby Current: 0.109 amps
Alarm Current: 0.11 amps
Operating Temperature: 32° to 120° F (0° to 49° C)
Relative Humidity: 0 to 93% non-condensing at 90° F (32° C)
Supervised Class 2 Power-Limited

2.4 ILI95-S-E3 Installation Assembly Options

1. Remove the ILI95-S-E3 from its static-shield bag, observing proper static protection measures.
2. Visually inspect the unit for damage.
3. Use the Hardware Kit provided with the unit.

   The ILI95-S-E3 sub-assembly can be installed in several types of configurations in the E3 Series cabinets.

   To determine the ILI95-S-E3 installation that you require, refer to the following documents:

   - E3 Series Cabinets B, C, D, Retrofit, DR-C4/DR-D4 and EQ Cabinets Installation Instructions, P/N: LS10082-000GF-E
   - E3 Series, Remote Annunciator Display and Retrofit Cabinets Installation Instructions, P/N: LS10083-000GF-E
   - Mass Notification System (MNS) Installation/Operation Manual, P/N: LS10013-000GF-E

Table 2.4.1 lists the cabinet configurations that the ILI95-S-E3 can be installed. To determine which configuration to install the ILI95-S-E3 module, identify the System your facility uses. Then, locate the configuration in the Cabinet Assembly Options column. To locate the Section that describes how to install the ILI95-S-E3 in the appropriate configuration, refer to the Installation Instructions column. For example, if your facility uses an E3 Series System, and your facility purchased the Cabinet C, E3-ILI-C Plate, refer to Section 2.4.1 for instructions on how to install the ILI95-S-E3 to the Cabinet C, E3-ILI-C mounting plate.

Cabinet Assembly Options	Part Number	Cabinet Dimensions	Installation Instructions (For installation instructions, refer to the Section listed below).
E3 Series System Installation Options			
Cabinet C, E3-ILI-C Plate (RPT-E3-UPT Connected to ILI-MB-E3/ILI95-MB-E3)	E3-ILI-CPLATE	19 3/8”W x 30”H x 4 1/2”D (49W x 76H x 11.4D cm)	Section 2.4.1
Cabinet C, E3-INCC-C Plate	E3-INCC-CPLATE	21”W x 28 1/2”H x 4”D (53.34W x 72.39H x 10.16D cm)	Section 2.4.1
Cabinet D, E3-INCC-D Plate	E3-INCC-D PLATE	19 3/8”W x 41”H x 4 1/2”D (49W x 104H x 11.4D cm)	Section 2.4.2
E3 Series Combined Fire and MNS System Installation Option			
Cabinet D, E3-INCC-D Plate (ACU)	E3-INCC-D PLATE	19 3/8”W x 41”H x 4 1/2”D (49W x 104H x 11.4D cm)	Section 2.4.2
Retrofit Installation Options			
600XL Retrofit Cabinet C Backbox E3-INCC-C Plate	600XL-RETROFIT (E3-INCC-CPLATE)	22”W x 30”H x 5 1/2”D (55.8W x 76H x 13.9D)	Section 2.4.1

Table 2.4.1 IILI95-S-E3 Installation Assembly Options

2.4.1 ILI95-S-E3 Installed to the Cabinet C, Mounting Plates

The ILI95-S-E3 can be installed in the following Cabinet and E3 Series mounting plate configurations.

Cabinet C

- E3-ILI-C Plate
- E3-INCC-C Plate

600XL Retrofit Cabinet

- E3-INCC-C Plate

E3-ILI-C Mounting Plate Installation

1. Align and place the ILI95-S-E3 on the bottom of the E3-ILI-C mounting plate.
2. Insert eight standoffs (3/16” HEX #4-40, x 1.25”) into the eight-hole mounting pattern and secure the standoffs to the E3-ILI-C mounting plate as shown in Location 1 of the figure below.
4. Align and place the second ILI95-S-E3 on top of the standoffs extending from the first ILI95-S-E3.
6. Insert eight screws (#4-40 x 1/4”) into the eight standoffs and secure the screws to the standoffs extending from the first ILI95-S-E3 as shown in Location 2 of the figure below.

Figure 2.4.1.1 illustrates the ILI95-S-E3 installed to the Cabinet C, E3-ILI-C plate.

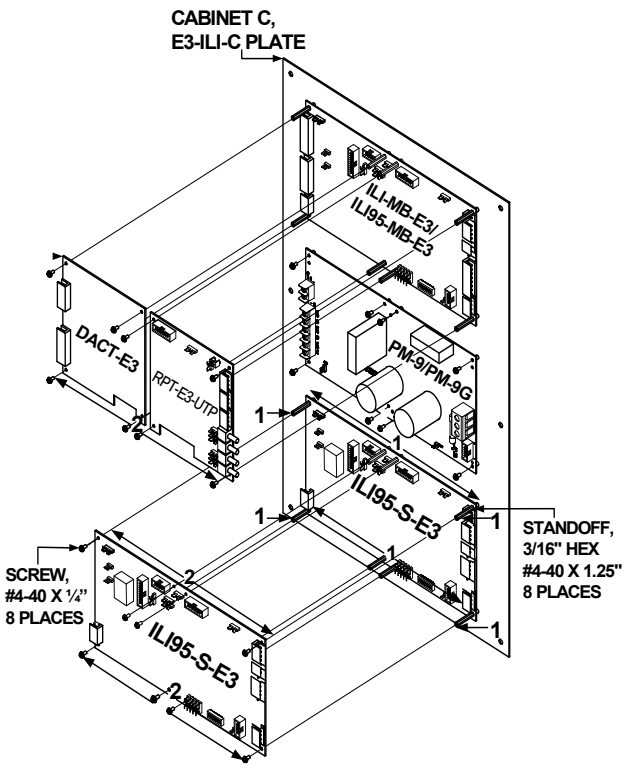


Figure 2.4.1.1 Cabinet C, E3-ILI-C Plate

E3-INCC-C Mounting Plate Installation

1. Align and place the ILI95-S-E3 to the pins on the bottom of the E3-INCC-C plate.
3. Insert eight screws (#4-40 x .1/4”) in the eight-hole mounting pattern as shown in Location 1 of the figure below.
5. Secure the screws to the E3-INCC-C mounting plate as shown in Location 1 of the figure below.

Figure 2.4.1.2 illustrates the ILI95-S-E3 installed to the Cabinet C, E3-INCC-C plate.

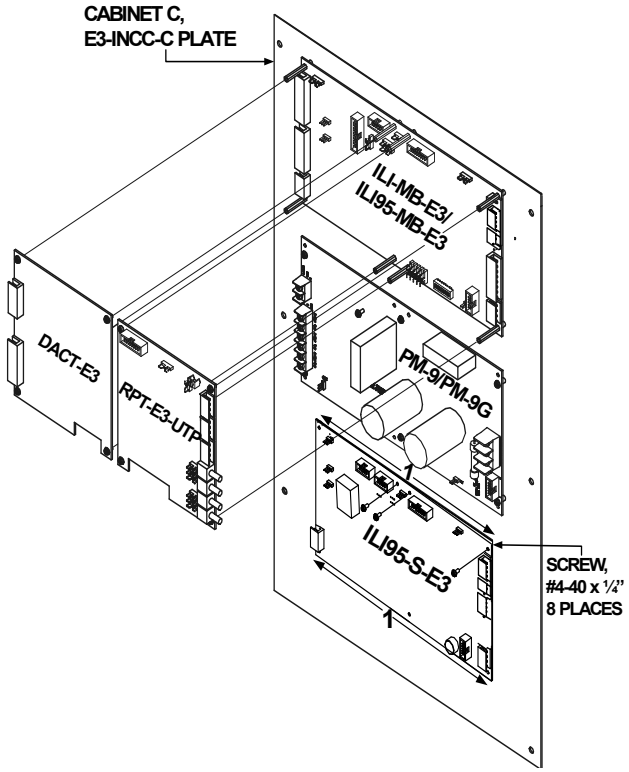


Figure 2.4.1.2 Cabinet C, E3-INCC-C Plate

2.4.2 ILI95-S-E3 Installed to the Cabinet D, Mounting Plate

The ILI95-S-E3 can be installed to the E3-INCC-D plate in the following Cabinet D, E3-INCC-D Plate configurations.

E3-INCC-D Mounting Plate Installation

1. Align and place the first ILI95-S-E3 sub-assembly to the pins on the E3-INCC-D plate.
2. Insert eight standoffs (3/16" HEX x #4-40 x 1.25") into the eight-hole mounting pattern and secure the screws to the E3-INCC-D plate as shown in Location 1 of the figure below.
3. Align and place the second ILI95-S-E3 sub-assembly to the pins on the E3-INCC-D plate. Insert eight standoffs (3/16" HEX x #4-40 x 1.25") into the eight-hole mounting pattern and secure the screws to the E3-INCC-D plate as shown in Location 1 of the figure below.
4. Align and place the third ILI95-S-E3 sub-assembly over the standoffs on top of the first ILI95-S-E3. Insert eight screws (#4-40 x 1/4") into the eight-hole mounting pattern and secure the screws to the standoffs as shown in Location 3 of the figure below.
5. Align and position the fourth ILI95-S-E3 sub-assembly over the standoffs on top of the second ILI95-S-E3. Insert eight screws (#4-40 x 1/4") into the eight-hole mounting pattern and secure the screws to the standoffs as shown in Location 4 of the figure below.

Figure 2.4.2.1 illustrates four ILI95-S-E3s mounted to the Cabinet D, E3-INCC-D plate.

NOTE: You can install the INI-VG Series (First/Second/Third Generations) to the CAB D, E3-INCC-D Plate. Figure 2.4.2.1 shows the installation with the INI-VG Series (Third Generation) fiber-optic plug-in module.

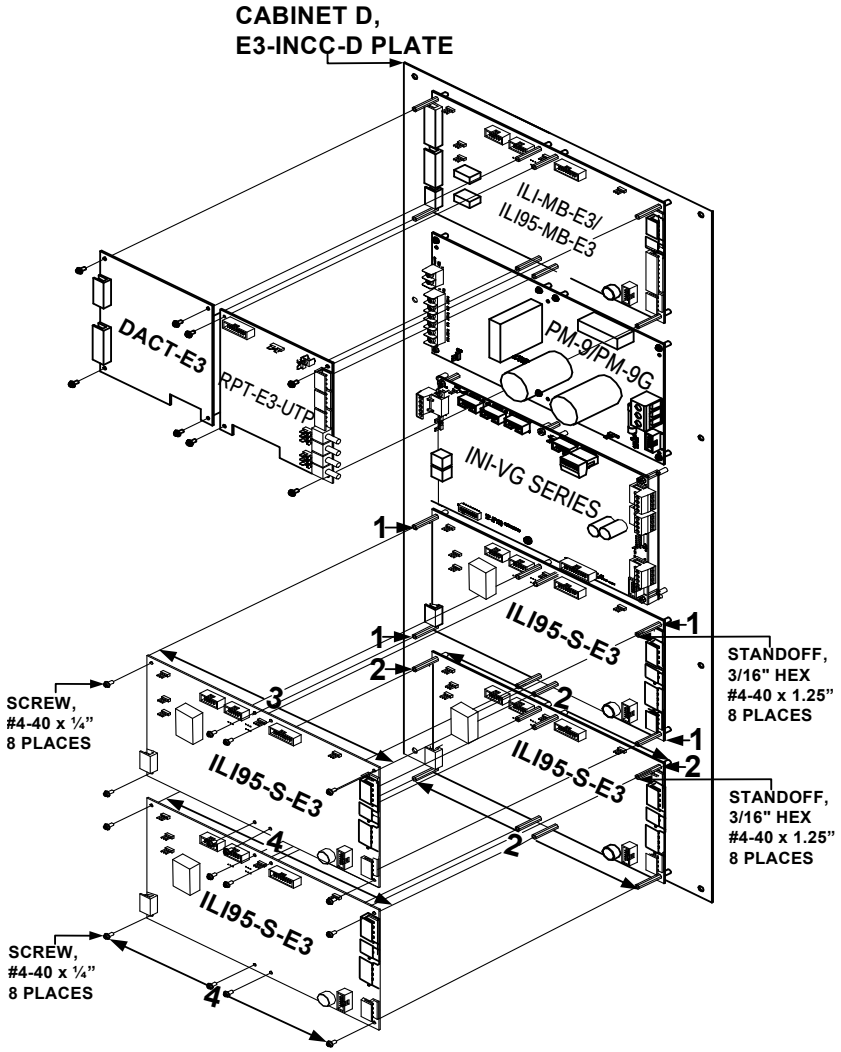


Figure 2.4.2.1 Cabinet D, E3-INCC-C Plate Installation

Section 3: Wiring

3.1 Signaling Line Circuits

The ILI95-S-E3 provides two, 24 VDC Class A, Class X or Class B signaling line circuits. See Figure 3.1.1 for wiring information. Class X wiring requires the use of an XP95-LI Line Isolator or XP95-LIB Line Isolator Base (ILI95-MB-E3) on both sides of device.

ILI95-S-E3 Wiring Instructions

SLC 1 Class B	TB7-4 (+), TB7-3 (-)
SLC 2 Class B	TB4-4 (+), TB4-3 (-)
SLC 1 Class A	TB7-4 OUT, TB7-2 RETURN
	TB7-3 OUT, TB7-1 RETURN
SLC-2 Class A	TB4-4 OUT (+), TB4-3 OUT (-)
	TB4-2 RETURN (+), TB4-1 RETURN (-)

(Polarity markings indicate the polarity that should be maintained throughout the circuit. Polarity connected to the circuit must be observed on all devices).

Circuit Ratings:	24 VDC (nominal)
Current (SLC):	0.048 amp max. (supervisory)
	0.136 amp max. (alarm)
	0.100 amp max. Steady State (short circuit)
	40 Ohms max. line impedance
	0.5 µf max. line capacitance

Ground fault test impedance: Zero ohms
Wiring: 18 AWG minimum, twisted-pair, unshielded
Supervised
ISO NRB+ Rating
Current (ISO NRB+): 0.75 A max. (See Note 1).

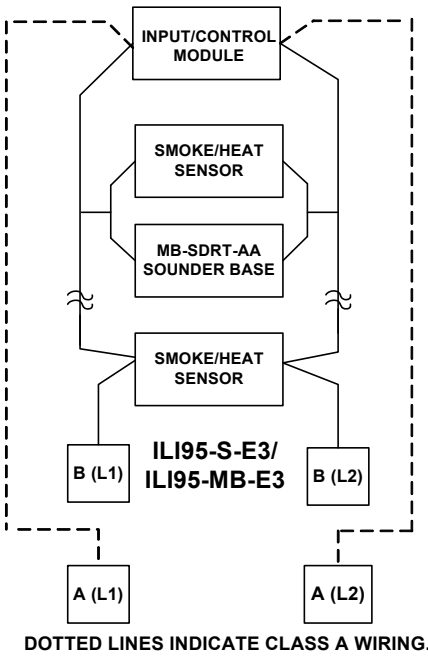


Figure 3.1.1 Signaling Line Circuits

NOTE 1: ISO NRB+ Circuit Load Current and Battery Calculation:
The maximum load current for the ISO NRB+ circuit is 0.75A. The ILI95-S-E3 battery calculations are computed based on the total load current of all devices connected to this circuit, plus a 20% margin.

3.2 Wiring Requirements

Table 3.2.1 lists the wiring requirements for the ILI95-S-E3 sub-assembly.

Circuit Type	Circuit Function	Wire Requirements	Distance	Typical Wire Type*
SLC (Class 2 Power-Limited)	Connects to intelligent and addressable modules.	Twisted-unshielded pair, 12 to 18 AWG (3.1 to 0.78 mm^2) 40 Ohms maximum per length of Class A and Class X loops. 40 Ohms combined-branch circuits maximum for Class B loop. MC cable with 2 conductor twisted.	10,000 ft. (3,000 m)	12 AWG (3.1 mm^2)
			8,000 ft. (2,400 m)	14 AWG (2.00 mm^2)
			4,875 ft. (1,450 m)	16 AWG (1.30 mm^2)
			3,225 ft. (980 m)	18 AWG (0.78 mm^2)
	Or	Shielded wire, in conduit or outside of conduit or MC cable. MC cable with 3 conductor twisted.	1,000 ft. (304.8 m)	12 to 18 AWG (3.1 to 0.78 mm^2)
		Note: The maximum total capacitance of all SLC wiring (both between conductors and from any conductor to ground) should not exceed 0.5 microfarads.		
ARCNET (Class 2 Power-Limited)	Provides interface between network nodes. ARCNET should be installed in a separate conduit.	Twisted-unshielded pair low capacitance 18 AWG, or ribbon cable to the other modules within the same cabinet.	3,000 ft. (.914 m)	18 AWG (3.1 mm^2)
Note: Lightning arresters required on circuits extending between buildings; 999 meter length maximum to meet UL 1459.				

Table 3.2.1 Wiring Requirements

3.3 ILI95-S-E3 Wiring Connections

Figure 3.3.1 illustrates the ILI95-S-E3, (First Generation-P/N:1120-0912) and Figure 3.3.2 illustrates the ILI95-S-E3, (Second Generation-P/N:50137579-001 modules.

ILI95-S-E3 (First Generation-P/N:1120-0912)

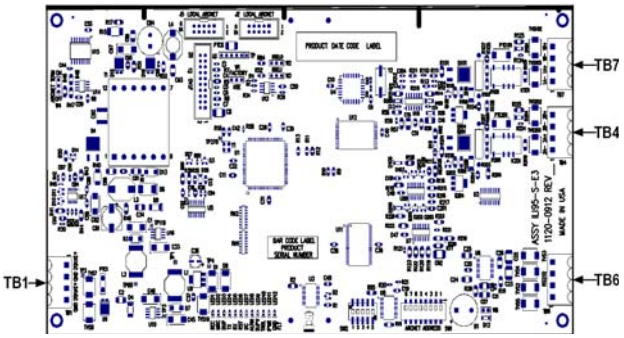


Figure 3.3.1 ILI95-S-E3 (First Generation) Module

ILI95-S-E3 (Second Generation-P/N:50137579-001)

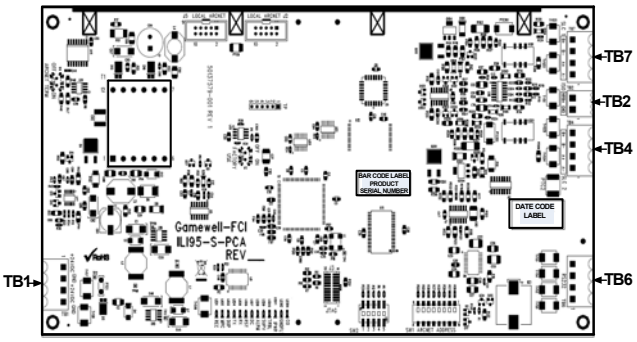


Figure 3.3.2 ILI95-S-E3 (Second Generation) Module

3.3.1 ILI95-S-E3 Wiring Designations

The ILI95-S-E3 (First Generation) sub-assembly is wired as shown in Figure 3.3.2.1 and Table 3.3.1.1. The ILI95-S-E3 (Second Generation) sub-assembly is wired as shown Figure 3.3.2.2 and Table 3.3.1.1.

Designation	Description	Comments	
ILI95-S-E3 (First and Second Generation) Wiring Designations			
TB1-1, TB1-3	+24 V IN	+24 VDC Input	
TB1-2, TB1-4	GND	Common negative from PM-9/PM-9G TB4-2	
TB4-1	SLC 2 A-	SLC 2 Class A / Class X Return (See Note 1)	
TB4-2	SLC 2 A+	SLC 2 Class A / Class X Return (See Note 1)	
TB4-3	SLC 2 B-	SLC 2 Class B / Class A / Class X Out (See Note 1)	
TB4-4	SLC 2 B+	SLC 2 Class B / Class A / Class X Out (See Note 1)	
TB7-5	SLC 1 A- (L1)	SLC 1 Class A / Class X Return (See Note 1)	
TB7-6	SLC 1 A+ (L2)	SLC 1 Class A / Class X Return (See Note 1)	
TB7-7	SLC 1 B- (L1)	SLC 1 Class B / Class A / Class X Out (See Note 1)	
TB7-8	SLC 1 B+ (L2)	SLC 1 Class B / Class A / Class X Out (See Note 1)	
TB6-1	RS-232 GND	For Programming, GND connects to red lead on the download cable P/N 75267. For Printer Port, GND connects to printer DB-9, PIN-5.	RS-232 Download or Printer Port (See Note 2)
TB6-2	RS-232 TxD	For Programming, TxD connects to black lead on the download cable P/N 75267. For Printer Port, TxD connects to printer DB-9, PIN-2.	
TB6-3	Supervision	Optional Printer Supervision. For Printer Port, SUPV connects to printer DB-9, PIN-4.	
TB6-4	RS-232 RxD	For Programming, RxD connects to green lead on the download cable P/N 75267. For Printer Port, RxD connects to printer DB-9, PIN-3.	
SW2-1	Switch	1 ON = SLC 1 DISABLED (OFF = SLC 1 ENABLED)	
SW2-2	Switch	2 ON = SLC 2 DISABLED (OFF = SLC 2 ENABLED)	
SW2-3	Switch	Unused	
SW2-4	Switch	4 ON = BUZZER DISABLED (OFF = BUZZER ENABLED)	
SW2-5	Switch	5 ON = 115.2 BAUD (OFF = defined by CAMWorks™).	
J2	Local ARCNET	Connect to J5 of the next ILI or ILI95 Series sub-assembly.	
J5	Local ARCNET	Connect to J2 from the previous ILI or ILI95 Series sub-assembly.	

Table 3.3.1.1 ILI95-S-E3 Wiring Designations

ILI95-S-E3 (First Generation) Wiring Designations			
Designation	**Description**	**Comments**	
W1, W2, W3	Factory Jumpers	Factory Use Only (Default OUT)	Used for ILI95-S-E3 First Generation only.
W4	Local ARCNET Termination	OPEN = If the ILI95-S-E3 is located in the middle of the bus or if it is not used. SHORT = If the ILI95-S-E3 is located at either end of the ARCNET bus	
ILI95-S-E3 (Second Generation) Wiring Designations			
TB2-1	ISO GND	Isolated Ground (See Note 3)	Used for ILI95-S-E3 Second Generation only.
TB2-2	ISO NRB+	Isolated Non-Resettable B+ (See Note 3)	
W1	Factory Switch	Factory Use Only (Default OUT)	
W4	Local ARCNET Termination	OPEN = If the ILI95-S-E3 is located in the middle of the bus or if it is not used. SHORT = If the ILI95-S-E3 is located at either end of the ARCNET bus.	

NOTES

Note 1: For Class B, use Terminals B+ and B- only.
For Class A, use terminals B+ and B- and connect return wiring to A+ and A-.
For Class X, wire the same as Class A and use the Isolator Modules and/or the Isolator Detectors per the required recommendations.

Note 2: The PRN-7 Printer is a dot-matrix printer. It is shipped with a DB-9 Adapter Kit that provides the necessary hardware and cables for installation. For additional information on the PRN-7 Printer, refer to the Manufacturer's Installation Guide.

Note 3: Use ISO NRB+ and ISO GND to provide power to the SCE-95 or RSI-95 devices connected to the SLCs of this ILI95-S-E3 only. Connect the ISO NRB+ to the devices +24 V terminal and connect the ISO GND to the -24 V terminal.

Table 3.3.1.1 ILI95-S-E3 Wiring Designations (Continued)

3.3.2 ILI95-S-E3 Wiring Diagram

3.3.2.1 ILI95-S-E3 (First Generation) Wiring Diagram

Figure 3.3.2.1 illustrates the wiring connections for the ILI95-S-E3 (First Generation) sub-assembly assigned to part number: 1120-0912.

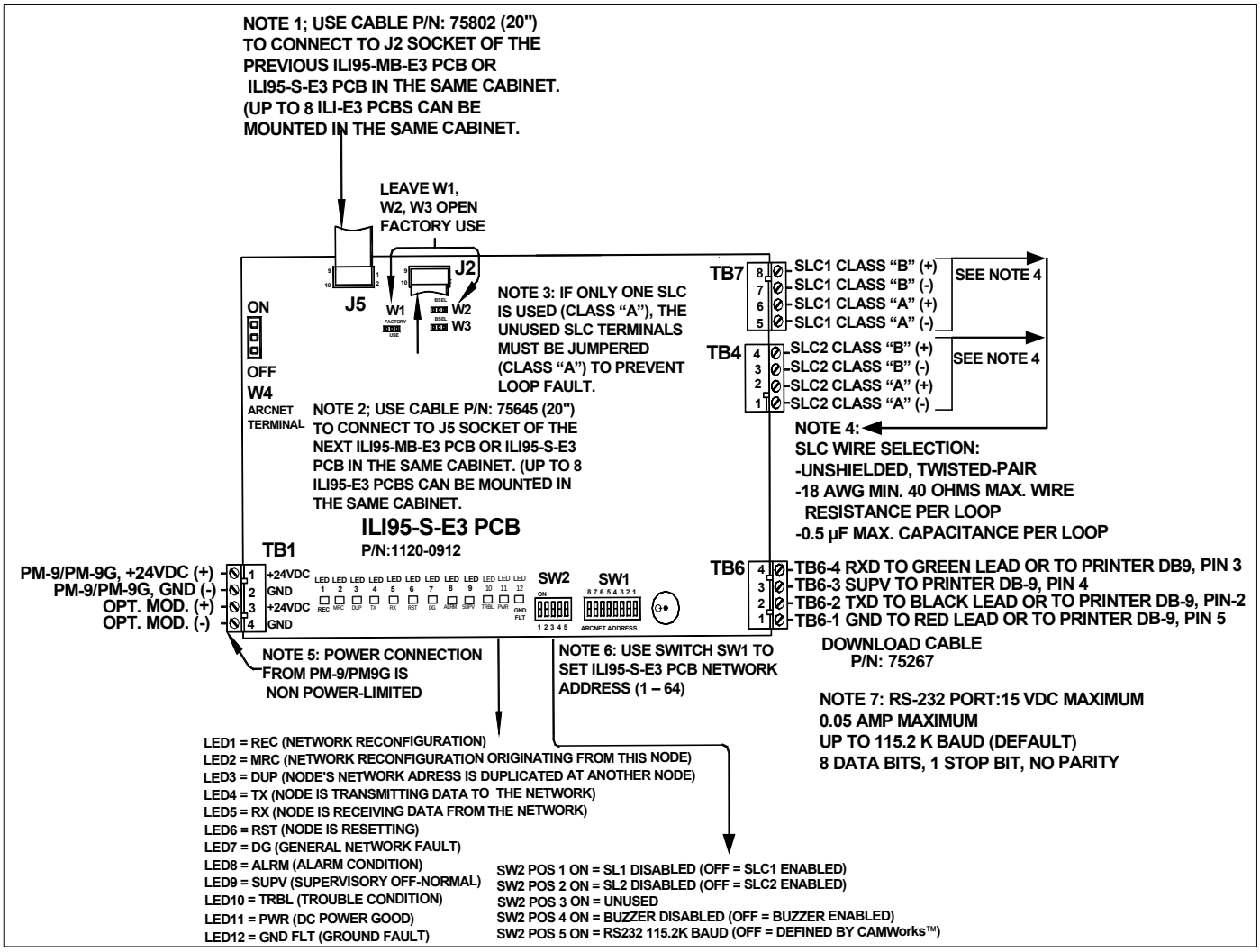


Figure 3.3.2.1 ILI95-S-E3 (First Generation) Wiring Diagram

3.3.2.2 ILI95-S-E3 (Second Generation) Diagram

Figure 3.3.2.2 illustrates the field wiring connections for the ILI95-S-E3 (Second Generation) sub-assembly assigned to part number: 50137579-001.

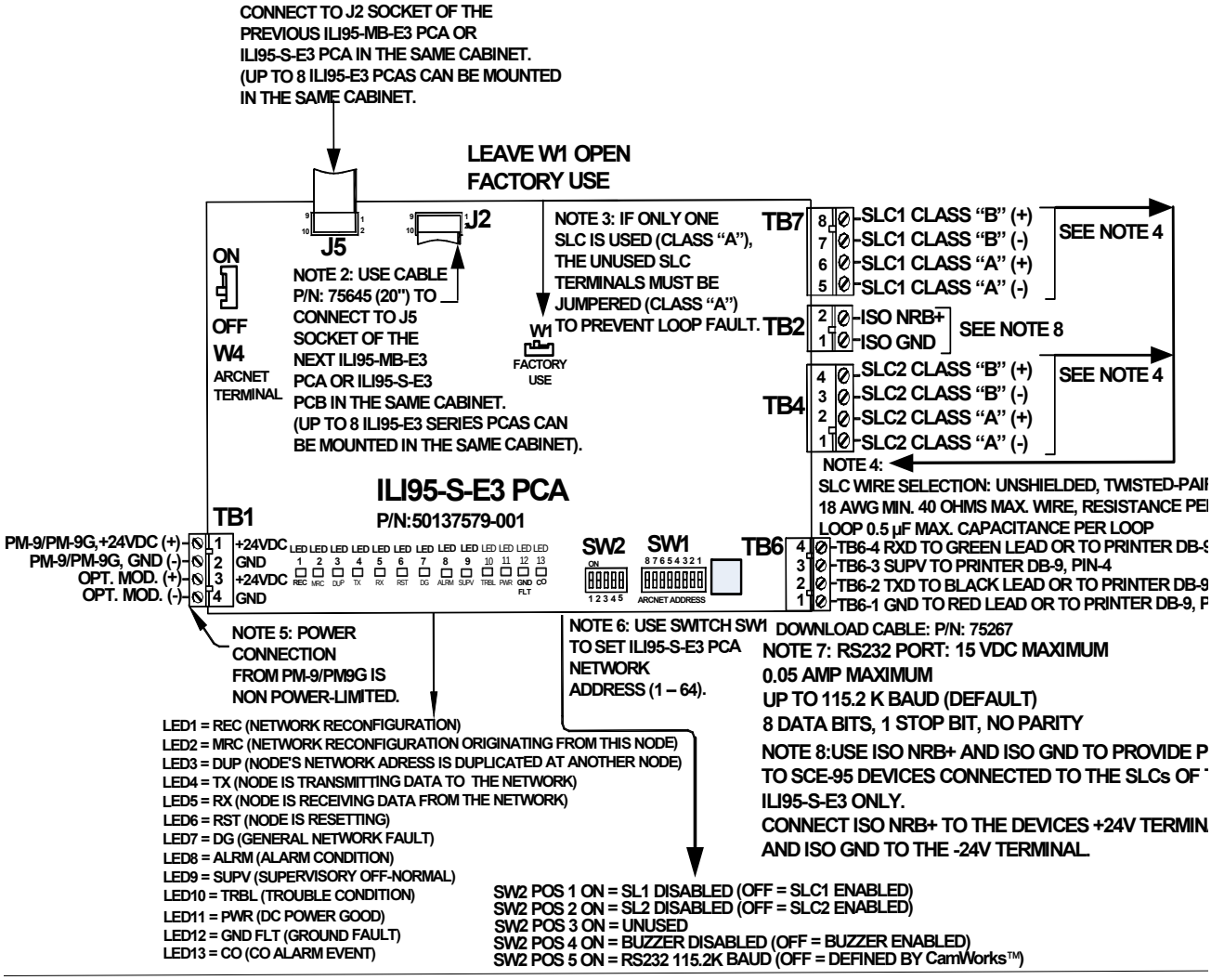


Figure 3.3.2.2 ILI95-S-E3 (Second Generation) Wiring Diagram

Section 4: Programming Address Switch Settings

Set the address using the switch, SW1. Figure 4.1 illustrates the address switch settings for the ILI95-S-E3 sub-assembly.

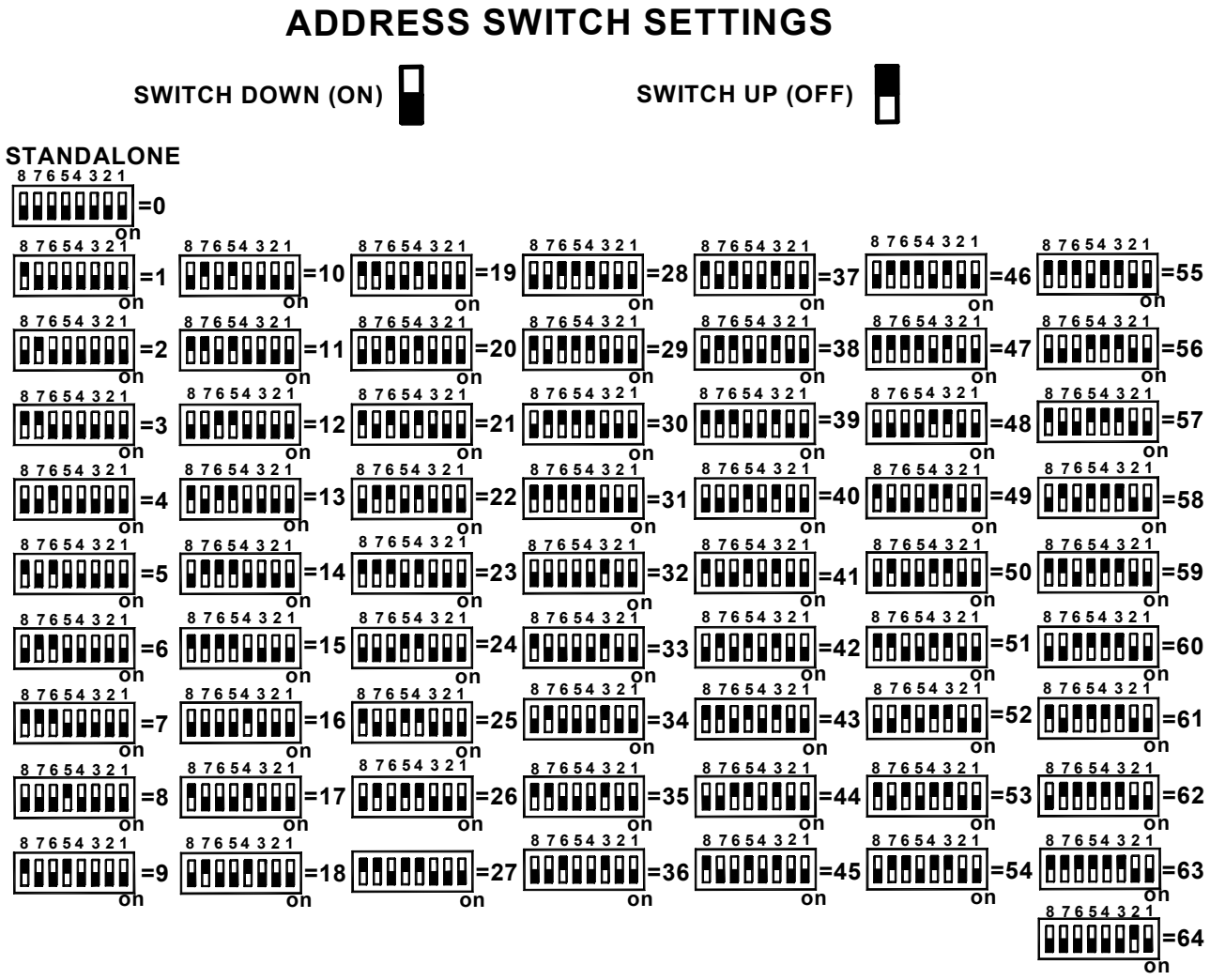


Figure 4.1 ILI95-S-E3 Address Switch Settings

Section 5: Programming Requirements

This product uses the CAMWorks™ Software Program. Installers must be Gamewell-FCI Factory Certified to program this product. For additional information on this product, contact the Gamewell-FCI Customer Support to schedule the Factory Certified Training.

NOTE: For information on the latest version of CAMWorks, see the Gamewell-FCI website, www.gamewell-fci/esd.com.

Section 6: Reference Documentation

Table 6.1 lists the UL-Controlled documentation assigned to the S3 Series and E3 Series Systems. If you require detailed installation instructions on cabinetry, wiring and specifications, you can download the following UL-Controlled documents from the ESD site on the Gamewell-FCI Website (www.gamewell-fci-esd.com)..

Part Number	Title
UL Listing Document	
LS10005-051GF-E	S3 Series (Small Addressable Fire Alarm Control Panel) UL Listing Document
LS10080-051GF-E	E3 Series Fire System (Expandable Emergency Evacuation System) UL Listing Document
Manuals	
9000-0562	E3 Series Broadband Smoke and HVAC Control Installation/Operation Manual
9000-0575	E3 Series Broadband Installation/Operation Manual
9000-0577	E3 Series Classic Installation/Operation Manual
LS10013-000GF-E	E3 Series Combined Fire and MNS Installation/Operation Manual
Installation Instructions	
9000-0491	LCD-7100 (Remote Serial Annunciator) Installation Instructions
9000-0544	AM-50 Series (50 Watt Amplifiers) Installation Instructions
9000-0545	INX, INX CAB-B, INX CAB-C and INX CAB-D Network Audio Transponder Services Instructions
9000-0546	INCC Intelligent Network Interface Installation Instructions
9000-0548	PM-9 (Power Supply) Installation Instructions
9000-0549	INI-VG Series (Intelligent Network Interface) Installation Instructions
9000-0550	ASM-16 (Addressable Switch Module) Installation Instructions
9000-0564	ANU-48 (Remote LED Driver Annunciator) Installation Instructions
9000-0568	NGA (Network Graphic Annunciator) Installation Instructions
9000-0569	ILI-S-E3 (Intelligent Loop Interface - Expansion Board) Installation Instructions
9000-0579	ILI-MB-E3 (Intelligent Loop Interface - Main Board) Installation Instructions
9000-0580	RPT-E3-UTP (Repeater-E3 Unshielded Twisted-Pair) Installation Instructions
9000-0581	DACT-E3 (Digital Alarm Communicator Transmitter) Installation Instructions
9000-0582	LCD-E3 (Liquid Crystal Display-E3) Installation Instructions
9001-0017	ILI95-MB-E3 (Intelligent Loop Interface-95 - Main Board) Installation Instructions
9001-0055	PM-9G (Power Supply) Installation Instructions
9001-0064	ANX (Addressable Node Expander) Installation Instructions
9001-0065	E3BB-FLUSH-LCD-CAB A2 Remote Flush Annunciator Installation Instructions
9001-0066	RAN-7100 (Remote Alphanumeric Annunciator) Installation Instructions
LS10044-000GF-E	SLC-PM/SLC95-PM (Signaling Line Circuit-Personality Modules) Installation Instructions
LS10046-000GF-E	FML-E3/FSL-E3 (Fiber-Optic Multi-Mode/Fiber-Optic Single-Mode) Installation Instructions
LS10058-000GF-E	FLPS-7 (Power Supply) Installation Instructions
LS10082-000GF-E	E3 Series Cabinets B, C, D, Retrofit, DR-C4/DR-D4 and EQ Cabinets Installation Instructions
LS10083-000GF-E	E3 Series, Remote Annunciator Display and Retrofit Cabinets Installation Instructions
LS10218-000GF-E	INI-VG Series (Intelligent Network Transponder-Voice Gateway-Third Generation) Instructions
LS10222-000GF-E	NGA (Network Graphic Annunciator-Second Generation) Installation Instructions
Addendum	
9000-0427-L8	Compatibility Addendum to Gamewell-FCI Installation/Operation Manuals UL File S1869 Vol. 8C
Supplement / Frame and Posts	
LS10138-151GF-E	E3 Series Releasing System Supplement
9000-0583	E3 Series for the LCD-E3 Operating Instructions
LS10056-000GF-E	S3 Series (Small Addressable Fire Alarm Control Panel System), Operating Instructions
LS10121-000GF-E	E3 Series for the LCD-SLP Operating Instructions

Table 6.1 Reference Documentation

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