

**ALL ELECTRICAL INSTALLATIONS INCLUDING WIRING SHOULD BE PERFORMED BY A QUALIFIED ELECTRICIAN AND IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.**

1. WHEN INSTALLING THE POWER CONTROLLER BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED TO REDUCE THE RISK OF FIRE, ELECTRICAL SHOCK, OR DEATH.
2. READ AND UNDERSTAND ALL INSTRUCTIONS.
3. WHEN WORKING ON ANY ELECTRICAL DEVICE OR SYSTEM ALWAYS USE EXTREME CAUTION.
4. TURN OFF POWER AT CIRCUIT BREAKER OR FUSE BOX FOR DEVICE TO BE WORKED ON PRIOR TO INSTALLATION.
5. DO NOT INSTALL THIS PRODUCT OUT DOORS OR NEAR WATER.
6. DO NOT EXCEED POWER RATINGS!
7. USE (1) PAIR #18, AWG STRANDED CONDUCTORS CLASS 2 RATED INSULATION JACKET FOR LOW VOLTAGE SWITCH CONNECTION.

**TROUBLE SHOOT POWER CONTROLLER**

**1.) Light won't turn on!**

- A.) Check that you have 120 Volts of power between black and white wire of power controller, if yes
- B.) Jump yellow and blue wire at controller if light turns on check low voltage wire or switch for continuity.

**2.) Light won't turn off!**

- A.) Check Magnet is installed in door and lined up as close as possible with minimum gap between them 1/2" Maximum.
- B.) Check yellow and blue low voltage wire at power controller by separating 18 Gage wire from switch, does light turn off? If yes!
- C.) Check low voltage wire from switch to power controller that it's not shorted together.
- D.) Check switch with continuity meter at screw terminals does switch open and close when magnet is placed in front of it and removed? If not replace reed switch!

**BETTERSWITCH Inc.**  
**Limited One year warranty**

BETTERSWITCH warrants each new unit for a period of one year from date of shipment, to be free from defects in material or workmanship under conditions of normal use and specified ambient temperatures when installed and operated Under BETTERSWITCH products specifications and in accordance With the Applicable National Electrical code and safety Standards of Underwriters Laboratories. (UL) BETTERSWITCH shall, at its option, repair or replace any defective unit Which in its opinion, has not been improperly installed, wired, insulated, Used or maintained, provided, however, that BETTERSWITCH, shall not be Required to remove, install or re-install any defective unit and provided That BETTERSWITCH, is promptly notified of said defect within the aforementioned warranty period. The foregoing warranty and optional remedies are exclusive and, except for the foregoing warranties, THERE ARE NO EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY NOR OF ANY OTHER TYPE.

In no event shall BETTERSWITCH, or any other seller be liable for consequential Or special damages, nor for any repair work undertaken without its prior written Consent, nor shall BETTERSWITCH'S liability on any claim for damages arising out Of the manufacture, sale, installation, delivery of use of said unit ever exceed the Price paid therefore. Some jurisdictions may not allow limitations on how long an Implied warranty lasts or the exclusion or limitation of incidental or consequential Damages, so the above exclusions or limitations may not apply to you.

**Warranty Service**, return unit to place of purchase or With Postage prepaid mail to:

**BETTERSWITCH INCORPERATED**  
7272 Saturn Dr, Suite O  
Huntington Beach CA 92647  
Phone (714) 848-1682

**BS-250 Flush Mount Switch & POWER CONTROLLER (BS-201)**  
By **BETTERSWITCH INCORPERATED**  
**Installation Instructions and Wiring Diagram for Steel Doors & Jamb**

**Power Rating:** 120 VAC/60 Hz. 10 AMP Resistive load.  
**Load Type:** Resistive Load Only.  
**ETL Approved for UNITED STATES and CANADA.**

- \*Consult BETTERSWITCH Inc, for technical information.
- \*Two or more BETTERSWITCH reed switches can be wired together parallel to control one betterswitch power controller
- \*Two or more lights or receptacles can be operated by one betterswitch power controller.

To be used in conjunction with BETTERSWITCH reed switches; Normally Closed UL & ULC Listed Type with or without suffixes WG and XWG

**Caution: To Avoid Fire, Shock or Death: Turn off power at Circuit Breaker or fuse to fixture, receptacle, motor or devise to be worked on prior to installation.**



Conforms to ANSI/ UL std.508  
Certified to CAN/ CSA std.  
C22.2 No. 14

## INSTALLATION:

- 1.) Turn Off Power at Circuit Breaker or Fuse Box for circuit to be worked on prior to removing cover plate from Motor, Light fixture, Receptacle or Device to be controlled and expose wiring.
- 2.) Route Low Voltage wire (1) pair # 18 AWG stranded Conductors class 2 Rated insulation jacket from Motor, Light Fixture, Receptacle or Device to remote Location where mounting of switch is located.
- 3.) Install Switch in steel jamb: \*Spacers are only use on steel doors and steel jambs if jamb is steel and door is wood spacer is required in jamb only, 3/8" hole in spacer to accept switch or magnet. (EXAMPLE)

A.) **Steel jamb:** Drill hole in top or strike side of doorjamb using a 3/4" Drill bit to allow spacer & switch to be Pushed into hole using your thumb \*DO NOT DRIVE SPACER INTO HOLE IF YOU CANNOT PUSH SPACER INTO HOLE WITH THUMB, MAKE HOLE LARGER. Make up # 18 AWG conductors to screw terminals on bottom of switch before mounting switch into spacer.

**Be careful not to over tighten.**

B.) **Steel door:** Drill 3/4" hole in door side and install spacer & magnet with thumb. \*NOTE: The switch and magnet should line up as close as possible with minimum gap between them 1/2" Max.

4.) **Install Power Controller:** making up conductors per diagram. Using the supplied orange wire connectors. After all the connections have been made, the BS-250 can be placed into a electrical junction box. Secure the box lid and reapply power to branch circuit.

(EXAMPLE)

A.) **Black wire:** To incoming power (Line)

B.) **Red wire:** To switch leg (load) of device your controlling.

C.) **White wire:** To Neutral wire.

(Low Voltage Wiring) Using the supplied Blue wire connectors.

D.) **N/O installation, Light is on** when door is closed! use (DIAGRAM NO.1.) tie the Blue & Yellow Low Voltage wires together, then Make up wire to one terminal (Landing Lug) of remote switch using (CLASS 2 TWO CONDUCTOR WIRE #18 AWG.) see DIAGRAM NO. 1, Make up Orange wire to second terminal (Landing Lug) of remote switch using the second wire of (CLASS 2 two conductor wire) Recheck all wiring connections before restoring power to circuit.

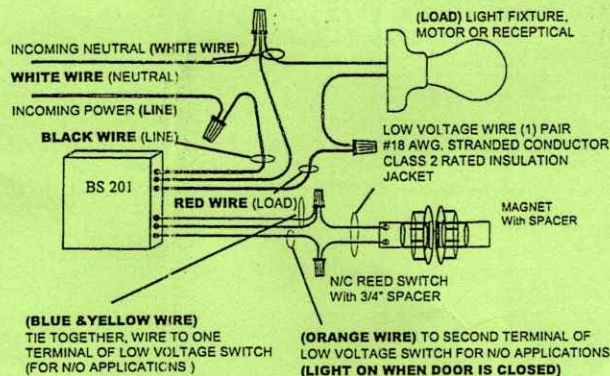
\*Operated Load: is activated by mating the magnet to the low voltage switch, which is wired to the power controller and will send line voltage to fixture or any other device to be controlled!

E.) **N/C installation, Light is off** when door is closed! use (DIAGRAM NO.2) Cap off Orange wire with wing nut, Make up the Blue & Yellow Low Voltage wires to the 2- terminals (Landing Lugs) of remote switch using (CLASS 2 TWO CONDUCTOR WIRE #18 AWG.) Recheck all wiring connections before restoring power to circuit.

\*Operated Load: is activated by separating the magnet from the low voltage switch, which is wired to the power controller and will send line voltage to fixture or any other device to be controlled!

5.) Re-install Receptacle plate, motor housing, light fixture cover plate or cover plate of device to be controlled and restore power to Circuit.

(BS-250 Series Diagram 1)  
BETTER SWITCH POWER CONTROLLER

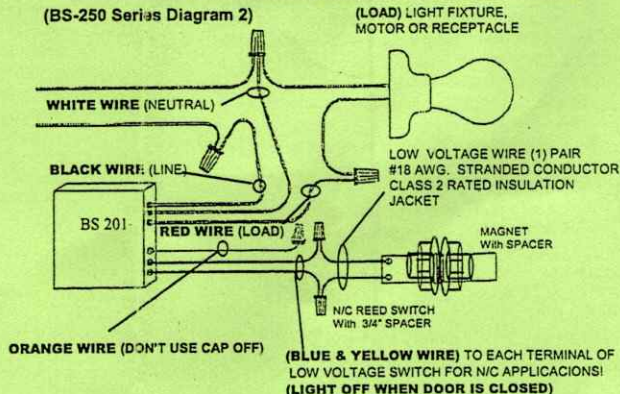


(BLUE & YELLOW WIRE)  
TIE TOGETHER, WIRE TO ONE  
TERMINAL OF LOW VOLTAGE SWITCH  
(FOR N/O APPLICATIONS)

(ORANGE WIRE) TO SECOND TERMINAL OF  
LOW VOLTAGE SWITCH FOR N/O APPLICATIONS!  
(LIGHT ON WHEN DOOR IS CLOSED)

In accordance with the National Electrical Code, Article 725-54 (a), (1) Exception No.3, or the Canadian CE Code Handbook, Rule 16-212, Sub rule (4) —The BS Power controller can be wired to a remote Switch using Class 2 wiring methods. Check with your local electrical inspector to Comply with local codes and wiring practice.

(BS-250 Series Diagram 2)



ORANGE WIRE (DON'T USE CAP OFF)

(BLUE & YELLOW WIRE) TO EACH TERMINAL OF  
LOW VOLTAGE SWITCH FOR N/C APPLICATIONS!  
(LIGHT OFF WHEN DOOR IS CLOSED)