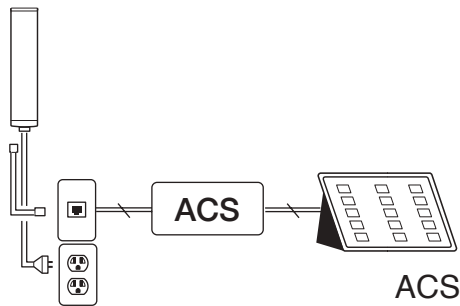# ELECTRICAL WIRING INFORMATION AND DIAGRAMS - A COMPARATIVE GUIDE FOR CONTROL SYSTEMS

DRAPERIES

ACS

MODEL 475, 140-S OR PROGRESS 25/50/80

When interfacing with a home theater, multi-room control system, or whole-house automation system; two (2) momentary dry contacts (switching contacts with no voltage inputted) are required for open-stop-close (two button) operation.

Stop Function:
For Model 140-S, close the open/close contacts simultaneously or trigger the opposite direction contact for the "Stop" function.

For Model 475, operation initiates with either the "Open" or "Close" contact, and a second action with either contact produces the "Stop" function.

For Progress 25/50/80 Ti-RF, close the open/close contacts simultaneously for the "stop" function.

All drapery motors are *"Smart Motors,"* designed with built-in logic boards.

They are all fully compatible with all major control systems, including those manufactured by AMX, Control4, Crestron Electronics, Lutron Electronics, Savant, and Vantage.
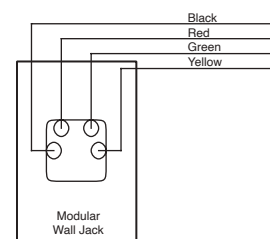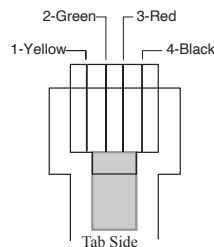

ACS
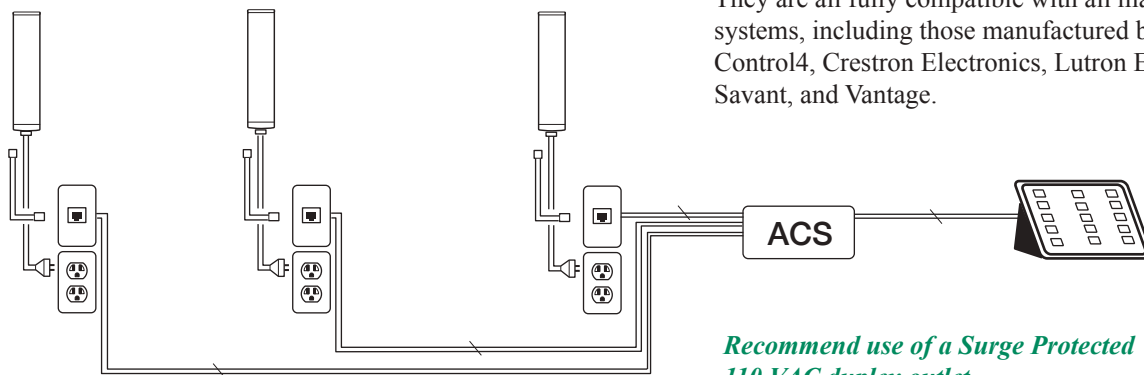
Recommend use of a Surge Protected 110 VAC duplex outlet.

Modular Wiring for Direct Drive Motors Connecting to an Automation Control System

Modular RJ-11 Plug Connection

Black - Common
Red - Open
Green - Stop (only used with 3 contact configuration)
Yellow - Close

2-Green   3-Red
1-Yellow   4-Black

Black
Red
Green
Yellow

Tab Side

Modular Wall Jack

**Questions? Call Customer Service at 310-220-2600 or 800-533-3040
or email: sales@smautomatic.com**

Electrical Wiring Information and Diagrams - A Comparative Guide for Control Systems
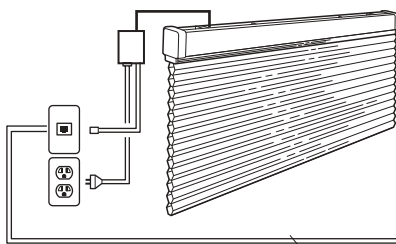
Roman and roller shades
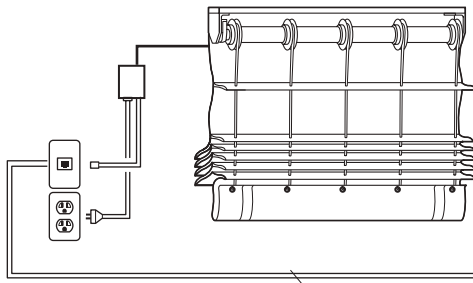
When interfacing with a home theater, multi-room control system, or whole-house automation system; two (2) momentary dry contacts are required. Operation initiates with either the "Open" or "Close" contact, and a second action with either contact produces the "Stop" function.

ACS
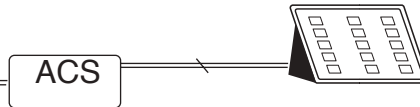
Cellular shades

When interfacing with a home theater, multi-room control system, or whole-house automation system; two (2) momentary dry contacts are required. Operation initiates with either the "Open" or "Close" contact, and a second action with either contact produces the "Stop" function.

ACS

Horizontal and Vertical blinds

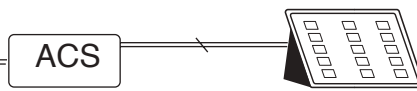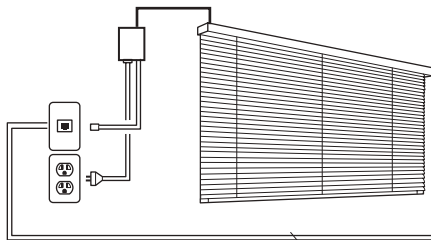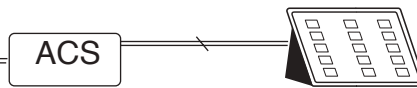When interfacing with a home theater, multi-room control system, or whole-house automation system; two momentary dry contacts are required. "Tilting" function must have timed contacts of *less* than 1.5 seconds. "Lifting" function must have a timed contact of *more* than 1.5 seconds.

ACS

Recommend use of a Surge Protected 110 VAC duplex outlet.

Modular Wiring for Shades and Blinds Connecting to an Automation Control System

Modular RJ-11 Plug Connection

Yellow - Down Direction
Green - Common (common to Yellow)
Red - Up Direction
Black - Common (common to Red)

2-Green   3-Red
1-Yellow   4-Black

Tab Side

Black
Red
Green
Yellow

Modular
Wall Jack

59

**Questions? Call Customer Service at 310-220-2600 or 800-533-3040
or email: sales@smautomatic.com**
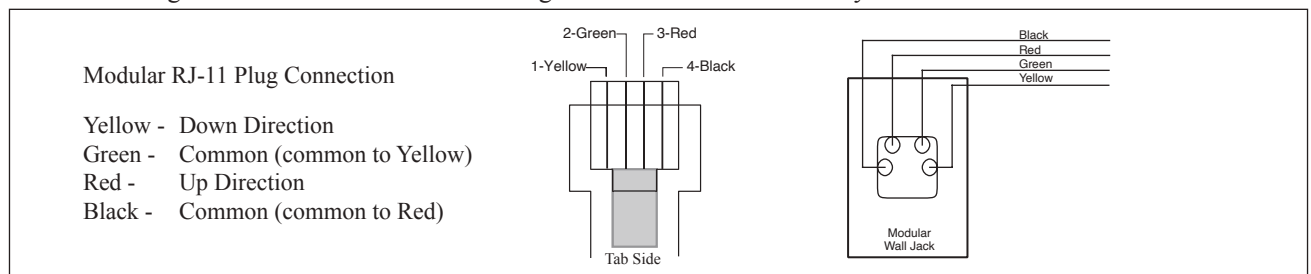
bond Bridge PRO

for Pro Installers!

model number: BD-1750
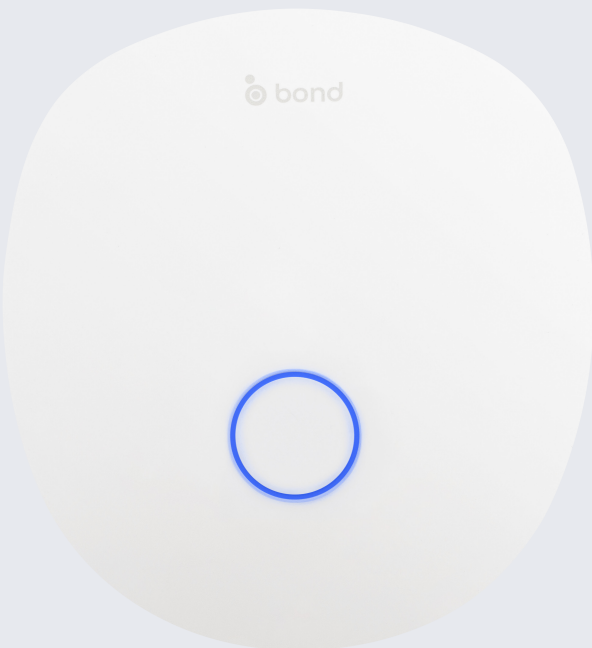
The Quick Read

✓ Bond Bridge Pro (BD-1750) is a Sub GHz to Wifi (TCP/IP) Bridge

✓ Cover remote controls between 300MHz - 450MHz*

✓ Somfy, all ceiling fans, and fireplaces

✓ 2.4GHz Wi-Fi, Ethernet + POE

✓ Extended warranty

✓ Drivers for C4, Elan, RTI, URC and more

✓ Live tech support

The Whole Story

The Pro Installer market has spoken, and we listened: Bond Bridge Pro is our new low frequency RF to Wi-Fi/ Ethernet bridge with a new look and new functionality.

It was created and designed for Pro Installers who demand to take the experience of using a Smart Bridge to the next level. It is an easier, faster, and more powerful way to connect RF controlled devices in a smart home automation portfolio.

The setup is quick and easy, and there is no need for workarounds or complicated drivers in order to connect ceiling fans, fireplaces or shades.

Just mount the Bond Bridge Pro to the wall or ceiling in a central location, to allow for full coverage and control of RF devices within the entire home. And, with PoE and ethernet, it allows a fully hard-wired integration.

And we are Open! Our open API allows integrations with all home automation systems.

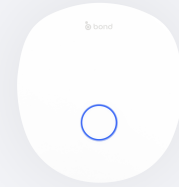## Supported Devices

Ceiling fans

Motorized shades

Fireplaces

bond · bondhome.io · customerservice@olibra.io · **Everything Smart**

Bond Bridge vs. Bond Bridge Pro

	Bond Bridge	Bond Bridge Pro
Range	2,500 sq ft	**3,500 sq ft**
Can control up to	30 devices	**50 devices**
Warranty	1 year	**3 years**
Ethernet connectivity	✗	✔
Power Over Ethernet - PoE	✗	✔
Ceiling and Wall mount	✗	✔
Works with Sidekick	✗	✔
RF	✔	✔
IR	✔	✗
Open Local API	✔	✔
In-App Live Customer Support	✔	✔

Works With

- Control 4
- Nice Home
- RTI
- URC
- Savant
- Crestron
- Hey Google
- Amazon Alexa
- SmartThings
- Somfy
- Rollease Acmeda
- Nice

And many more! Check out the ever growing list of brands that Bond Bridge Pro work with

Dimensions & Weight

6.2"

5.7"

1.4"
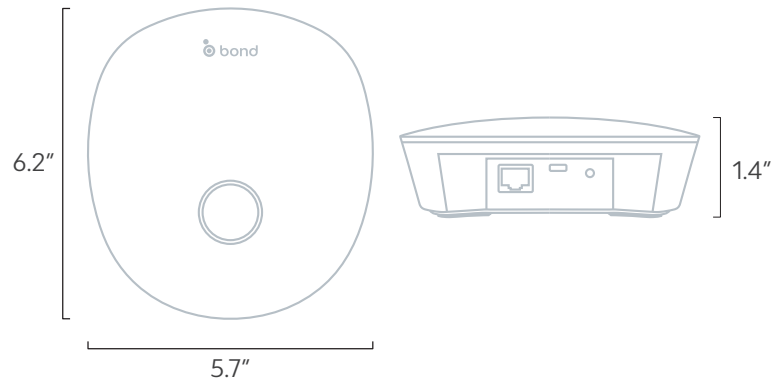
Total: 1.4" H x 5.7" W x 6.2" D **Weight:** 7.2 oz

RF Frequency
300—450 MHz*

Power
3VDC/1W or PoE

RF Reach
3,500 sq ft

Connectivity
2.4 GHz Wi-Fi or Ethernet

Cable Lenght
6 ft

* Frequency range for the North America region is restricted, with bands 321.5—336.0 MHz & 399.5—410.5 MHz unavailable. In Australia only bands 433.05—434.79 MHz are supported. In EU, supported bands 433.05—434.79 MHz, Maximum Power: -1.7 dBm, Connectivity: 2.4 GHz Wi-Fi 2412—2472 MHz

Easy and quick setup

Setting up devices on the Bond Home app takes only 30 sec per device

GET IT ON Google Play

Download on the App Store

14:40
My devices
Living Room
Shade 01 | Shade 02 | Ceiling Fan
Lights | Fireplace
Outdoor Space
Louvered Roof | Lights | Heater Right

TaHoma® switch

Item #: 1871037 • Item #: 1871038 (includes Ethernet Adaptor)

zigbee

RTS
Radio Technology Somfy®

SOMFY
Synergy™ API

Overview:

The TaHoma® switch brings connectivity and advanced control to Somfy-powered shades. This hub can control up to 60 Somfy Zigbee products and 40 channels of Radio Technology Somfy® (RTS) motorized products. The TaHoma® app enables users to setup and configure their products, and access their smart shading from anywhere.

TaHoma also enables integration with third-party control systems by leveraging the Somfy Synergy™ API.

Technical specifications:

- Radio protocol: Zigbee 3.0
- Frequency: 2.4 GHz
- Input: 100 — 240V AC / 50 — 60 Hz / Max 0.5 A
- Output: 5V DC / 2000 mA
- Plug type: A
- Consumption: 0.1 A (nominal)
- Connector: 1x Micro-USB
- Dimensions: 6.37" L x 2.65" H X 1.33" W
            (162mm L x 67.5mm H x 34 mm W)
- Operating temperature range: 32 °F — 95 °F (0 °C — 35 °C)
- Shipping weight: 0.46lbs (212g)
- Compatibility:
  - TaHoma pro
    - iOS Version 15.0 or later
    - Android Version 8.0 and up
  - TaHoma by Somfy
    - iOS Version 15.0 or later
    - Android Version 8.0 and up

WORKS WITH amazon alexa   works with Hey Google   Works with Apple Home
where applicable

- FCC ID: DWN-SWITCH
- IP Rating: IP 30 (for indoor use only)
- Warranty: 5 years (from date of manufacture)
- Certifications:
  - UL (for power supply)
  - FCC
  - Zigbee 3.0

Features summary:

- Enables third-party integration
- Create scenes and schedules for automated control
- Quickly launch scenes directly from the device or using the app
- Allows voice control with Amazon Alexa, Google Home, and Apple HomeKit (where applicable for Zigbee products only)
- Centralized control via an app
- Supports both Zigbee and RTS Somfy products

What's in the box:

- TaHoma® switch
- 1x USB power adaptor
- 1x USB power cable
- 1x Product leaflet
- 1x Legal security notice
- 1 x Onboarding flyer
- 1 x HomeKit instruction flyer
- Ethernet adaptor (1871038 only)

Connections and indicators:

Top LED

Top

Customized Scenes 1 | Stop Button | Customized Scenes 2

Front

Bottom LED

Bottom

USB Micro | Reset Button

Top LED

Scene Status	Indicator color/state	Duration
Wi-Fi research Wi-Fi lost	Blinking white 2 times Blinking 1 time	
Standing by	Off	
Scene launched	Slow blinking white	3 sec.
Scene stopped (via stop button)	Solid red	<1 sec.

Top indicator used for SCENE MANAGEMENT
Top indicator is also used:
• for Wi-Fi setting process (blinking blue) + connection outage (blinking red)
• as a restart indicator (orange)
*• as an indicator for TaHoma pro mode activation, using the new TaHoma pro app (green)*

Bottom LED

TaHoma® switch state	Indicator	
	Color	State
Box not powered	None	Off
Box powered and not connected to server	Red	Solid on
Box powered and connected to server	White	Solid on *Can be deactivated*

STANDARD use for power and server connection status

somfy®

Dimensions:

6.36" [162mm]

2.58" [66mm]

1.34" [34mm]

1.33" [34mm]
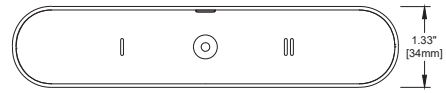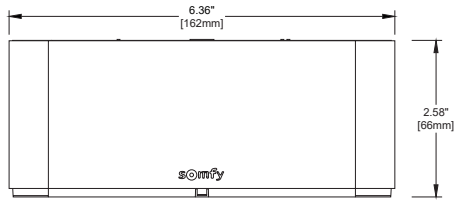
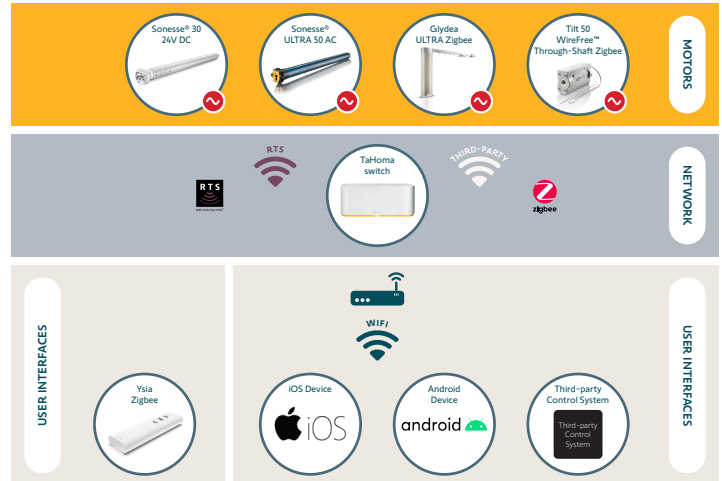## Best wiring practices:

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. Somfy does not recommend making custom cable with this device. Please ensure that the limits on the motor have been set and tested.

MOTORS

Sonesse® 30 24V DC — Sonesse® ULTRA 50 AC — Glydea ULTRA Zigbee — Tilt 50 WireFree™ Through-Shaft Zigbee

NETWORK

RTS — TaHoma switch — THIRD-PARTY — zigbee

USER INTERFACES

Ysia Zigbee — WIFI — iOS Device — Android Device — Third-party Control System

USER INTERFACES

TaHoma® Ethernet Adaptor

Item #: 9028054

Overview:

The TaHoma® Ethernet Adaptor adds an Ethernet LAN port to TaHoma, providing a fast and stable internet connection.

Technical specifications:

- Input Power: Micro USB Female: 5V, 2A (max)
- Output Power: Micro USB Male: 5V, 2A (max)
- Number of Ports: (Downlink Port) RJ45 + Micro B Female
  (Uplink Port) RJ45 + Micro B Male
- Transmission Speed: 10/100Mbps
- Operating Temperature: 32°F — 140°F (0°C to 60°C)
- Dimensions: 7.36" L x 1.39" W x 0.67" H
  (186.94mm L x 35.31mm W x 17.02mm H)
- Shipping Weight: 0.056 lbs (25.5g)
- Certifications: FCC, IC
- Warranty: 5 years (from manufacturer date)

What's in the box:

- TaHoma® Ethernet Adaptor
- Safety instructions

Installation:
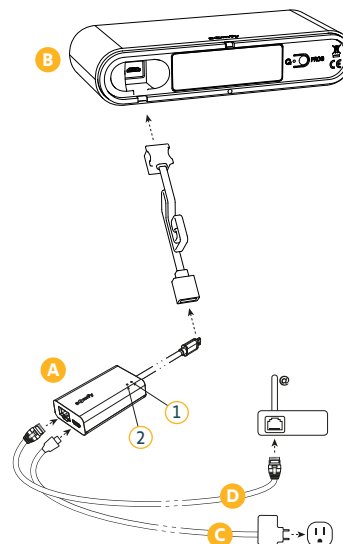
A Ethernet Adaptor
  1 Yellow light indicates data transfer
  2 Blue light indicates Ethernet connection
B TaHoma® switch
C USB Power Supply
D Ethernet Cable