

Figure 2 - Unit Specifications

Power Consumption:	12 milliamps
Input Voltage:	9-12 VDC (supplied by the i-PoWER)
Load Types:	None
Rated Load:	None
Operating Temperature:	-20° to 40° C
Storage Temperature:	-40° to 80° C
Humidity:	0 to 95% RH non-condensing

i-ON-Dsl

Models

i-212(W)
i-212 (I)
i-212 (A)

TO BE INSTALLED AND/OR USED IN ACCORDANCE WITH APPROPRIATE ELECTRICAL CODES AND REGULATIONS

IMPORTANT: These instructions were written with the assumption that the installer is familiar with general wiring practices. If you are not sure about any part, consult a qualified technician before attempting to install this device. These instructions list technical information, installation and operating instructions, wiring diagrams, and trouble shooting procedures.



General Product Description

The i-ON-Dsl™ switch is a dimmer slave switch for use with the i-LiNE lighting control system. The i-ON-Dsl slave switch can be used for a multitude of operations, including lighting control, remote control, drapery control, and many more functions.

The construction of the i-ON-Dsl slave switch includes a rugged plastic enclosure with a paddle shaped switch for dimming operation. A row of status indicator LEDs are located on the right side. The buttons are designed to provide a firm tactile feedback to the user. The two RJ-45 connectors located on the rear of the i-ON-Dsl slave switch allow for quick, reliable communication cable connections and ease of installation.

Specifications and Installation Instructions

To Avoid fire, shock, or electrocution, turn off power at circuit breaker or fuse and test that the power is off before wiring.
Only use this device with specified wiring.
Only power the i-ON-Dsl switch using the i-PoWER network interface module.
Before installing, consult local building codes and read the entire instructions.
Failure to comply exactly may permanently damage the unit.

FCC Compliance Statement

NOTE: This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to Part 15, Subpart B of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

IMPORTANT NOTICE

Attention Installers and Inspectors

This device has been designed to comply with the National Electrical Code concerning the use of low voltage cabling in the same enclosure as 120 VAC cable. The i-LiNE device network connecting cable MUST have a jacket insulation rating of 120 VAC or greater and be UL listed. Please refer to the NEC code Chapter 3 Section 300.3(c)(1) for additional information.

NEC 300.3(c)(1)

(C) Conductors of Different Systems.

(1) 600 Volts, Nominal or Less. Conductors of circuits rated 600 volts, nominal, or less, ac circuits, and dc circuits shall be permitted to occupy the same equipment wiring enclosure, cable, or raceway. All conductors shall have an insulation rating equal to at least the maximum circuit voltage applied to any conductor within the enclosure, cable, or raceway.

NEC 725.55(D)

(D) Associated Systems Within Enclosures. Class 2 and Class 3 circuit conductors in compartments, enclosures, device boxes, outlet boxes, or similar fittings shall be permitted to be installed with electric light, power, Class 1, non-power-limited fire alarm, and medium power network-powered broadband communications circuits where they are introduced solely to connect the equipment connected to Class 2 and Class 3 circuits, and where (1) or (2) applies:

- (1) The electric light, power, Class 1, non-power-limited fire alarm, and medium power network-powered broadband communications circuit conductors are routed to maintain a minimum of 6 mm (0.25 in.) separation from the conductors and cables of Class 2 and Class 3 circuits.
- (2) The circuit conductors operate at 150 volts or less to ground and also comply with one of the following: a. The Class 2 and Class 3 circuits are installed using Type CL3, CL3R, or CL3P or permitted substitute cables, provided these Class 3 cable conductors extending beyond the jacket are separated by a minimum of 6 mm (0.25 in.) or by a nonconductive sleeve or nonconductive barrier from all other conductors. b. The Class 2 and Class 3 circuit conductors are installed as a Class 1 circuit in accordance with 725.21.

LIMITED ONE YEAR WARRANTY AND EXCLUSIONS

Electronic Design Technology warrants to the original customer purchaser and not for the benefit of anyone else that this product at the time of its sale by Electronic Design Technology is free of defects in materials and workmanship under normal and proper use for one year from the purchase date. Electronic Design Technology's only obligation is to correct such defects by repair or replacement, at its option, if within such one year period the product is returned pre-paid, with proof of purchase date, and a description of the problem to Electronic Design Technology, Attn: Warranty Department, 707 North Green Street, Longview, TX 75601. This warranty excludes and therefore is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. There is no other or implied warranties of any kind, including merchantability and fitness for a particular purpose, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a particular purpose, is limited to one year. Electronic Design Technology is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of any equipment, lost sales or profits or delay of failure to perform this warranty obligation. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

CAUTION

This product is neither designed nor intended for medical, medical related, life sustaining, life support, or other critical applications in which product failure could lead to personal injury or death. Use of this product as a component of devices and/or systems having these applications is neither warranted nor authorized.

Important Notes

When using this unit, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or personal injury.

- 1) Read and understand all instructions.
- 2) Follow all warnings and instructions marked on this unit.
- 3) Unplug this unit before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- 4) Never push any objects through slots in this unit. This may result in the risk of fire or electric shock. Never spill any liquid on the unit.
- 5) To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorized service center when service is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.
- 6) Install in accordance with all national and local electrical codes.
- 7) Do not paint the i-ON-Dsl slave switch enclosure or mounting bracket.
- 8) Operate between 0°C (32°F) and 60°C (104°F).
- 9) Verify that all wiring is correct. Incorrect wiring may permanently damage the unit.

Installation Instructions

- 1) Verify that all power to unit is turned OFF and turn OFF the i-PoWER-(x) module.
- 2) The typical iLiNE connection is a standard CAT 5 extension cable, see Figure 1 for wire connections to an RJ-45 Jack.
- 3) Verify that the RJ-45 connectors are properly crimped and that all wires make proper contact. Use of a cable tester is recommended.
- 4) Plug cables into the back of the i-ON-Dsl switch. It does not matter which jack the cable is plugged into, the i-ON-Dsl will auto sensing which connection is what. (see figure 4).

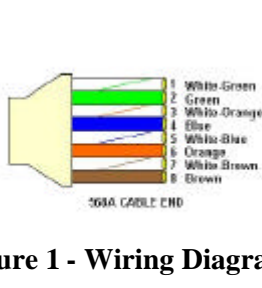


Figure 1 - Wiring Diagram

- 5) If the i-ON-Dsl switch is the last unit in the string, make sure that a terminator is plugged into the open jack.
- 6) Push wire (s) into wall box. Do not pinch wires.
- 7) Mount i-ON-Dsl switch to wall box or bracket using screws provided.
- 8) Mount faceplate with screws provided with faceplate.
- 9) Verify that all the i-ON-Dsl switches in the string are properly connected.
- 10) Apply power to the i-PoWER-(x) Network Interface Module. (See i-PoWER-(x) instructions for unit setup). The i-ON-Dsl switch LEDs will commence to flash. This indicates that the i-ON-Dsl switch is obtaining its unique address in the string. Addressing is always sequential with the i-LiNE switch closest to the i-PoWER-(x) obtaining address 001.
- 11) Upon completion of the setup routine, the i-ON-Dsl switch LEDs will stop flashing and turn off.

Unit Configuration

NOTE: Before initial connection of power, verify that all installation instructions have been completed.

1. After power has been applied for the first time, the LED will commence to flash. This indicates that the i-ON-Dsl slave switch is obtaining its network address.
2. Upon completion of address acquisition, the i-ON-Dsl slave switch is ready for programming.
3. To reset this node refer to the i-LiNE installation manual. The i-ON-Dsl is reset by completing a system reset. Please consult the i-ON-MB to accomplish this.

For additional system and unit configuration instructions, please refer to the i-LiNE Installation Manual.

Troubleshooting

NOTE: If the i-ON-Dsl switch fails to function properly with power applied, proceed through the following checks:

1. Confirm that the i-PoWER-(x) power LED is on and that power is applied to the i-PoWER-(x) Module.
2. Confirm that the physical disconnect is in the "ON" position.
3. Check the i-LiNE string of switches, if this LEDs are flashing rapidly, then the i-LiNE string is not correctly configured, or that there is a wiring problem. Use an i-ON-MB to "Reset" the complete string.
4. Confirm that the i-ON-Dsl switch is wired exactly as shown in the wiring diagram that matches your application.
5. Confirm that all wire connections are correct and making contact.
6. Confirm that the green LEDs are on. (This may take a few minutes).
7. Refer to i-LiNE user installation manual for additional troubleshooting guides.
8. If the i-ON-Dsl slave switch still fails to operate after the above checks have been performed, remove the unit and return to place of purchase.

NOTE: If the i-ON-Dsl slave switch fails to function after functioning correctly, proceed through the following checks:

1. Confirm that the green LED is on or flashing.
2. Verify that all connections are secure. Please follow the installation instructions shown in this manual.
3. If adding new nodes to a string, disconnect the section of the string with those new nodes.
4. If the i-ON-Dsl slave switch still fails to operate after the above checks have been performed, remove the unit and return to place of purchase.

FOR ADDITIONAL PRODUCT SUPPORT VISIT WWW.EDT.BIZ.

Figure 3 - Front Features Diagram

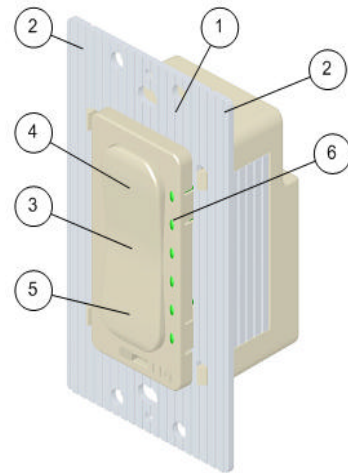
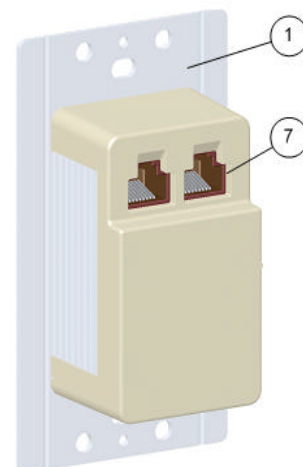


Figure 4 - Back Features Diagram



- | | |
|-----------------------------|----------------------------------|
| 1. Heat Sink | 5. Bottom Switch |
| 2. Removable Heat Sink Tabs | 6. LEDs - Light level indicators |
| 3. Switch Paddle | 7. Network Connections |
| 4. Top Switch | |