



SDN Power over Ethernet (PoE) Gateway

Part #1049452 Kit with Adapter

OVERVIEW

The SDN Power over Ethernet (PoE) Gateway is a low-voltage power distribution and network-connected module that utilizes PoE (Power over Ethernet) technology to power and control the Somfy® 24V RS485 motorization offer for shades and draperies. The SDN PoE Gateway delivers up to 51W of power and Ethernet-based connectivity. The device supports both Somfy Synergy™ API and CoAP Digital Building API, and is compatible with Molex Transcend Network Connected System. The Gateway is powered and connected via standard Cat 5e/6 UTP cable and controls Somfy Digital Network™ (SDN) devices.



TECHNICAL SPECIFICATIONS

Input Power	UPoE up to 60W
Output Power	24V DC @ 2A
Input Data	Ethernet CoAP
Output Data	SDN RS485
Standby Power Consumption	0.5 W
Material	Extruded Aluminum
Operating Temperature Range	32°F (0°C) to 104°F (40°C)
Dimensions	4.7 in. L x 2.1 in. W x 1.0 in H
Maximum Wiring Distance	Cumulative from Network switch to Gateway 328 ft. using non-shielded Category 5e cable
	Cumulative from Gateway to all motors 240 ft. when using SDN Low-voltage Motor Power and Data cable
	Cumulative from Gateway to Keypad 200 ft. using cat5e cable
	Shipping Weight 1 lb.
Indoor use only	

NOTE: Caution when mounting PoE Gateway to metal surfaces or pockets. Gateway must be isolated from possible earth or building electrical grounding, as well as from other gateways.

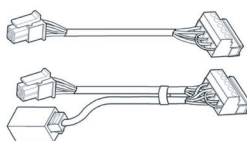
REQUIRED PINOUT AND CABLES

Gateway input pinout

- Supports both ANSI/TIA/EIA 568 A & B Standards

Gateway Output cables

- PoE Gateway to Motor Adapter (1049458), Cable length: 13 in.
- PoE Gateway to Motor/ameo® Keypad Adapter (Plenum Rated) (1049463). Cable length: 13 in. overall, 8 in. to keypad



WHAT'S IN THE BOX

- SDN Power over Ethernet (PoE) Gateway
- Instructions
- * POE Gateway to Motor Adapter

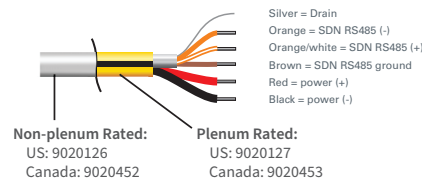
FEATURES SUMMARY

- Compatible with Molex Transcend Control System, distributes power and data to shade and drapery motors
- Uses Power over Ethernet Switches for power and data (Poe Switch must support LLDP, and be a Cisco UPoE compliant device)
- Capable of powering a single or multiple motors
- Ability to program up to 16 intermediate positions per motor
- Offers a control for groups of motors with stop and align command
- Compatible with third-party control drivers
- Easy and secure convergence of IP infrastructure
- Easy to connect/disconnect; allow daisy-chain capability
- Safe operation and industry-standard compliance (UL 2108/ UL 1310)
- Metal enclosure meets Plenum requirements

NOTE: Not allowed to be on the same subnet as Molex Gateways.

OPTIONAL ACCESSORIES

- SDN Low-voltage Motor Power and Data Cables 5 Conductor Cable



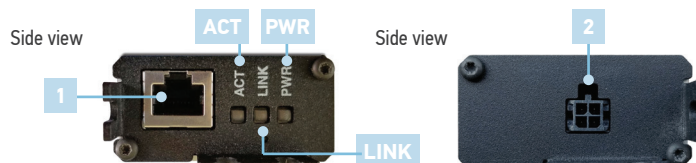
- SDN Motor Female Connector (1049440)



- SDN Motor Male Connector (1049441)



CONNECTIONS AND INDICATORS

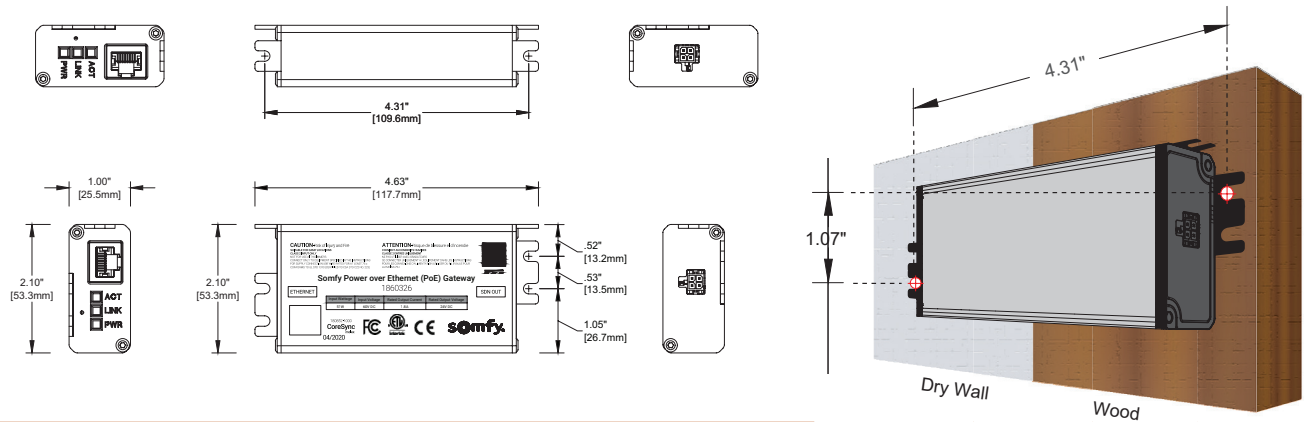


ELEMENT	FUNCTION
1	Ethernet Input Power and Data Input from PoE system
2	SDN Output to motors Power and Data output to Somfy 24V DC SDN RS485 motors

LED Indicators				
Label	Element	Color	Function ON	Function Off
PWR	Power	Green	Powered	No Power
ACT	Active Ethernet	Green	Ethernet Active	No Ethernet Activity
LINK	Communication Link	Orange	Linked (Blinks)	Not Linked (not blinking)

SDN Power over Ethernet (PoE) Gateway

DIMENSIONS



BEST WIRING PRACTICES

The diagram shown below is meant for illustrative purposes to show the connections from product to product. This device could be used in other configurations than shown below. Refer to Power over Ethernet (PoE) wire details for more wiring guidelines.

- Control up to 4 low-voltage RS485 motors from a SDN PoE Gateway.
- When operating motors in a group, motors will cascade individually
 - Aligned operation available with Sonesse® 30 RS485 DC (maximum 2 motors)
- Total wiring between Network switch and SDN PoE Gateway should not exceed 328 ft. using non-shielded Category 5e cable.
- Total wiring between SDN PoE Gateway and all motors should not exceed 240 ft. when using Somfy SDN Low-voltage Motor Power and Data Cable.
- Gateway connects to SDN low-voltage motor cable using 4 pin to Weidmueller adaptor cable.

