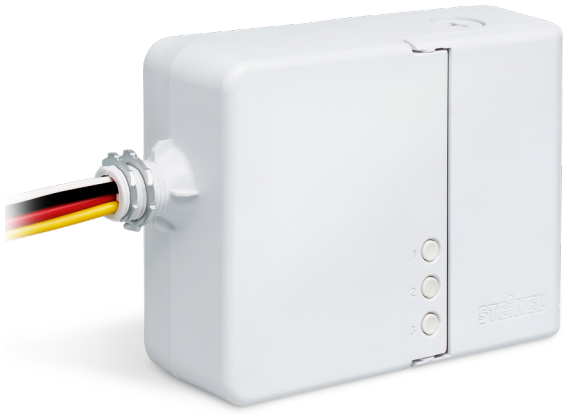
DCS CONNECT/DCS Controller

Digital Control Solution



The Digital Control Solution controllers integrate load control with occupancy sensors, photo sensors, switches, and other devices to provide simple code compliant solutions for lighting, plug load and HVAC integration through BACnet via the DCS CONNECT. It is a powerful, flexible, scalable, easy to install digital control solution designed to provide maximum energy savings. It uses a two wire data line and Bluetooth Mesh to create a local network and the make the system expandable.

The Digital Control Solution (DCS) group of sensors are available in multiple technologies for the control of heating, ventilation and air conditioning as well as lighting. Time saving wireless commissioning is accomplished via Bluetooth connection from a Smart Phone or Tablet to a DCS Controller, which communicates to the sensory by the 2 wire bus.

Applications

The typical application is for offices, conference rooms, classrooms and other indoor public building spaces.

Key Features:

- Digital bus for sensors, switches, photo cells
- Out-of-the-box functionality
- Wireless programming
- Predefined and custom use case generation
- Preset or custom scenes
- 3 independent 0-10V dimming zones
- Receptacle control
- Multi-zone daylighting
- Minimum and maximum dimming levels
- Hold off / force off
- Demand response

Project Name:
Location:

69196 80208

DCS CONNECT/DCS Controller Specifications

Item No.	69196 DCS CONNECT 80208 DCS Controller
Supply Voltage	120 / 277 VAC, 60 Hz
DCS Dimensions	6.69 x 4.94 x 2.16 in 170 x 120 x 54.8 mm
Threaded Nipple Dimensions	1.07 x .83 in 27.2 x 21 mm
Max Device on Bus	100
Data Line Output	22.5 VAC / 180 mA (class 2)
Relay Power Input	Single Phase 120 / 277 VAC, 60 Hz (per relay)
Relay Load Rating	3 x 120/277 Vac, 20A Tungsten, ELV 3 x 120/277 Vac, 20A Standard Ballast, MLV 3 x 120/277 Vac, 16A Electronic Ballast, LED, CFL 3 x 120 Vac, 20 FLA, 120 LRA, 1 Hp 3 x 120 Vac, 20A Receptacle-Plug Load
Dimming Output	3 x 0-10 V, 100 mA, max. 50 compatible drivers
Demand Response Input	1 x 12-22.5V, 1mA
Time Clock Input	1 x 12-22.5V, 1mA
RTC Battery Lifetime	10 years
BMS DCS CONNECT	BACnet IP (RJ45 connector)
Security	AES 128 (Advanced Encryption Standard)
IP Classification	IP20
Temperature Rating	Rated for Indoor Use Only, -10 - 50° C / 14 - 122° F
Country of Origin	Made in Switzerland
Warranty	5 years
Certifications	C-UL-US Listed, RoHS compliant, FCC/IC, UL 2043 Plenum Rated, CA Energy Code compliant

Key Features:

- 3 x 20A Relays (expandable)
- Current monitoring per relay
- Daylight harvesting
- Partial on & off
- External time clock input
- Internal time clock
- Astronomic time functions
- Light Scenes
- Wireless BLE mesh interconnectivity

DCS CONNECT:

- BMS integration via BACnet

Wireless
BLE Wireless Mesh

Astronomic
Dust to Dawn

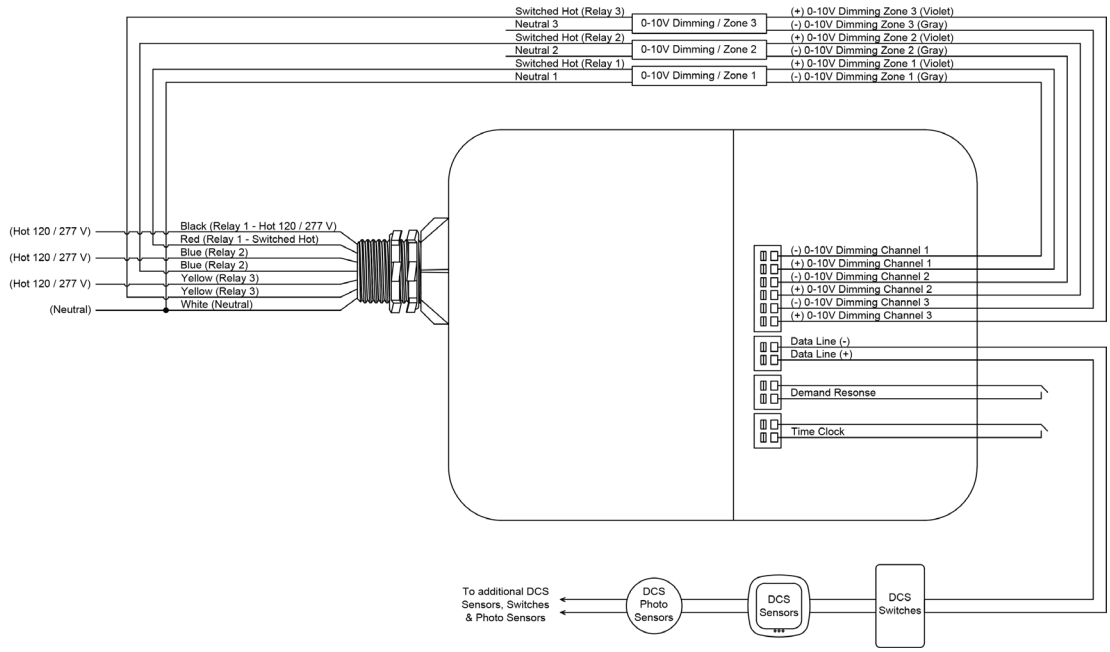
BACnet
TCP / IP

Integrated Time Clock

DCS CONNECT/DCS Controller

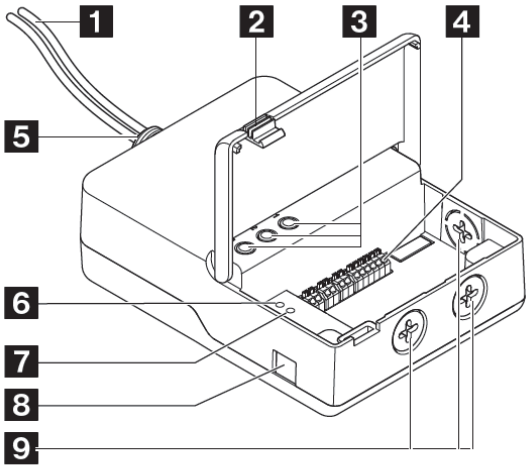
Digital Control Solution

Wiring



- Before installation, make sure that power has been switched off at the breaker and check that the circuit is dead with a voltage meter.
- After installation, verify wiring is correct to avoid damage to the controller, lighting, and control devices.

Overview

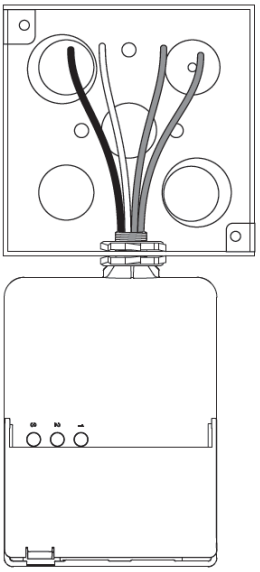


1. Line voltage wires
2. Cover release button
3. Test buttons
4. Low voltage terminals
5. 1/2 inch threaded chase nipple with two lock nuts
6. LED status indicator
7. RESET Button
8. BACnet port
9. 3 x 1/2" knockout

Mounting

Mounting guidelines

- The DCS Digital Control Solution mount to a junction box with 1/2 inch knockouts.

Mounting instructions

- Remove the top lock nut from the 1/2" chase nipple.
- Place line voltage wires and 1/2" chase nipple through 1/2" knockout.
- Reinstall the lock nut and tighten.