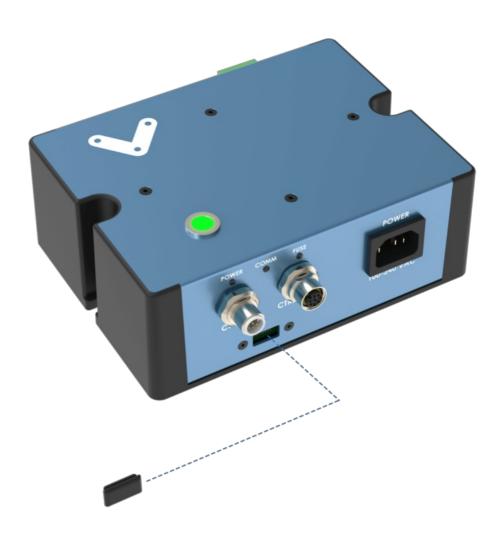
Power Switch Module Datasheet

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Overview

The Power Switch Module (CE-MD-005-0000); extends MachineMotion 2's functionality with an integrated solid-state relay, which lets you switch various AC-powered devices on and off.

This plug-and-play module requires just three connections: one to the MachineMotion 2 controller, one to an AC power outlet, and one to the device to control.

Compatible modules, including the Power Switch Module (CE-MD-004-0000), can also be daisy chained one after the other, making it possible to connect up to eight modules per MachineMotion 2 controller.

Features

- Switch AC loads up to 15 A at 120 VAC or 10 A at 230 VAC.
- Support various loads with two types of output connectors: one NEMA 5-15R, and one, terminal block.
- Connect compatible modules via daisy chain.
- Configurable address.
- Plug-and-play to access from the Control Center, MachineLogic and Python API.

Programming options

Program the Pushbutton Module using [MachineLogic] or the [Python API]. It can also be accessed from the Control Center.

Technical Specifications

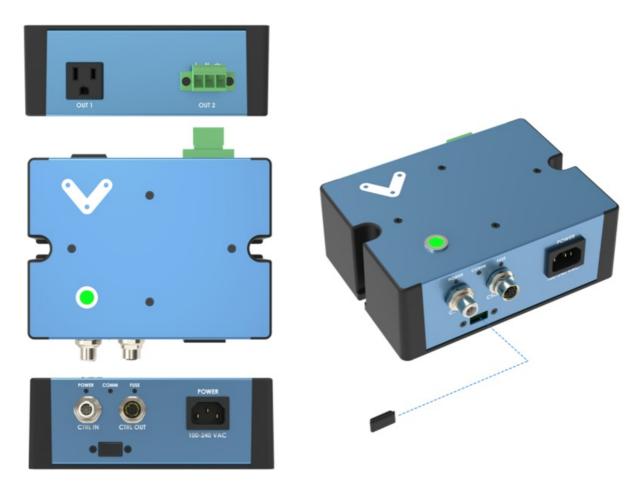


Figure 1: Power Switch Physical interface.

General

Item	Specification				
Part Number	CE-MD-005-0000				
Certifications	 UL 60730-1 CSA E60730-1 EN 61000-6-2 (EMC Directive) EN 55011:2016 (EMC Directive) EN IEC 60730-1:2013 (Low Voltage Directive) EN IEC 63000:2016 (RoHS Directive) 				
Temperature Range	0 to 40°C				
Max temperature rise from ambient at full load	32°C				
Dimensions	66 x 178 x 133.0 mm				

Item	Specification				
Weight	0.95 kg				
Material	Bottom enclosure: ABSTop enclosure: Aluminum				
Max combined output current, OUT1 + OUT2	15 A at 120 VAC, 10 A at 230 VAC				
Max voltage drop, <i>POWER</i> to <i>OUT1/OUT2</i>	1.30 V				

POWER Input Connector

Item	Specification			
Туре	IEC C14			
Supply Voltage Range	100-240 VAC			
Max supply current	15 A at 120 VAC, 10 A at 230 VAC			

CTRL IN Male M12 connector pinout

Pin	Description
Pin 1	24 VDC (input)
Pin 2	Ground (input)
Pin 3	RS-485 A (input)
Pin 4	RS-485 B (input)
Pin 5	Reserved
Pin 6	Reserved
Pin 7	N/A
Pin 8	Reserved

CTRL OUT Female M12 connector pinout

Pin	Description
Pin 1	24 VDC (output)
Pin 2	Ground (output)
Pin 3	RS-485 A (output)

Pin	Description
Pin 4	RS-485 B (output)
Pin 5	Reserved
Pin 6	Reserved
Pin 7	N/A
Pin 8	Reserved

OUT1 Output connector

Item	Specification			
Туре	NEMA 5-15R			
Maximum Output Voltage	125 VAC			
Maximum Output Current	15 A			

OUT2 Output connector

Item	Specification			
Туре	Terminal block, screw connections			
Output Voltage Range	100-240 VAC			
Maximum Output Current	15 A at 120 VAC, 10 A at 230 VAC			
Conductor diameter	24 AWG to 10 AWG			
Conductor stripping length	7 mm			
Screw terminal torque	0.55 N·m ± 0.05 N·m			

Power Switch module address configurations

Below are the valid address configurations that can be used for the Power Switch module

Valid address configurations

Switches								
	Devi	ce ID			Device Type			Module Address
1	2	3	4	5	6	7	8	
OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	Power Switch Module 1
ON	OFF	OFF	OFF	OFF	ON	OFF	OFF	Power Switch Module 2
OFF	ON	OFF	OFF	OFF	ON	OFF	OFF	Power Switch Module 3
ON	ON	OFF	OFF	OFF	ON	OFF	OFF	Power Switch Module 4
OFF	OFF	ON	OFF	OFF	ON	OFF	OFF	Power Switch Module 5
ON	OFF	ON	OFF	OFF	ON	OFF	OFF	Power Switch Module 6
OFF	ON	ON	OFF	OFF	ON	OFF	OFF	Power Switch Module 7
ON	ON	ON	OFF	OFF	ON	OFF	OFF	Power Switch Module 8

Table 1: Address configurations.