INSTALLATION INSTRUCTIONS

The Solution

Multi-Input Module

Model: MIM-62

IMPORTANT:
READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION

MIM-62 connects up to 6 monitored entrapment protection devices to 1 or 2 operator inputs. It is recommended that you read the following instructions completely before begining installation. Please also reference your operator's manual to determine power and input requirements.

- MIM-62 will accept up to 6 separate monitored devices and connect them to either of two outputs. Non-monitored devices will not work with MIM-62.
- **Input Channels 1 and 2 must be used, and are always assigned to Output A. The other input channels may be assigned to either Output A or Output B using the Input Assignment Switch on the rear panel. Use of all 6 inputs is not required.**
- Each of the Output circuits of MIM-62 may be set to "Relay" (10K termination or normally closed), or "Pulsed" (like photo-eye output signals), by the Output Type selection switch on the rear panel, and Terminal Connection choice on P1.
- MIM-62 may be powered from any 12 or 24 VAC/DC source that can supply at least 130 mA.
- MIM-62 can provide an unregulated DC voltage to each monitored device; this voltage is dependent upon the input supplied to MIM-62. The operator must supply enough current to power the devices and MIM-62 together.

1-Pre-Installation Worksheet

Use the chart below to determine which input devices you will associate with each output when they are connected to the operator.

Input #	Device Type	Location	Output A/B	Current Draw From MIM-62*
1			A	mA
2			A	mA
3				mA
4				mA
5				mA
6				mA
			MIM-62	130 mA
			TOTAL CURRENT:	**mA**

*__All normally closed inputs *must* use power from MIM-62.__ 75 mA maximum per channel.

2-Install Module & Test

2-1. Disconnect primary power to the operator.

2-2. Leave enough slack in your wiring to allow removal of MIM-62 if/when re-learning is required.

2-3. Prepare a mounting location for MIM-62 inside the operator. Use the two mounting slots on the top cover of MIM-62.

Note: Do not mount MIM-62 yet. The switches and the Learn button on the rear panel of MIM-62 must be accessed during installation.

2-4. Connect the power leads to the removable 8-pin connector, as indicated in Figure 1.

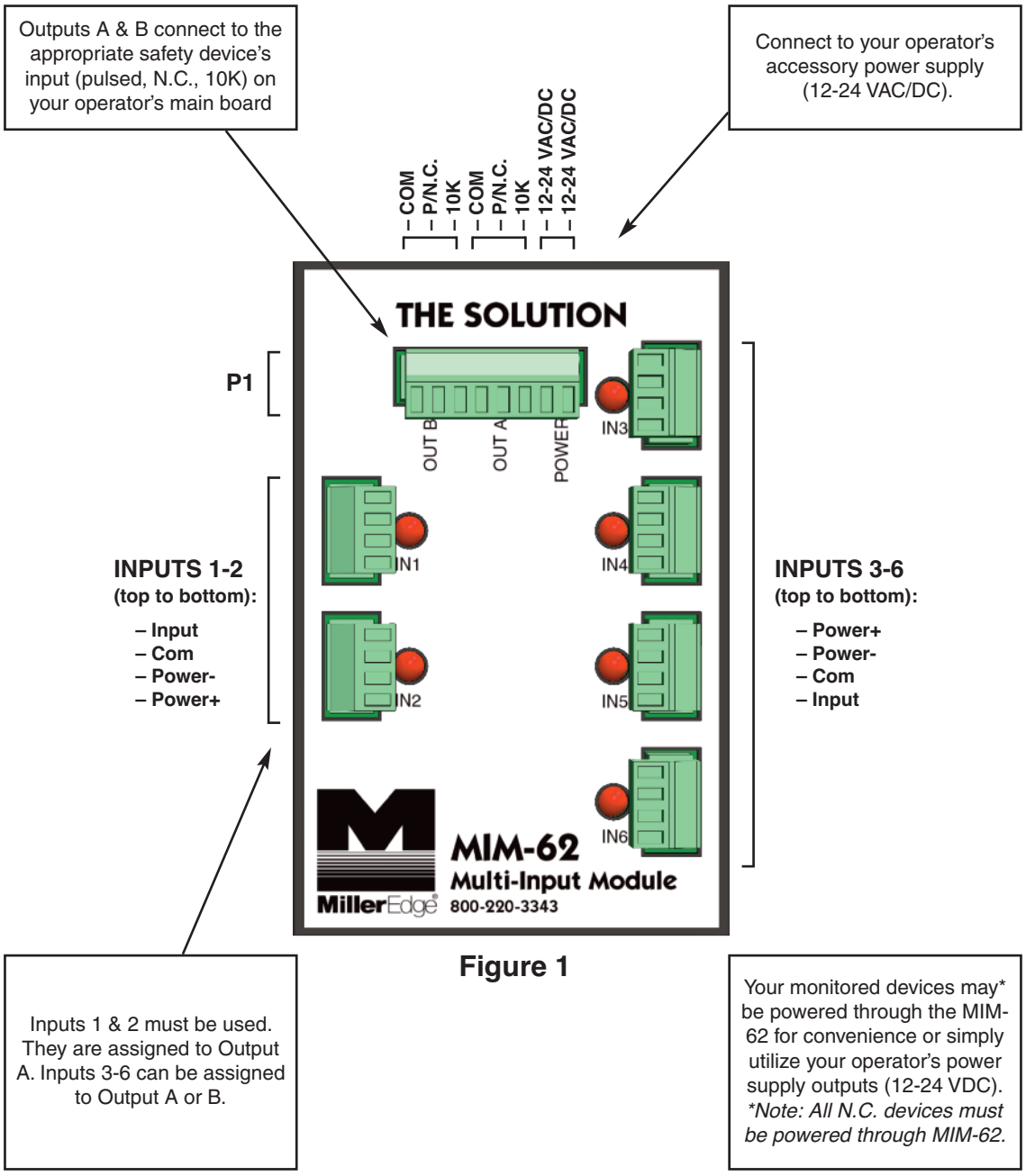


Figure 1

2-5. Wire each of your monitored devices to the removable 4-pin connector as shown in Figure 2. If the device is polarity sensitive, identify the correct common/ground wires. You do not need to use all 6 inputs.

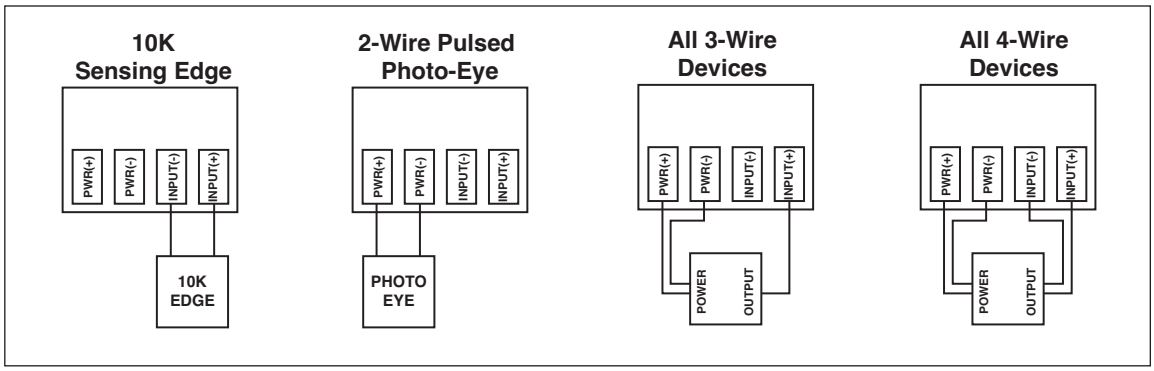


Figure 2

2-6. Plug the monitored device's connector into an appropriate input, as indicated in Figure 1.

2-7. To assign signal Output Types, select either "R" for Relay (10K or normally closed), or "P" for Pulsed, as required by your gate operator. See Figure 3.

2-8. Each device input can have a different output assignment. Use the Input/Output Assignment DIP switches to select A or B for each input that has a monitored device. See Figure 3.

Note: Input Channels 1 and 2 are hard-wired for Output A; switch positions 1 and 2 are ignored.

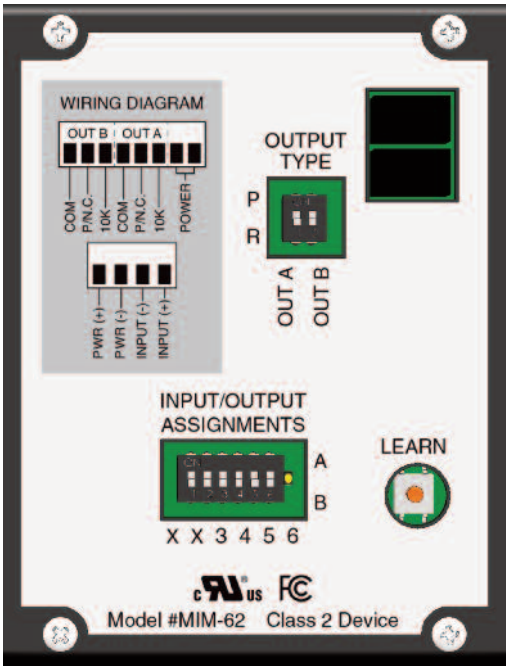


Figure 3

2-9. When all monitored safety device inputs are connected, turn on the power to the operator. MIM-62 should display a brief light test followed by blinking of the Output A and Output B indicators. The Learn Mode LED on the rear panel will also be lit. This indicates that MIM-62 is in Learn Mode, and will display the present condition of each input channel's sensor:

(a) On: solid — Open circuit (faulty wiring or nothing connected)

(b) Blinking — 10K ohm terminated sensor (no fault indicated)

(c) Off: solid — Normally Closed sensor (no fault indicated)

(d) Fast Blink — Pulsed sensor (no fault indicated)

If there is a fault, correct any wiring or make selection changes before proceeding.

Note: The LEDs behave differently in Learn Mode versus Run Mode.

2-10. When all intended devices are connected and indicating no faults, momentarily press the Learn button on the rear panel. The lights should flash, and then all the LEDs should go off, except the green power LED. Test each entrapment device to confirm the associated red LED turns on when the device is activated.

2-11. At this point, MIM-62 should be operational and may be mounted to its mounting location.

3-Troubleshooting

3-1. If monitored devices are not functioning, check for proper power connections, including polarity, if necessary.

3-2. If, after the Learn button is pressed, one or both outputs are in fault (yellow LED on), check to see which red LEDs are on. Confirm the device is connected to the assigned channel. If it is working, confirm the output of the safety device is connected properly to the input connector.

3-3. If re-learning MIM-62 is necessary:

(a) Press the Learn button to clear settings

(b) Press the Learn button to learn new settings

3-4. If all monitored devices and MIM-62 are working (no red or yellow LEDs), and the operator is still reporting a fault, confirm MIM-62 outputs are connected properly to the operator's inputs. Also, confirm the Output Interface is set correctly (pulsed or relay), as stated in the operator's manual.

4-Safety Test

4-1. Activate each monitored device and confirm the corresponding inputs' red LEDs on MIM-62 turn on.

4-2. Activate the operator and confirm that each monitored device stops and/or reverses as expected.

5-Specifications and Controls

Power: 12-24 VAC/DC nominal (8-30V max); typically 130 mA device power may be supplied from the operator or alternatively from an external supply

Note: when using a normally closed operator input, MIM-62 must connect to operator accessory power

Cable Connections: 18-22 AWG

Dimensions: 4”W x 4.74”H x 1”D

Indicator Lights:

LED	State	Meaning
Green Power LED	On	MIM-62 is getting power
	Off	No power to MIM-62
Yellow Output LED (A or B)	On	One of the input devices has detected a fault
	Off	No Faults detected for this output channel (A or B)
Red Input LED (1-6)	Off	This input is working properly
	On: Solid	This input has detected a Fault
	On: Slow blink	This device has detected a termination fault
	On: Fast blink	This device failed the N.C. monitoring test on power up

6-FCC Compliance

MODEL: MIM-62

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which may be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1- Re-orient or relocate the receiver antenna

2- Increase the separation between the equipment and the receiver

3- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

4- Consult the dealer or an experienced radio/TV technician for help.

Changes or Modifications Not Expressly Approved By The Party Responsible For Compliance Could Void The User’s Authority To Operate The Equipment.