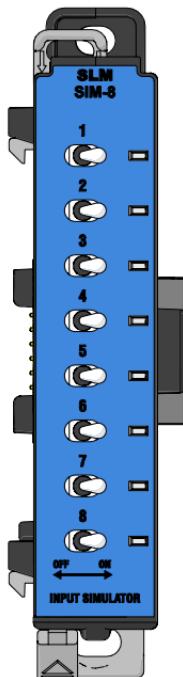


# SLM-SIM-8 Input Simulator

The SLM-SIM-8 Input Simulator Module provides eight toggle switches to simulate input devices for use with Synergy Logic Micro systems.



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# Technical Specifications

## Input Specifications

|                           |                       |
|---------------------------|-----------------------|
| <b>Inputs per Module</b>  | 8 Internal Switches   |
| <b>OFF to ON Response</b> | Max. 20ms             |
| <b>ON to OFF Response</b> | Max. 20ms             |
| <b>Status Indicators</b>  | Logic Side (8 points) |

# General Specifications

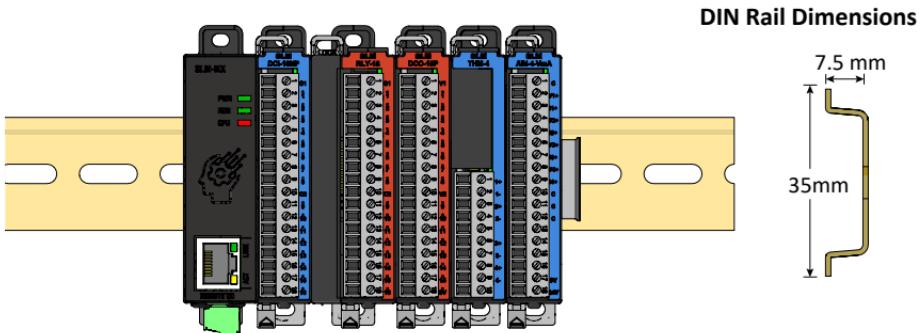
## General Specifications

|                              |  |
|------------------------------|--|
| <b>Operating Temperature</b> | 0° to 60°C (32° to 140°F)  |
| <b>Storage Temperature</b>   | -20° to 70°C (-4° to 158°F)  |
| <b>Humidity</b>              | 5 to 95% (non-condensing)  |
| <b>Altitude</b>              | 2,000 meters max   |
| <b>Pollution Degree</b>      | 2  |
| <b>Environmental Air</b>     | No corrosive gases permitted   |
| <b>Vibration</b>             | IEC60068-2-6 (Test Fc)   |
| <b>Shock</b>                 | IEC60068-2-27 (Test Ea)  |
| <b>Oversupply Category</b>   | II   |
| <b>Heat Dissipation</b>      | 200mW  |
| <b>Enclosure Type</b>        | Open Equipment   |
| <b>Module Location</b>       | Any I/O position in a Synergy Logic Micro System   |
| <b>Weight</b>                | 70g (2.5 oz)   |
| <b>Agency Approvals</b>      | UL 61010 and UL 61010-2-201 File E139594, Canada and USA<br>CE (EN 61131-2 EMC, EN 61010-1 and EN 61010-2-201 Safety)* |

\*See CE Declaration of Conformance for details.

# Mounting Clearances

The Synergy Logic Micro System can be secured within an enclosure or cabinet using mounting rails. Use rails that conform to DIN EN standard 50022. The rails are approximately 35mm high, with a depth of 7.5 mm.

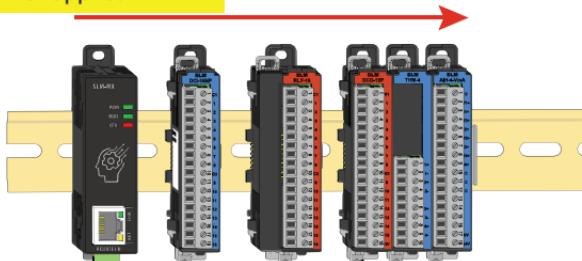


- Provide a minimum clearance of 2 inches (50mm) on all sides of the assembled system to allow proper airflow.
- Allow extra clearance for door-mounted operator panels, push buttons, lights, and other items.
- Maintain a minimum of 3 inches (76mm) of vertical clearance between the module(s) and any wire duct.
- Ensure a minimum of 7.2 inches (183mm) of vertical distance from chassis to chassis in a multiple unit installation.

# Installation

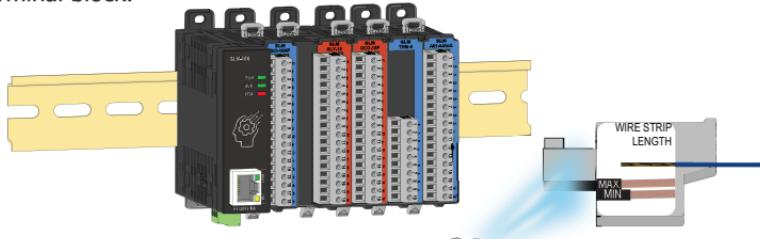
**WARNING:** Do not add or remove modules with field power applied.

**Step One:** With latch in "locked" position, align connectors on the side of each module and stack by pressing together.

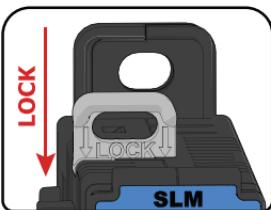
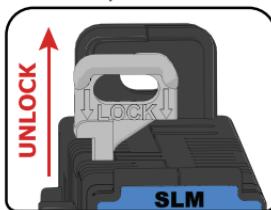


Ensure all latches are secure after modules are connected.

**Step Two:** Attach field wiring using the removable terminal block.



**Step Three:** To unstack modules, pull locking latch up into the unlocked position and then pull modules apart.



# Installation

## **Mounting within an Enclosure:**

Your selection of a proper enclosure is important to ensure the safe and proper operation of your Synergy Logic Micro System. Applications for the system vary and may require additional hardware considerations. The minimum considerations for enclosures include:

- Conformance to electrical standards
- Protection from the elements in an industrial environment
- Common ground reference
- Not exceeding the specified maximum ambient temperature
- Access to the equipment
- Security or restricted access
- Sufficient space for proper installation and maintenance of the equipment.

## **Mounting Position:**

Mount the Synergy Logic Micro system horizontally, as shown in the cabinet illustration on the following page, to provide proper ventilation. Do NOT mount vertically, upside down, or on a flat horizontal surface.

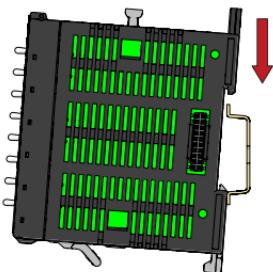
## **Temperature Considerations:**

The Synergy Logic Micro System enclosure should be installed in an environment that falls within the specified equipment operating temperature range. If the environment temperature deviates above or below the specified operating temperature range, measures such as cooling or heating the enclosure should be taken to remain within the range specification.

# Installation

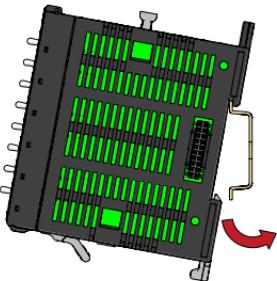
Follow the steps below to mount Synergy Logic Micro System modules onto DIN rail.

## STEP 1

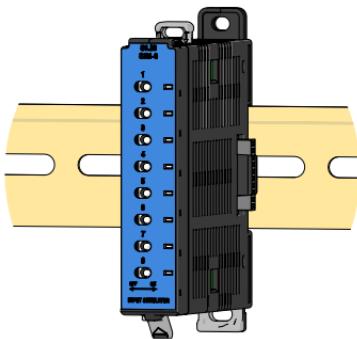


Insert DIN rail in mounting slots.

## STEP 2



Rotate module ensuring clip snaps onto rail.



Module securely mounted on DIN rail.

# Safety Precautions

Follow the manufacturer's guidelines for thermal management to prevent overheating.

**WARNING:** Thank you for choosing Synergy Logic equipment. Prior to installation or operation, carefully read this publication and any relevant materials. To mitigate potential safety risks, comply with local and national codes governing equipment installation and operation. Ensure adherence to the National Fire Code, National Electrical Code, and codes from the National Electrical Manufacturer's Association (NEMA) at a minimum. Local regulatory offices can provide additional guidance on codes and standards. Failure to comply may result in equipment damage or serious injury. Our products are not intended for High Risk Activities and do not come with a warranty for such applications. For warranty and safety details, refer to our Limited Warranty and Limitation of Liability statement which can be found at [www.synergy-logic.com](http://www.synergy-logic.com). For inquiries or additional information, contact us at [support@synergy-logic.com](mailto:support@synergy-logic.com). Synergy Logic reserves the right to modify products and publications without notice.

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To obtain warranty service, technical support, product inquiries and additional information, please email us at **support@synergy-logic.com**

NOTE: Do not return parts directly to Synergy Logic without first obtaining return authorization.

Unauthorized returns can result in unavoidable delays.