



# BOSCH FLM-325-2I4 Dual Input Monitor Module Instruction Manual

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**BOSCH**

**BOSCH FLM-325-2I4 Dual Input Monitor Module**



## Product Information

The FLM-325-214 Dual Input Monitor Module is designed to be connected to a DCP Signaling Line Circuit (SLC) and is used for monitoring manual pull stations, water flow devices, or any dry contact alarm device with N/O contacts. It is compatible with a compatible Fire Control Panel.

## Wiring

All wiring must conform to local codes, ordinances, and regulations. The module wiring should be installed according to the job drawings and appropriate wiring diagram (see Fig.3). The module should be securely attached to a U.L.-listed electrical box as shown in Figure 2. The address must be set before attaching the cover plate (see Figure 1).

## Caution

- Install the modules in accordance with applicable NFPA standards, local codes, and the authorities having jurisdiction. Failure to follow these instructions may result in system failure. Bosch is not responsible for improperly installed, tested, or maintained modules.
- To ensure proper operation, connect this module to a compatible Fire Control Panel only. Refer to panel instructions for proper connection and compatibility.
- If this module will be installed in an existing operational system, inform the operator and local authority that the system will be temporarily out of service. Disconnect power to the control panel before installing the module.
- An average of 6.75mA (communication current) per loop of SLC devices must be factored into the panel battery backup calculations.

## Wiring Limitations

The maximum line impedance between input and initiating devices is 3.50. Only the same size wire from 12 to 22

AWG may be connected to terminal block TB1 when more than one conductor is being connected under each terminal. A maximum of 2 conductors per terminal is allowed.

## **Product Usage Instructions**

1. Follow the mounting requirements as shown in Figure 2.
2. Ensure that all wiring is installed according to local codes and the appropriate wiring diagram (see Fig.3).
3. Securely attach the module to a U.L. listed electrical box as shown in Figure 2.
4. Set the address before attaching the cover plate (see Figure 1).
5. Connect the module to a compatible Fire Control Panel following the panel instructions for proper connection and compatibility.
6. If installing the module in an existing operational system, inform the operator and local authority that the system will be temporarily out of service. Disconnect power to the control panel before installing the module.
7. Factor in the average communication current (6.75mA per loop of SLC devices) into the panel battery backup calculations.
8. Ensure that the wiring limitations are followed, including using the same size wire from 12 to 22 AWG and a maximum of 2 conductors per terminal on terminal block TB1.

## **INSTALLATION INSTRUCTIONS**

### **INSTALLATION INSTRUCTIONS FOR FLM-325-2I4 DUAL INPUT MONITOR MODULE**

- The information contained in this installation instruction is a quick reference guide.
- For detailed system information refer to the panel manufacturer's installation manual.
- This instruction will not address specific programming procedures.

## **GENERAL DESCRIPTION**

- This instruction applies to the FLM-325-2I4 Dual Input Monitor Module which is to be connected to a DCP Signaling Line Circuit (SLC).
- Typical applications are manual pull stations, water flow devices, or any dry contact alarm device, N/O contacts can be monitored.

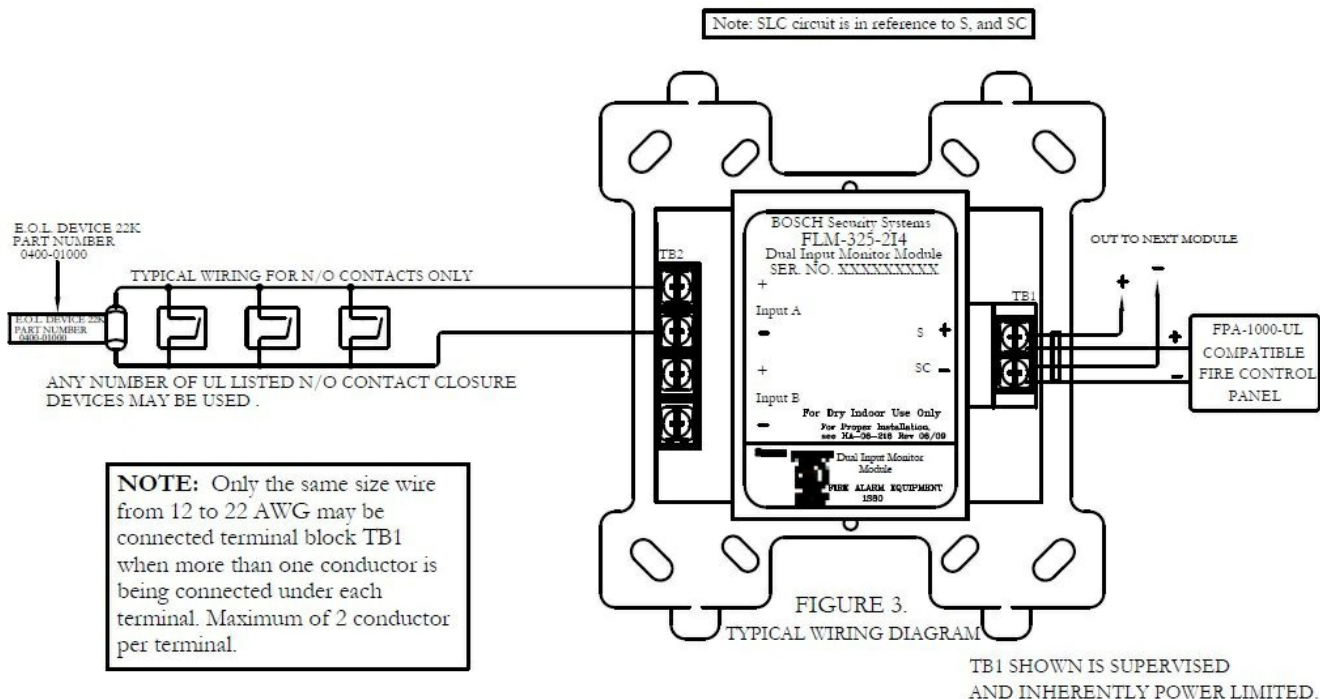
## **MOUNTING REQUIREMENTS**

- The DCP Dual Input Monitor module is mounted as shown in Figure 2 on page 2 of this instruction.

## **WIRING**

**NOTE:** All wiring must conform to local codes, ordinances, and regulations.

1. Install module wiring in accordance with the job drawings and appropriate wiring diagram (see Fig.3).



- Secure the module to a U.L.-listed electrical box (supplied by the installer), as shown in Figure 2.

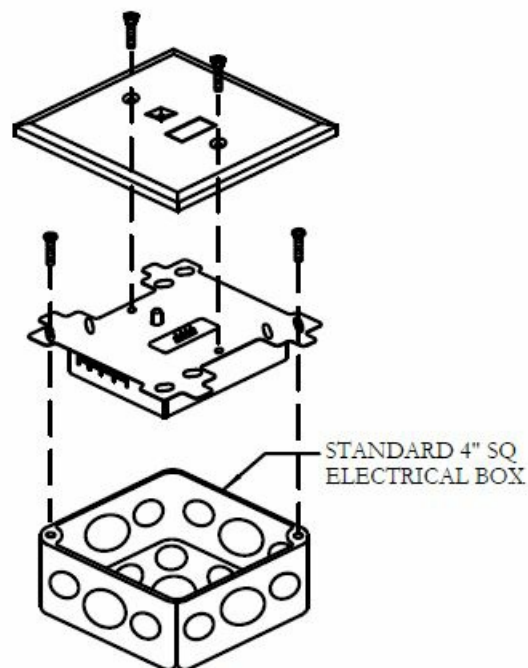


FIGURE 2  
TYPICAL MOUNTING ARRANGEMENT

INITIATING DEVICE CIRCUIT (IDC) ARE POWER LIMITED DRY CONTACT CONNECTION ONLY

TABLE 1: WIRING LIMITATIONS

Maximum line impedance between input and initiating devices.
3.50Ω

- The address must be set before the cover plate is attached (see Figure 1).

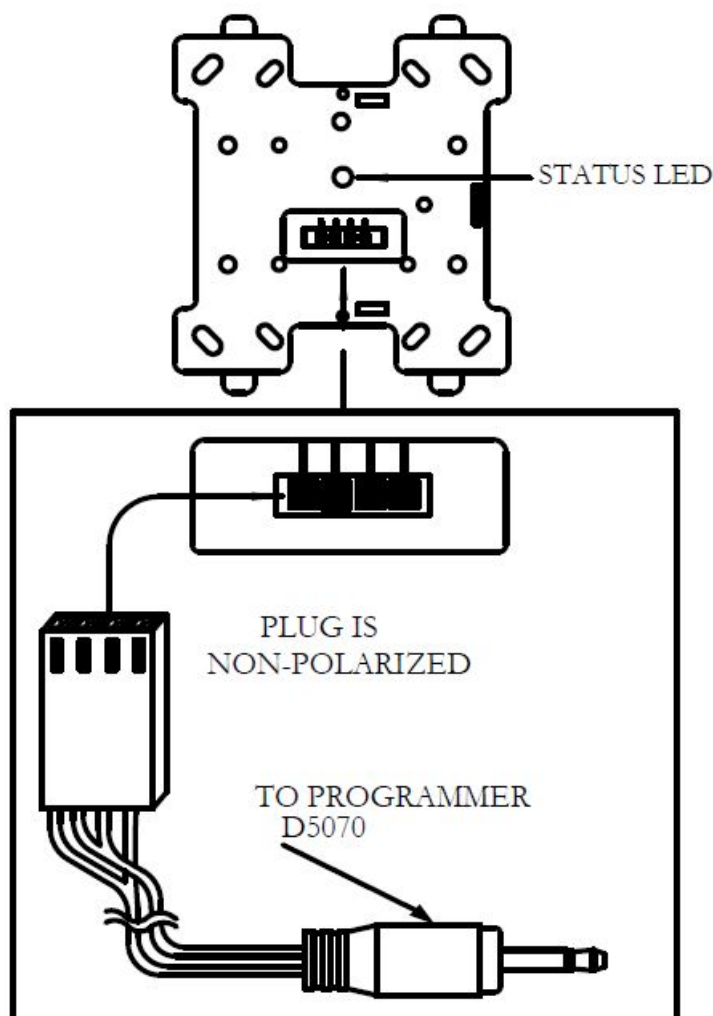


FIGURE 1.  
EXPLODED VIEW OF ADDRESS  
PROGRAMMING PLUG AND CONNECTOR

#### NOTE

Radio Frequency Interference and Electro-Magnetic Interference are sources of noise that can adversely affect the fire alarm systems installation. When installing fire alarm system devices, avoid placing devices or wiring close to potential noise sources such as:

- Transmitters or antennas;
- Ballast lighting;
- Electrical motors;
- Large power transformers;
- Large machines.

Avoid running the SLC circuit in the same conduit as the power lines. Utilize twisted pair and shielded wire in environments where excessive noise is expected.

#### CAUTION

- Install the modules in this instruction in accordance with applicable NFPA standards, local codes, and the authorities having jurisdiction. Failure to follow these instructions may result in failure of the system to operate as intended.
- BOSCH is not responsible for modules that have been improperly installed, tested, or maintained.

## CAUTION

- To ensure proper operation connect this module to a compatible Fire Control Panel only. Refer to panel instructions for proper connection and compatibility.

## CAUTION

- If this module will be installed in an existing operational system, inform the operator and local authority that the system will be temporarily out of service. Disconnect power to the control panel before installing the module.

**NOTE:** An average of 6.75mA (communication current) per loop of SLC devices, must be factored into the panel battery backup calculations.

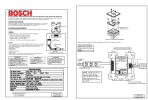
## SPECIFICATIONS

<b>SLC Applied Voltage</b>	<b>Rated Range 25.3 – 39 VDC</b>
<b>SLC Current Consumption</b>	<b>Maximum 720µA      Nominal 600µA</b>
<b>IDC Circuit Rating</b>	<b>3.2VDC 100µA</b>
<b>EOL Device for Input</b>	<b>EOL Part NO. 0400–01000 22KΩ, 1/4W, 1/4inch</b>
<b>Visual Indicator (Status LED)</b>	<b>bi-color LED – Green &amp; Red Color &amp; Mode – Selected and Programmed by Control Panel's software</b>
<b>Operating Temperature Range</b>	<b>0°C (32°F) ~ 49°C (120°F)</b>
<b>Storage Temperature Range</b>	<b>–30°C (–22°F) ~ 70°C (158°F)</b>
<b>Maximum Relative Humidity</b>	<b>Up to 90% RH non-condensing</b>
<b>Environment</b>	<b>Indoor dry use only</b>
<b>Dimensions</b>	<b>4.2"W X 4.7"H X .85"D</b>
<b>Weight</b>	<b>Approximately 3.0 ounces</b>

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## Documents / Resources

	<a href="#">BOSCH FLM-325-2I4 Dual Input Monitor Module</a> [pdf] Instruction Manual FLM-325-2I4, FLM-325-2I4 Dual Input Monitor Module, Dual Input Monitor Module, Monitor Mo dule, Module
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