

Bi-directional Locate Feature

When a module locate is initiated, the module's LEDs, as well as the module's representation in BabyWare will flash. Connect inputs 1 (DIAG/1) and 2 (BUS/2) to initiate the module locate feature; disconnect them to abort. To initiate or abort a module locate from BabyWare, right-click the module's representation and select **Locate Physical**. After performing a module locate and identifying the module, assign the proper physical location label for the module.

Programming MSIN4 Inputs

For more information on programming modules, refer to *BabyWare* in the Imperial System Guide.

1	When BabyWare is communicating with the V32 Main Controller, and an MSIN4 is connected to the Multibus, it automatically appears in the Switches display area. To view the Switches display area, click the Modules toggle button and select the MAMA Switches option. Alternatively, you may wish to add an MSIN4 to BabyWare before the module is physically connected to the system. Click the Add Item button and select the MSIN4 from the MAMA Modules group.
2	To program an MSIN4 module, double-click the module's icon. The MSIN4 Programming window opens.
3	Using the Input Type drop-down list, select whether each switch will be maintained (switch) or momentary (pushbutton). For maintained switches, select whether the Activation Type will follow the output's ON/OFF state or toggle , as is the case with 3-way switch installation. For momentary switches, select whether the Activation Type will toggle the output state, act as an ON only , or act as an OFF only button.
4	Click Add Action to set a trigger action for each switch. Select whether the switch will control a system output, a macro, or any combination of MAMA functions. Alarm system control can also be assigned to an MSIN4 input (cannot be combined with MAMA outputs).

Patents: One or more of the following US patents may apply: 7046142, 6215399, 6111256, 6104319, 5920259, 5886632, 5721542, 5287111, 5119069, 5077549 and RE39406 and other pending patents may apply. Canadian and international patents may also apply.

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MSIN4-EI00

MSIN4: 4-Switch Interface Module

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MSIN4



Description

The MSIN4 4-Switch Interface Module allows standard steady and momentary switches to be used with the MAMA system. The MSIN4's small profile allows it to be installed inside the switch gang box. Its detachable wire connector allows for easy replacement without re-wiring.

The MSIN4 connects directly to the Multibus and is recognized by BabyWare. Each switch input can be programmed using the same method as standard MAMA switches.

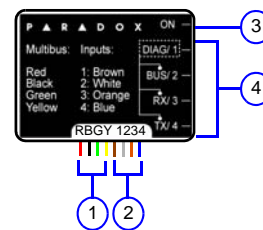
Features

- Connects up to 4 standard switches to the MAMA system
- Installed inside the switch gang box
- Supports maintained and momentary switches
- Set in *follow* mode (standard ON / OFF), *toggle* mode (3-way or pushbutton), *ON only* mode, or *OFF only* mode
- Color-coded input wires
- LEDs for operational and diagnostic feedback
- Remote firmware upgrade via Multibus using RS485 at 57.6 Kbps

Overview

- 1) Multibus connection
- 2) Color-coded input wires
- 3) Power LED
- 4) Multibus / Input feedback LEDs

Figure 1: Overview



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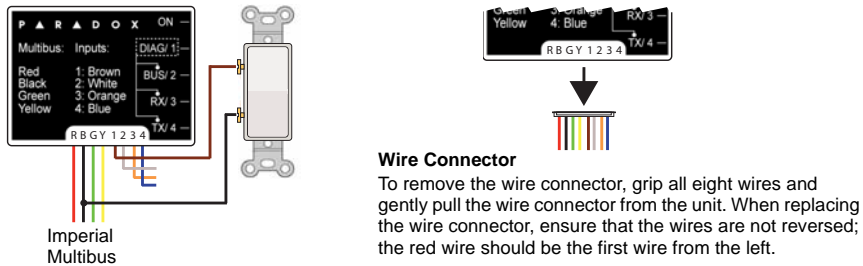
MSIN4-EI00

Specifications

Multibus rating	13.8 VDC Class 2; 15 mA
Dimensions (L x W x D)	4.1 x 2.9 x 1 cm (1.61 x 1.14 x 0.38 in.)
Operating temperature	0°C to 50°C (32°F to 122°F)
Software	BabyWare V1.22 or higher

Wiring

Figure 2: Connecting an MSIN4



WARNING: To avoid damage when installing and servicing, observe proper ESD precautions. Wiring methods must be in accordance with the National Electrical Code ANSI/NFPA 70 and any other local requirements.

LED Feedback

As with other Imperial modules, the MSIN4 uses the standard BUS/RX/TX LEDs to communicate Multibus and wiring troubles. Because the module's LEDs are used for multiple functions, to view BUS/RX/TX feedback, you must first enter *diagnostics mode* by connecting inputs 1 (DIAG/1) and 3 (RX/3); disconnect them to exit.

Figure 3: LED Display

