SDN Power over Ethernet (PoE) Gateway
Part Number: 1860326

Somfy Digital Network RS485

NOTE: Ref. # 1870445 includes the SDN Power over Ethernet (PoE) Gateway and PoE Gateway to Motor Adapter Cable (9025010) sold as a kit.

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.

SETUP
READ AND FOLLOW ALL SAFETY INSTRUCTIONS

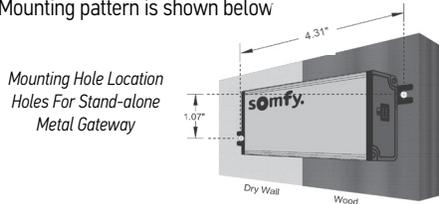### GATEWAY MUST BE INSTALLED BY A QUALIFIED TECHNICIAN.
(CHECK WITH LOCAL AND NATIONAL CODES FOR PROPER INSTALLATION)

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.

1. **CAUTION** — Observe precautions for handling electrostatic sensitive gateways.

2. **WARNING** — Risk of Electric Shock. Do not handle energized gateway with wet hands or when standing on wet or damp surfaces.

3. **WARRANTY** — voided if gateway has been modified from its original configuration.

4. Do not use outdoors.

5. Use only with Class 2 Power Unit – 60VDC maximum.

6. Conforms to UL1310 standard – Certified to CSA standard C22.2 NO. 223.

7. Mounting pattern is shown below

Mounting Hole Location Holes For Stand-alone Metal Gateway

4.31"
1.07"
Dry Wall   Wood

NOTE: Caution when mounting PoE Gateway to metal surfaces or other Gateways.
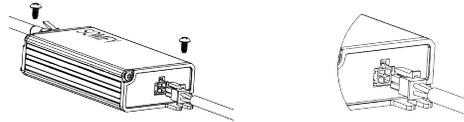
CAUTION – Risk of Injury and Fire.
Connect only to a data port on equipment certified to meet the Standard for Information Technology Equipment Safety - Part 1: General requirements, UL 60950-1.

8. Snap in the wire harness male connector into the female connector as shown below:

9. Use two #8 self-tapping screws to mount the PoE Gateway as shown *(screws not provided)*

   NOTE: Gateway must be isolated from possible earth or building electrical grounding.

10. **All motors and wiring need to be connected to Gateway prior to powering the SDN PoE Gateway**

11. On the front top side of the PoE Gateway connect PoE CAT cable until you hear a "CLICK". Use a UTP *(unshielded twisted pair)* CAT5E or CAT6 cable*. The maximum length of cable should not exceed 100 meters.

⚠ ***Please note the Power LED indicator will turn on once you have power. The LINK and ACTIVE indicators will blink on and off rapidly once you have network connection.**

12. Download and install Programming Software from this link.
    https://www.somfypro.com/services-support/software

FIGURE 1. CONNECTION INFORMATION

CONNECTIONS AND INDICATORS

This device could be used in other configurations than listed below. For specification information on individual products, see related product information. Follow all SDN wiring standards for distance limitations.

Notes:
- Control up to 4 low-voltage RS485 motors from a SDN PoE Gateway.
- When operating motors as a group, motors will cascade individually.
  - Aligned operation available with Sonesse® 30 RS485 DC (maximum 2 motors)
- Total wiring between SDN PoE Gateway and all motors should not exceed 240 ft. when using Liberty AV 9020126 cable.
- Total wiring between Network switch and SDN PoE Gateway should not exceed 300 ft. using Category 5e cable.

Use of non-shielded Category 5e cable is recommended.

	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)

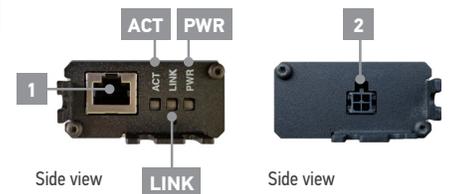

Side view   Side view

somfy®

FIGURE 2. MOTOR DATA CABLE CONNECTIONS

MOTOR COMPATIBILITY

Low-voltage (DC):

- Sonesse® ULTRA 50 RS485 (DC)
  Part Number: 1134022

- Sonesse® 30 RS485 (DC)
  Part Number: 1000658

- Irismo™ 35 Mini (DC)*
  Part Number: 1002951

*Must order SDN Module with Enclosure kit for Irismo (1870282)

MOTOR DATA CABLE INFORMATION
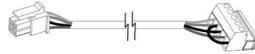
Required Cables:

NOTE: Ref. # 1870445 includes the SDN Power over Ethernet (PoE) Gateway and PoE Gateway to Motor Adapter Cable (9025010) sold as a kit.

Must order either cable per Gateway:
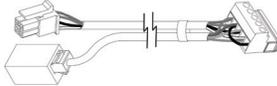
(Sold separately from 1860326)

PoE Gateway to Motor Adapter (9025010)

Cable length: 13 in.

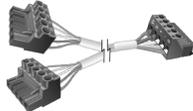**PoE Gateway to Motor/animeo® Keypad Adapter (Plenum Rated) (9025011)**

Cable length:
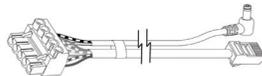13 in. overall, 8 in. to keypad

Optional Cables:

Motor Daisy Chain Adapter for PoE Gateway (9020451)

Cable length: 36 in.

DC Drapery Adapter for SDN/PoE Gateway (9025012)

Cable length: 36 in.

Low-voltage (DC) Motor Connectors and Cables

Sonesse® ULTRA 50 RS485 Data and Power Pigtail (9020004)
NOTE: Included with motor

Weidmuller Connects to Network

Sonesse® 30 RS485 Data and Power Pigtail (9020261)
NOTE: Not included with motor
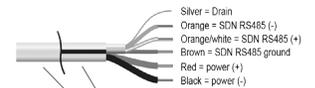
JST to Motor

Weidmuller Connector (5 pin)
(Sold separately)

- SDN Motor Female Connector (9025113)

- SDN Motor Male Connector (9020743)

SDN Low-voltage Motor Power and Data Cable
(Sold separately)

Silver = Drain
Orange = SDN RS485 (-)
Orange/white = SDN RS485 (+)
Brown = SDN RS485 ground
Red = power (+)
Black = power (-)

9020127 - Plenum Rated
9020126 - Non-plenum Rated

ORDERING INFORMATION

DESCRIPTION	PART NUMBER
SDN Power over Ethernet (PoE) Gateway	1860326 **(NOTE:** 1870445 includes 1860326 & 9025010)
PoE Gateway to Motor Adapter	9025010
SDN PoE Gateway Kit	1870445 **(NOTE:** includes 1860326 & 9025010)
PoE Gateway to Motor/animeo® Keypad Adapter (Plenum Rated)	9025011
Low voltage RS485 Motor Accessories	
SDN Low-voltage Motor Power and Data Cable	9020126/9020127 (Plenum Rated) (from Liberty AV)
Motor Daisy Chain Adapter for PoE Gateway	9020451
SDN Motor Male Connector	9020743
SDN Motor Female Connector	9025113
Sonesse® 30 DC RS485 Cable Data and Power Pigtail	9020261
Sonesse® Ultra 50 DC RS485 Cable Data and Power Pigtail	9020004
SDN PoE to DC SDN Drapery Motor Cable	9025012
SDN Module with Enclosure Kit for Irismo™	1870282

OFFICE LOCATIONS

New Jersey
121 Herrod Blvd.
Dayton, NJ 08810
P: (800) 22-SOMFY (76639) • F: (609) 395-1776

Florida
1200 SW 35th Ave.
Boynton Beach, FL 33426
P: (800) 22-SOMFY (76639) • F: (561) 995-7502

California
15301 Barranca Pkwy
Irvine, CA 92618
P: (800) 22-SOMFY (76639) • F: (949) 727-3775

Canada
5178 Everest Drive
Mississauga, Ontario L4W2R4
P: 1-800-66-SOMFY • CN: (905) 564-6446
F: (905) 238-1491

For more information visit: https://www.somfypro.com/services-support/software

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE