HUNT Dimming

Simplicity™ Series Digital Dimming System
SSD-12/20 12 circuit, 20 amp
Microprocessor Controlled Digital Dimming Panel

Also available in 277 volt

HUNT's 12 circuit rack is the industry's smallest, lightest-weight, convection-cooled dimming panel.

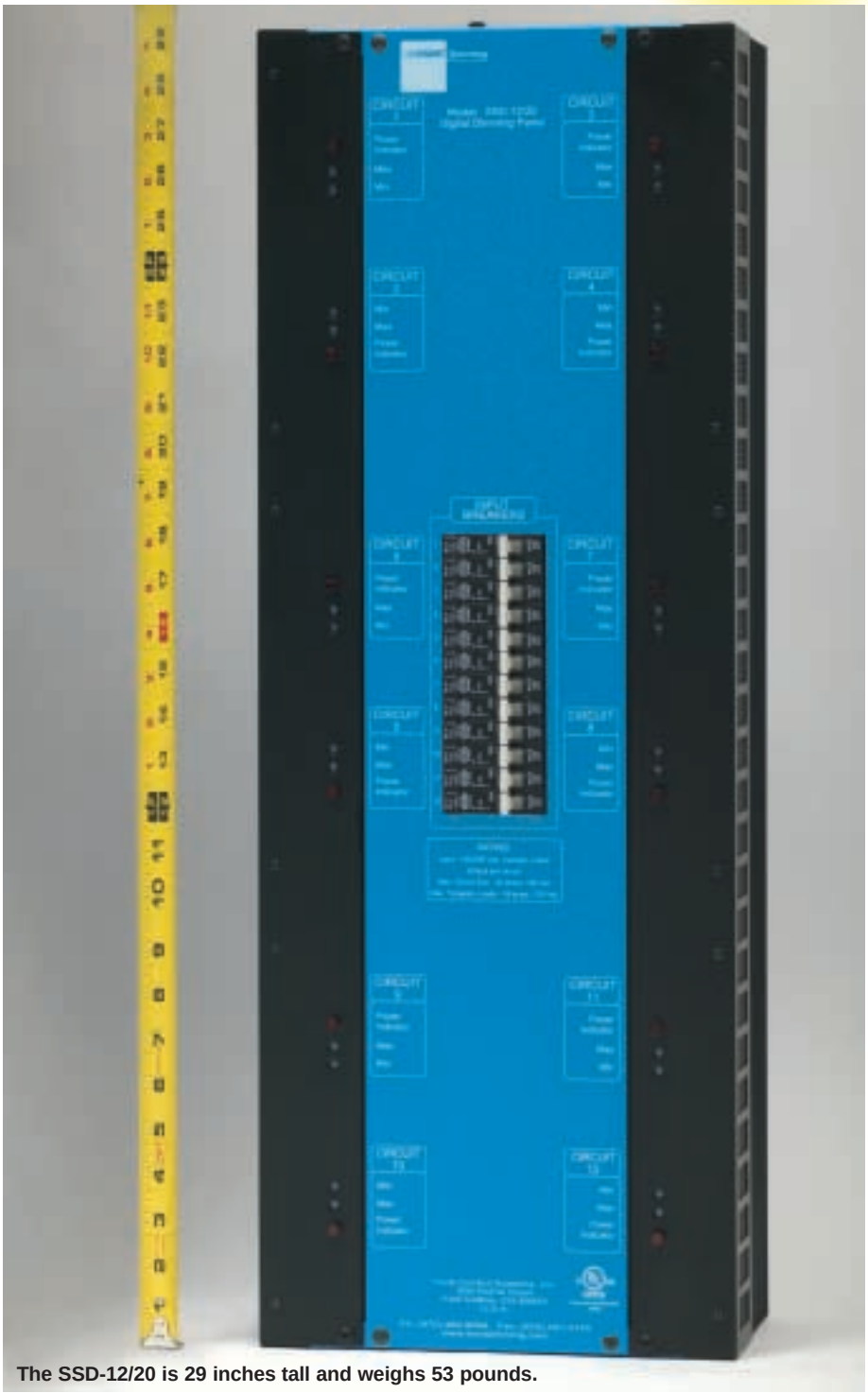
The *Simplicity™* 12 Circuit Dimming Panel contains 12 individually addressable outputs. Each circuit is rated at 20 amps and is capable of being dimmed or switched. It is possible to have up to 256 dimming circuits on a single data highway.

As few as four and as many as twelve power modules can be provided per dimming panel. Each dimming module is multi-rated to control incandescent, fluorescent (phase-control), low voltage (electronic or magnetic), neon, cold-cathode, fan-speed and non-dim (or switched) sources.

Wall mounted control stations can be configured to control any of the loads connected to the dimming panel. Flexibility allows for up to 128 control devices on the data highway.

The *Simplicity™* 12 circuit dimming panel is the ideal choice for larger installations, such as hotels, museums, restaurants, prestigious homes, etc.

Compatible control devices include standard pushbutton control stations and LCD Touchscreens, which can be connected directly to the data highway. Infrared transmitters are also available for local control or programming of the system. Other control devices may be connected indirectly using a multipurpose interface.



The SSD-12/20 is 29 inches tall and weighs 53 pounds.

Model SSD-12/20 Specifications

Environmental Conditions		
Temperature	32° to + 104° F	
Rel. Humidity	5% to 90%; no condensation	
Voltage Input		
Connection	80A, 3 Phase (120 V or 277 V)	
Outputs		
Max. dimmed/switched load	20A per channel	
Maximum total load	204A (68A, 3 Phase) (120 V or 277 V)	
Control Devices		
Power supply	+24V DC, GND	
Control input	RS-485 network (data+, data-)	
DIP Switches		
	set system address and master/slave operation (see 'setting addresses' section of Installation Manual)	
LED Indicators		
Outputs	12 red LEDs indicate status of individual circuit 2 red LEDs indicate status of communications 2 bi-color LEDs indicate status of processor (green = ok, red I= failure)	
Communication		
Bus cable	2 twisted-pair cable, 100 ohms impedance	
Types	Belden 9729, Belden 9730, or equivalent	
Connection	5-way Weidmuller-type connector	
Housing		
	120 V Model	**277 V Model**
Dimensions	29 in. (H) x 10.75 in. (W) x 7.5 in. (D)	37 in. (H) x 10.75 in. (W) x 7.5 in. (D)
Weight	53 lbs	69 lbs
Material	18 gauge steel enclosure with powder coated paint	18 gauge steel enclosure with powder coated paint
Mounting	vertically mounted on a flat surface	vertically mounted on a flat surface
Safety		
Ratings	UL and cUL Listed (120 V and 277 V), Title 24 certified	

The SSD-12/20 weighs 53 pounds.

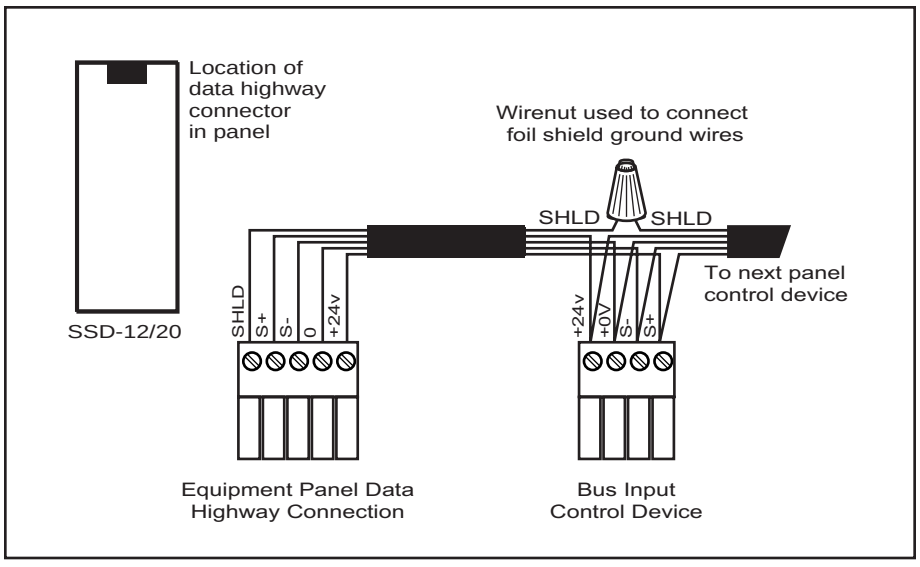


Figure 1. Wiring diagram

CONTROL WIRING:

Connection to the data highway is via a 5-way Weidmuller-type connector, which is located at the top of the panel (Figure 1).

INSTALLATION:

The dimming panel can be installed in any dry location that is not near water pipes, sprinklers, sources of large electro-magnetic fields such as air conditioning motor assemblies, or in areas where the ambient temperature is likely to exceed 104° F (40° C).

The panel should also be accessible for initial installation and regular maintenance.

MOUNTING:

The dimming panel should be vertically mounted on a flat surface. Tabs for mounting screw locations are provided at three points on the panel chassis (Figure 2).

OUTPUT CONNECTION WIRING:

Connection to the loads is made at the output terminals located at the base of the dimming panel. A three-tier terminal is then provided for each dimmer circuit. A cover plate is located at the bottom of the panel for cable entry.

Control devices can be connected to the data highway either directly from the panel or indirectly, using a multi-purpose interface (Figure 3).

INPUT CONNECTION WIRING:

Connection to the main power is made at the input block located inside the panel.

The input block is designed for cable with a maximum diameter of 2 inches. The panel comes set for three-phase service.

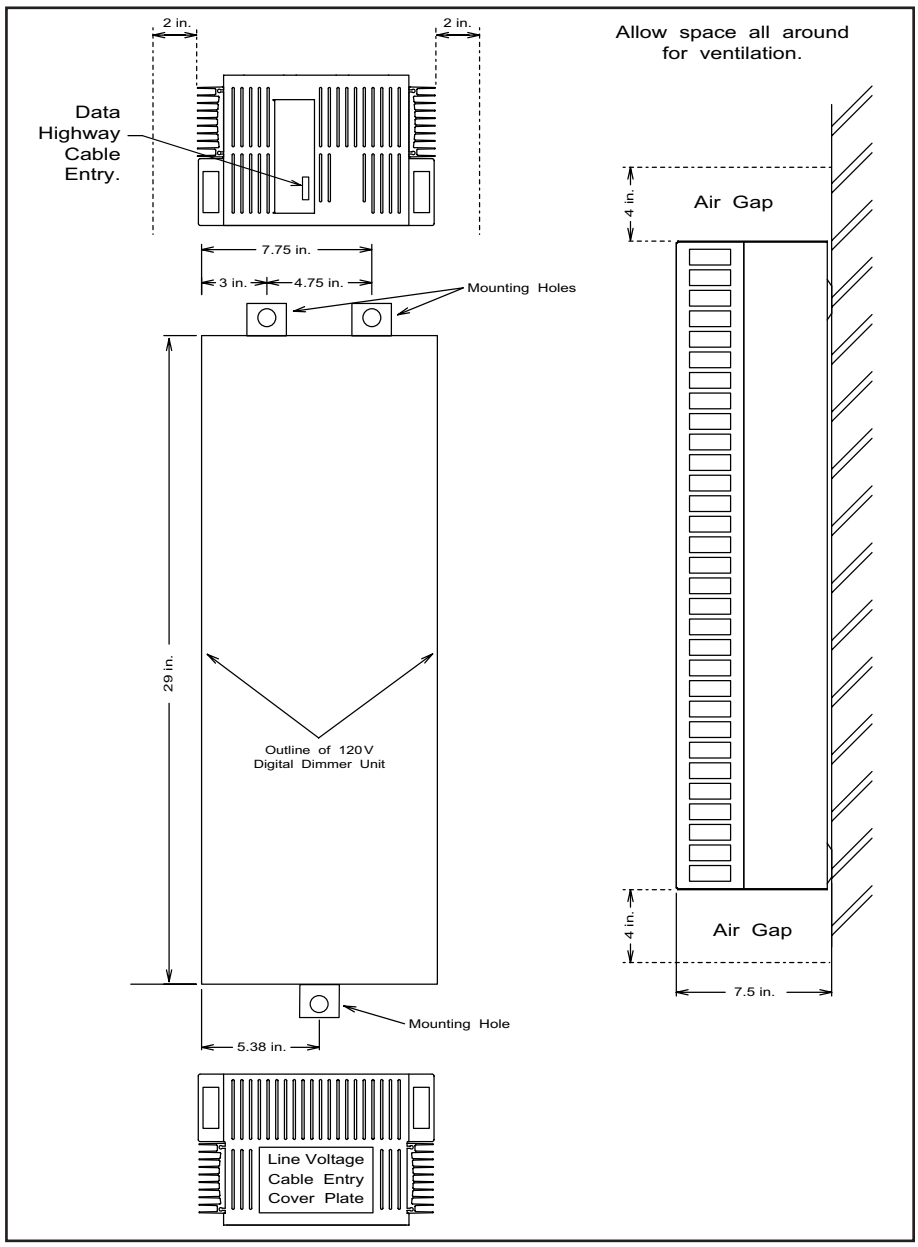
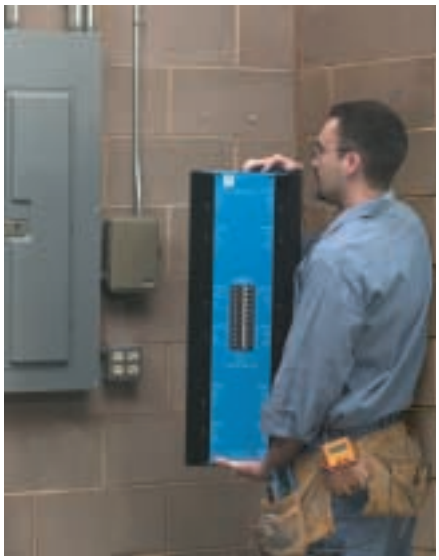


Figure 2. Dimensions of dimming panel showing cable entry locations



HUNT panels are designed to fit in tight spaces.

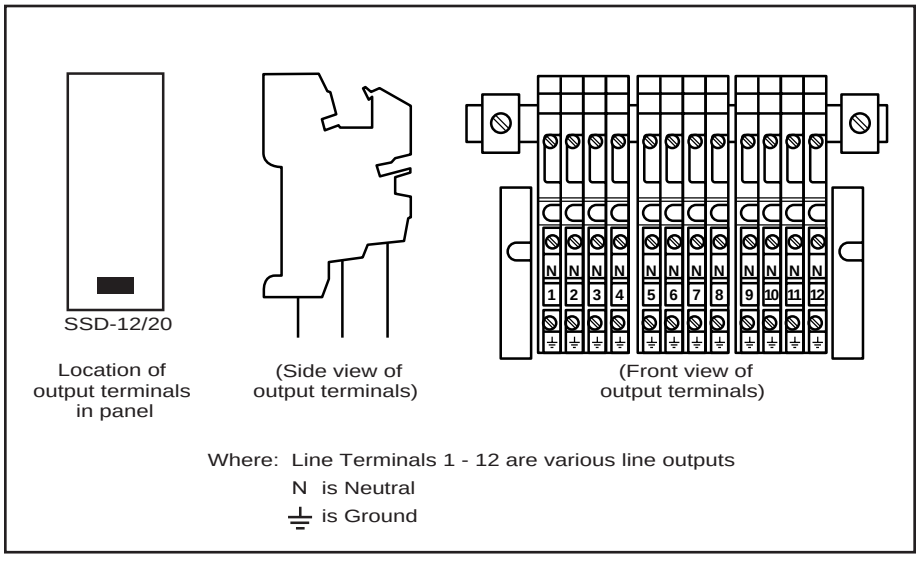
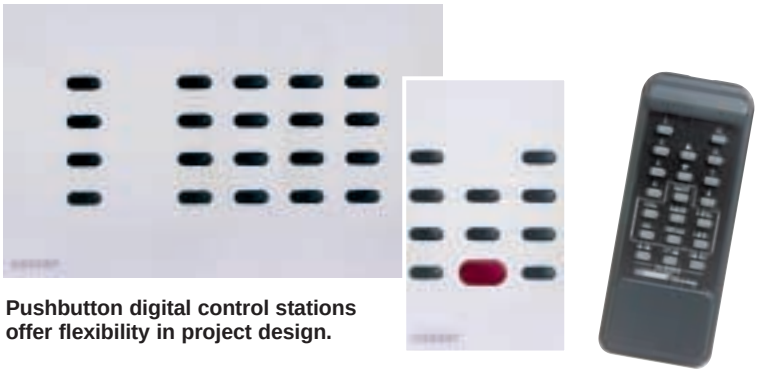
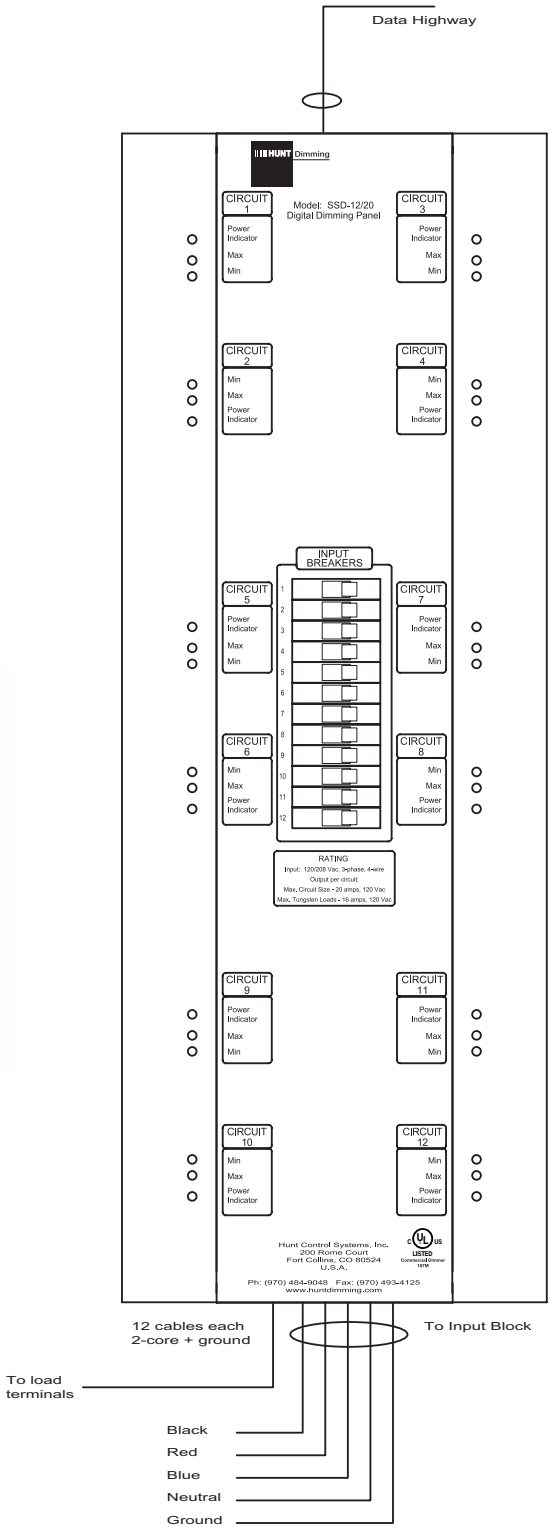


Figure 3. Output connection wiring diagram



Pushbutton digital control stations offer flexibility in project design.

Custom LCD Touchscreens are available in many foreign languages, with international symbols or utilizing your AutoCAD® layout drawings.



Electrical connections and wiring diagram

NOTES:

- The *Simplicity*™ Series 12 circuit dimming panel is designed to accept three-phase, 4-wire power.
- Control cables should be Belden 9729 or equivalent. Cable is to be supplied by others. Maximum cable length: 3,250 feet.
- All 12 dimming outputs are electrically identical but it is important to note which circuit of lighting (1-12) goes to which output terminal. This information is needed during initial set-up of the system.

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