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# FIK-NIC Network Interface Card Product Installation Document

PN LS10172-002FK-E:A 03/04/2021 ECN: 151526

## 1 Description

The FIK-NIC is a Network Interface Card. It is used when you want to network a group of Fike Series, Fire Alarm Control Panels (FACPs). You must use the FIK-NIC to link the panels together.



**NOTE 1:** The installation and wiring of this device must be done in accordance with the NFPA 72 and the local ordinances.

### 1.1 Compatibility

The FIK-NIC is compatible with the following Fike Series, Fire Alarm Control Panels (FACPs).

- FCP-2100-ECS
- FCP-300-ECS
- FCP-75

For programming and addressing, refer to the Networking / Common Communication link section of the FACP Installation Manual.



**NOTE 1:** The FIK-NIC provides a common communications link for the FCP-2100-ECS, FCP-300-ECS and FCP-75. These panels cannot be linked together for peer-to-peer networking.

## 2 Specifications

- Standby Current: 21mA
- Alarm Current: 21mA
- Operating Voltage: 24VDC
- Operating Temperature: 32°F to 120°F (0°C to 49°C)

## 3 Layout and Mounting

The FIK-NIC can be mounted within the FACP cabinet or in the FIK-NIC-KIT accessory cabinet. It cannot be mounted in the FCP-75. The Accessory cabinets include the FIK-NIC, a small cabinet with a door, a cable, and mounting hardware.

The FIK-NIC-KIT Accessory Kit is available if you want to install the FIK-NIC outside of the FACP cabinet. For additional information, refer to the FIK-NIC-KIT Installation Instructions, P/N LS10171-002FIK-E. Figure 1 shows the board layout.

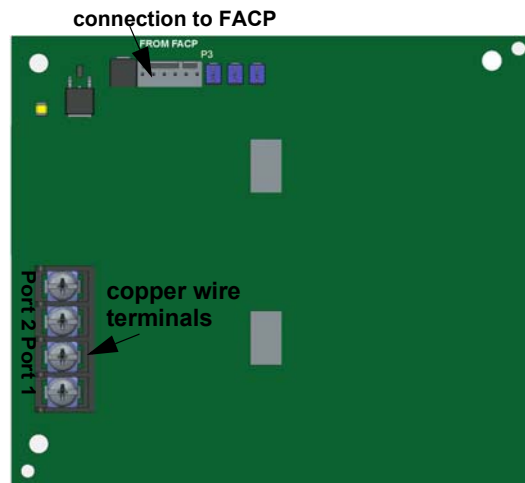
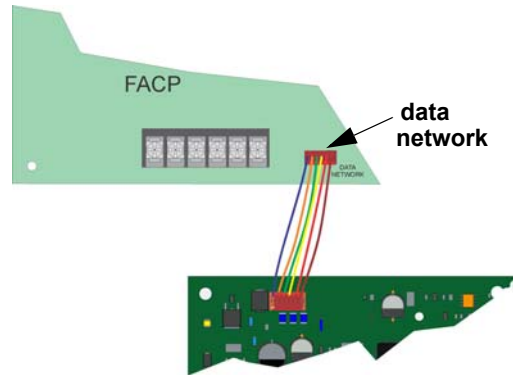


Figure 1 FIK-NIC Board View

### 3.1 FIK-NIC Installation

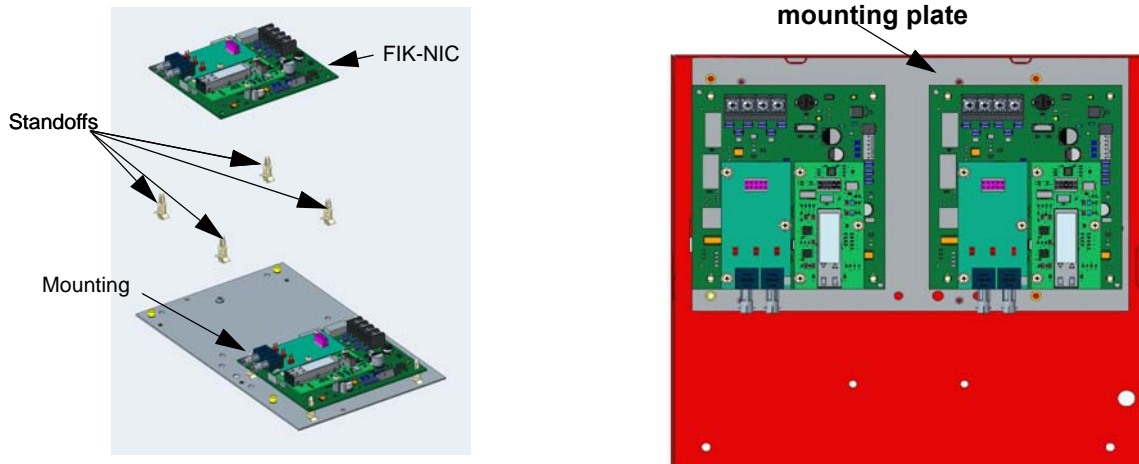
To properly connect the FIK-NIC to the FACP port, use the supplied 6-pin cable, P/N130372-L8 and refer to the following steps.

1. Place the FIK-NIC on one of the SLC expander standoff sets.
2. Use the 6-pin cable to connect one end of the cable to the FACP pin connector labeled, “Data Network” and connect the other end of the cable to the FIK-NIC card P3 connector. Refer to Figure 2.



**Figure 2 Panel to FIK-NIC connection**

To mount the FIK-NIC remotely, follow Step 1 and Step 2. If you use the 6-pin cable, run the cable from the FIK-NIC to the FACP that must be run in conduit. Refer to 3.2 when using the FIK-NIC-KIT.



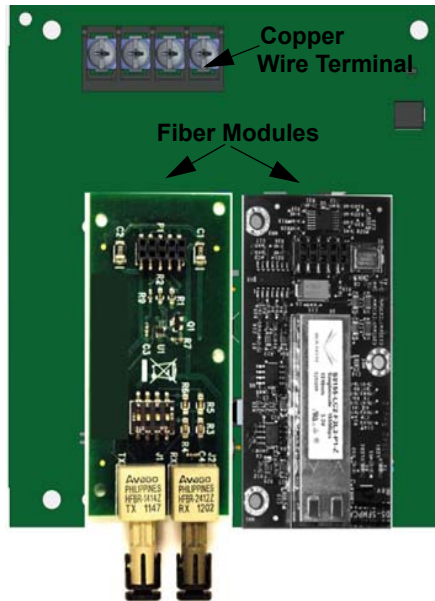
**Figure 3 Mounting the FIK-NIC in the FIK-NIC-KIT**



**NOTE :** For more information, see the FACP Installation Manual.

## 3.2 Fiber Loop Modules

Figure 4 illustrates the FIK-NIC fiber loop modules or wire terminals.



**Figure 4 FIK-NIC Fiber Loop Modules or Wire Terminals**

The FIK-NIC connects to other networked units using unshielded, twisted-pair wiring or fiber-optic cable.

The FIK-FML (Fiber-Optic Multi-Mode) and FIK-FSL (Fiber-Optic Single-Mode) are plug-in fiber loop modules. The two types of fiber-optic modules are used as one channel to transmit or receive communications with the FIK-NIC, ARCNET Communication Circuit.

The following describe the two types of fiber-optic modules:

- The FIK-FML is a fiber module that allows the multi-mode fiber to network between nodes.
- The FIK-FSL is a fiber module that allows the single-mode fiber to network between nodes.



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**NOTE 1:** For more information on FIK-FML and FIK-FSL, refer to the FIK-FML/IK-FSL Installation Instructions, P/N LS10178-002FK-E.

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