



Project Name: \_\_\_\_\_  
 Part Number: \_\_\_\_\_ Date: \_\_\_\_\_

**Features**

- Dialog® digital programmable network switch
- 1-button with UP/DOWN control
- Simple 2-wire connection
- LED status indicator
- Programmable via handheld infrared device



ASHRAE 90.1 Compliant

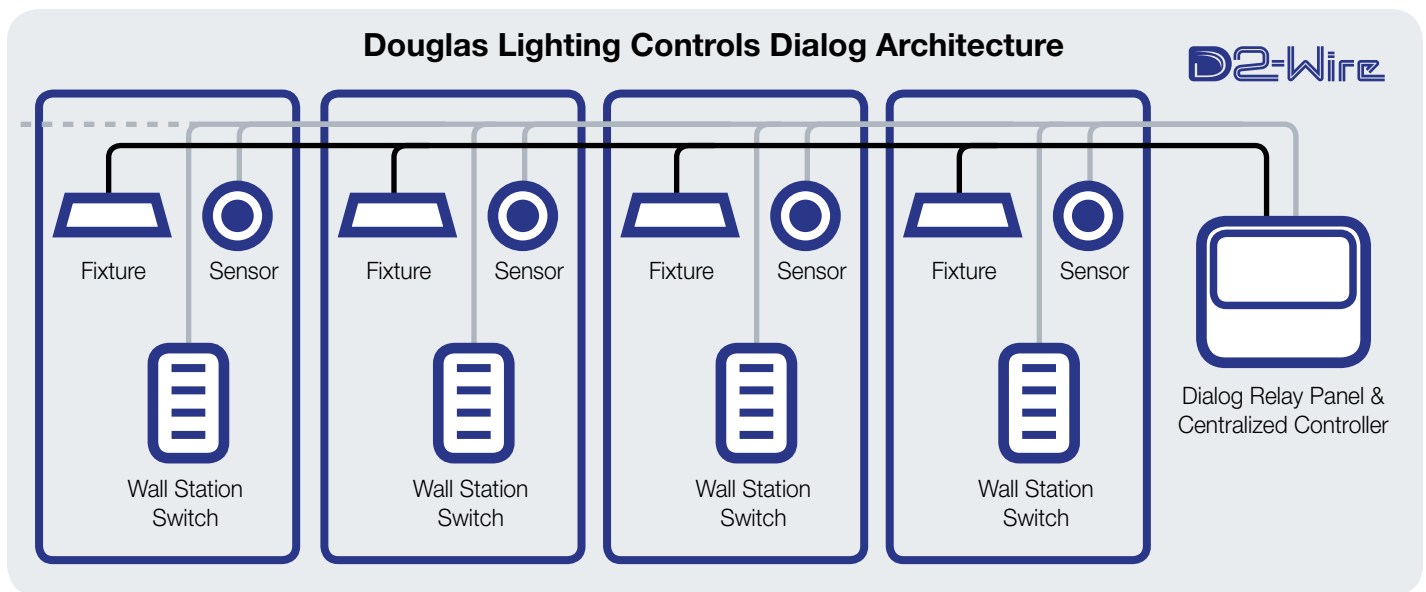
The Dialog wall dimming switch is a part of a Dialog centralized control system as it provides user input into the system via a simple to understand push button/dimming interface. The Dialog dimming switch comes as a 1 button plus dimming module to provide flexible and attractive solutions for the dimming control requirements of your lighting control system. The dimming switch modules only require connection to the 2-wire (18/2 AWG) data line. Should a dimming switch station require expansion, connect extra modules to the existing data line.

The dimming switch has an LED indicator beside each button as well as multiple LED indicators beside the dimming buttons to show the real-time status of the targeted output or group. Orange LED indicated ON and blue LED indicates OFF. Each dimming switch is programmable from a handheld IR programmer (provided by Douglas), therefore dimming switches do not need to be removed, or disassembled when programming is required.

The Dialog 1-Button & Dimmer Wall Station Switch is part of the Dialog System which includes relay panels, control cards and peripheral devices (Occupancy Sensor, Daylight Sensor, Wall Station Switches). Systems are built project specific, then factory programmed and tested before shipping to site. On-site support for commissioning is provided as needed.

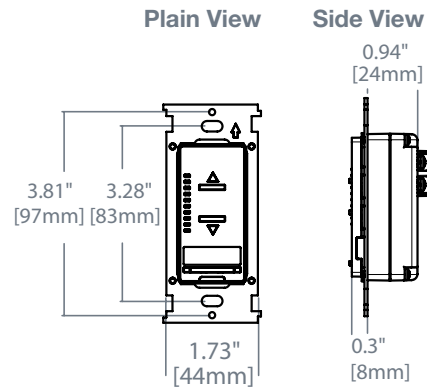
**Typical Applications:** Where dimming input is required for system dimming control.

PART NUMBER	DESCRIPTION
WSD-3501	Data line dimmer and switch – 1 gang, 1 channel, infrared set; Signal draw 3.5mA



### WIRING A DIALOG DIMMER SWITCH

- Connect switches to the 2-conductor data line.
- Connection is low voltage, non-polarized t-tap capable.
- The maximum one way measurement from the controller to the switch device is 1000'. Should longer lengths be needed, use WAM-3190 amplifier.
- The Dialog dimmer switch draws power from the 2-conductor data line. Each switch uses 3.5mA of power. There is 500mA of total power available from the Dialog line for all devices. If power is insufficient, use WAM-3190 amplifiers for additional 500mA



### INSTALLATION

- Connect the 2-wire Dialog data line to the back of each switch module and install modules in standard wall boxes.
- Each switch module must have an output address or group code assigned.
- A Dialog system local network can have a total of 252 output and 127 group codes. A group code can host one, some, or all of the output addresses. There is no limit to the number of switches that can be set to the same address or group code.
- A switch targeted at a group code requires the group code to have an existing program to function
- A switch targeted directly to an output address requires no extra programming.

### PROGRAMMING

- A push button switch can send standard action commands:
    - o ON/OFF (output or groups)
    - o Dim UP/DOWN (output or groups)
  - In addition to standard action commands, presets can also set operating modes. Modes determine how input devices and output of the group behave.
- Example 1: quiet time switch: disable motion sensor for 1 hour  
 Example 2: during off hours, switch activates group for 30-mins  
 Example 3: for a period of time, lock output to a defined level

<b>POWER</b>	• Dialog 2-wire (18/2 AWG) low voltage, non-polarized, power and data bus
<b>COMMUNICATION</b>	• Dialog 2-wire (18/2 AWG) low voltage, non-polarized, power and data bus
<b>CURRENT DRAW</b>	• 3mA
<b>ENVIRONMENT</b>	• Indoors, stationary, non-vibrating, non-corrosive atmosphere & non-condensing humidity • Ambient operating temperature: +5°F to +120°F (-15°C to +50°C)
<b>WARRANTY</b>	• 1 year warranty

\* Application and Performance Specification Information Subject to Change without Notification

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