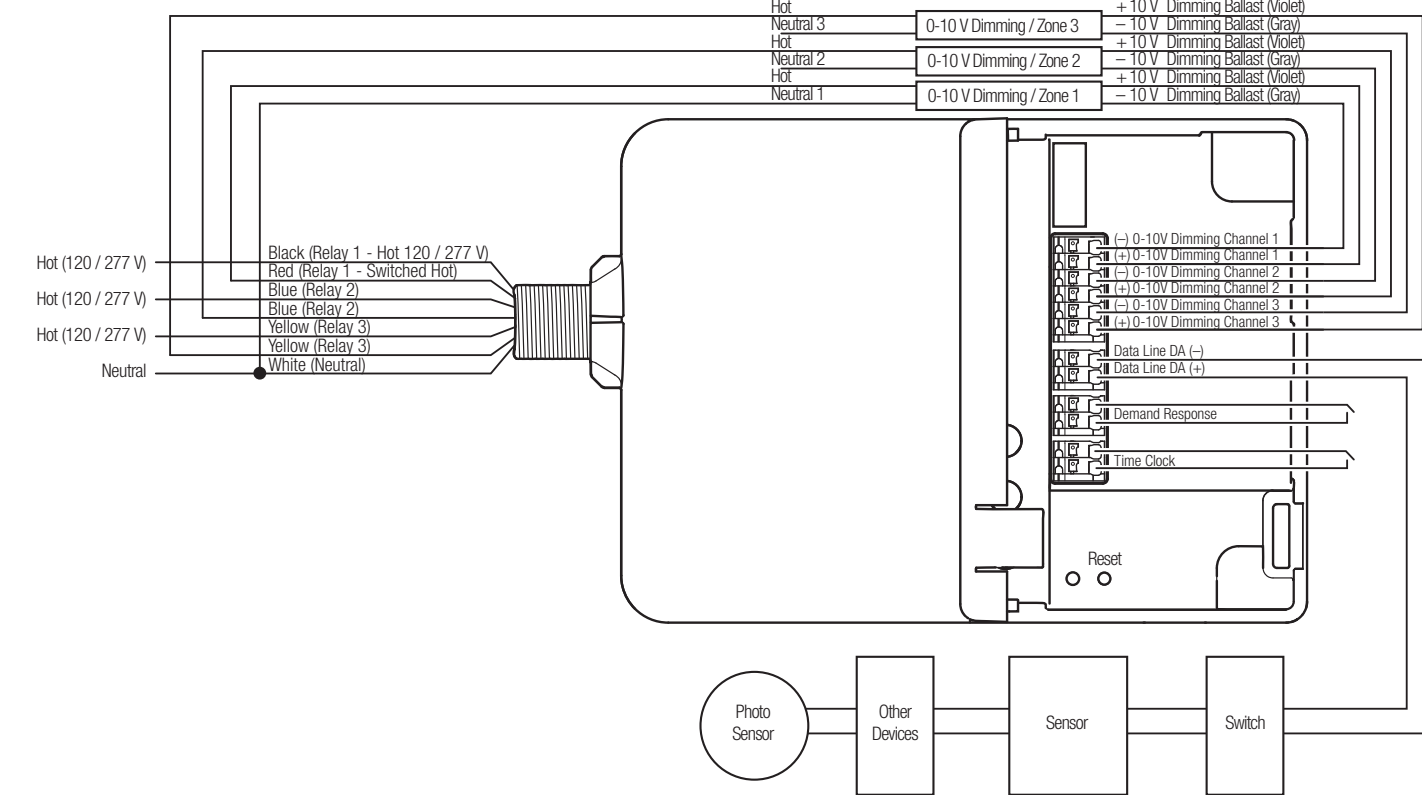




Wiring

- 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.



8

Cet appareil et ses antennes ne doivent pas être placés ou fonctionner en conjonction avec une autre antenne ou un autre émetteur.

NOTE IMPORTANTE :
Déclaration de la FCC sur l'exposition aux radiations :
Cet équipement est conforme aux limites d'exposition aux radiations de la FCC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre la source de rayonnement et votre corps.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique du Canada, applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- L'appareil ne doit pas produire de brouillage;
- L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

REMARQUE IMPORTANTE :
Déclaration d'IC sur l'exposition aux rayonnements :
Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre la source de rayonnement et votre corps.

Le module émetteur ne doit pas être installé au même endroit qu'un autre émetteur ou une autre antenne.

CAN ICES-3 (A)/NMB-3(A)

US

Installer

This high-quality product has been manufactured, tested and packaged with the assurance of your complete satisfaction. Please read all of the instructions before installation. This will help you to be familiarized with all the features and options available to you with these devices. This will also assist you to minimize installation time and provide maximum energy savings and trouble-free operation.

Safety Warnings

**WARNING**

- Disconnect the power supply before attempting any wiring to the device!
- Confirm that power has been switched OFF at the breaker and power is OFF with a voltage tester.
- Installing this device requires connections to an AC power supply.
- The wiring of this device must be carried out professionally and in accordance with all local and National Electric Codes and electrical operating conditions.
- Class 2 outputs are not suitable for Class 1 installations.
- CAUTION** Risk of Electric Shock – More than one disconnect switch may be required to de-energize the device before servicing.

FCC Interference Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

IMPORTANT NOTE:
FCC Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

IMPORTANT NOTE:
IC Radiation Exposure Statement:
This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

The transmitter module may not be co-located with any other transmitter or antenna.

CAN ICES-3 (A)/NMB-3(A)

Operation

List of all key features

- Plug & Play Operation**
Provides a code compliant solution for most applications without the need of programming. The system is designed to immediate work in a basic configuration (default scene) once power has been turned on for the first time. The default scene consist of the following settings:
 - Steinel Sensors connected to the data line are automatically recognized by the system. Sensor settings:
 - Time Delay: 20 min
 - Light Level: Full brightness
 - Sensitivity: Maximum (available only for US and HF sensors)
 - Partial ON in 50 % all loads
 - Photo sensor
 - Open Loop Mode
 - Assigned to relay 1. Automatic daylighting begins after 1 minute and assigns between 30 – 50 fc at desk level.
 - Hold OFF active
 - Steinel switches are automatically assigned according to their button description.
 - Demand Response
 - Light level dimmed at maximum of 85 % when demand response signal is active.
- 3 x 20 A Relays and expandable**
The DCS comes with the ability to control 3 x independent circuits (120 V or 277 V) that can be used for lighting or plug loads. The system is expandable by adding additional gateways to the data line.
- Current Monitoring Per Relay**
Current monitoring is available on each relay in the DCS.
- 3 x 0-10 V Dimming Zones**
The system offers 3 x 0-10 V dimming channels.
- Data Line**
The data line is a two wire polarity insensitive bus that networks all sensors, switches, photo sensors and other devices. The data line is supplied with 250 mA and can address a maximum of 100 devices.

10

Spécifications

Tension	120 / 277 Vac, 50/60 Hz
Dimensions du DCS	6,69 x 4,94 x 2,16 po 170,0 x 125,0 x 54,8 mm
Dimensions de l'embout fileté	1,07 x 0,83 po 27,2 x 21,0 mm
Alimentation électrique	monophasée 120 / 277 Vac , 50/60 Hz 
Sortie de la ligne de données	12-22,5 Vdc / 250 mA SELV* (classe 2) *Safety Extra Low Voltage (SELV), Installation de classe 2 uniquement
Type de charge contrôlée par chaque circuit	3 x 120/277 Vac, 20 A tungstène, électronique basse tension 3 x 120/277 Vac, 20 A ballast standard, magnétique basse tension 3 x 120/277 Vac, 16 A ballast électronique, LED, lampe fluorescente compacte 3 x 120 Vac, 20 FLA, 120 LRA, 1 Hp 3 x 120 Vac, 20 A, fiche de charge - logement
Sortie de variation de l'intensité lumineuse	3 x 0-10 V, 100 mA, au maximum 50 pilotes compatibles
Entrée réponse à la demande	1 x 12-24 V, 1 mA
Entrée minuterie	1 x 12-24 V, 1 mA
Durée de vie de la batterie en temps réel (RTC)	10 ans
Gestion des bâtiments	BACnet IP (connecteur RJ45)
Calibré pour usage à l'intérieur uniquement	14-104 °F / -10-40 °C, type 1 / IP20
Degré de pollution	2
Tension d'impulsion	4000 V
Standard	UL 60730-1 Classe plenum UL 2043
FCC ID	W8J-7212
IC ID	8529A-7212
5 ans de garantie	
Fabriqué en Suisse	
www.steinel.net	

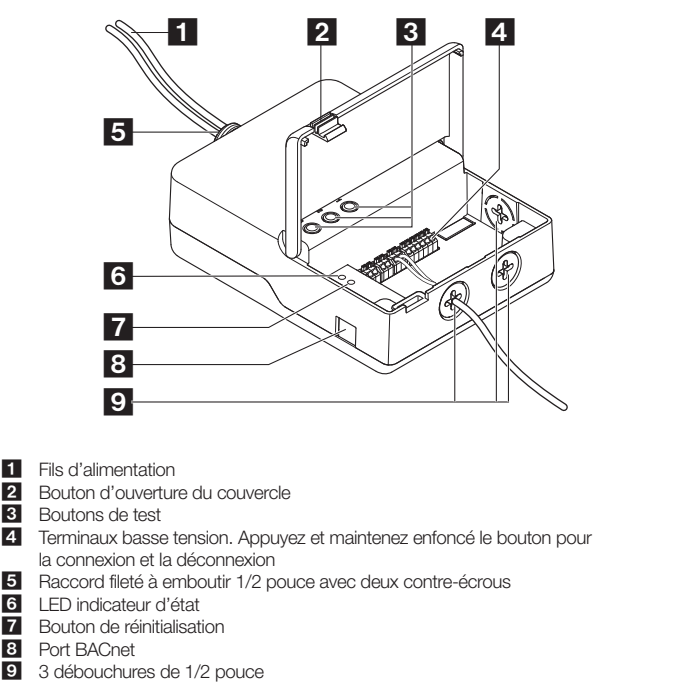
Product Overview

Purpose of CONTROL
The DCS Digital Control Solution integrates 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. 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 or Bluetooth Mesh to create a local network and to make the system expandable. It is a Type 1,C automatic operating control. For indoor use only.

Content
1 x DCS Digital Control Solution
1 x Users Manual
1 x Label for the Relay description
3 x Peel Off QR Codes with the device identification MAC Adress
2 x Lock nuts

- Daylight Harvesting**
When used with the Steinel PS DCS photo sensor the system is capable of both open loop and closed loop zone control.
- Partial On & Off**
Both Partial ON and Partial OFF functions can be used in combination with the occupancy sensor and time clock functions.
- Receptacle Control**
All relays are capable of 20 A receptacle control. It can either be occupancy or time based control.
- Use Cases**
In order to make commissioning easier, different settings and parameters can be bundled and saved into use cases. This offers the possibility to commission rooms with the same requirements by simply selecting the desired use case. A stored use case can be emailed and shared with others.
- Demand Response Input**
The DCS has an input terminal that receives a dry contact closure designed for demand response. When multiple room controllers are connected to each other over Bluetooth, the demand response signal can be forwarded through the mesh network.
- External Time Clock Input**
For integration with an existing external time clock via a dry contact closure.
- Internal Time Clock**
The internal time clock features:
 - time of day,
 - day of week,
 - calendar settings,
 - holiday scheduling,
 - astronomic time functions (dusk & dawn) via GPS locator in the tablet or smart phone used during programming.
- Min. & Max. dimming levels**
Minimum and maximum dimming levels can be assigned to each switching zone.
- Group assignment**
Individual relays in multiple DCS Controllers can be associated to groups for mass command assignment over BLE Mesh.

Aperçu du produit



Specifications

Voltage	120 / 277 Vac, 50/60 Hz
DCS Dimensions	6.69 x 4.94 x 2.16 in 170.0 x 125.0 x 54.8 mm
Threaded Nipple Dimensions	1.07 x .83 in 27.2 x 21.0 mm
Power input	Single Phase 120 / 277 Vac, 50/60 Hz 
Data Line Output	12-22.5 Vdc / 250 mA SELV* (Class 2) *Safety Extra Low Voltage (SELV), Class 2 installation only.
Type of load controlled by each circuit	3 x 120/277 Vac, 20 A Tungsten, ELV 3 x 120/277 Vac, 20 A Standard Ballast, MLV 3 x 120/277 Vac, 16 A Electronic Ballast, LED, CFL 3 x 120 Vac, 20 FLA, 120 LRA, 1 Hp 3 x 120 Vac, 20 A Receptacle-Load Plug
Dimming Output	3 x 0-10 V,100 mA, max. 50 compatible drivers
Demand Response Input	1 x 12-24 V, 1 mA
Time Clock Input	1 x 12-24 V, 1 mA
RTC Battery Lifetime	10 years
Building Control	BACnet IP (RJ45 connector)
Rated for indoor use only	14-104 °F / -10-40 °C, Type 1 / IP20
Pollution Degree	2
Impulse Voltage	4000 V
Standard	UL 60730-1 UL 2043 Plenum Rated
FCC ID	W8J-7212
IC ID	8529A-7212
5 year warranty	
Made in Switzerland	
www.steinel.net	

- Light Scenes**
Different light scenes can be programmed and started by the following options:
 - manual switch
 - time clock (internal or external)
 - demand response input
 - occupancy sensor
 - photo sensor
 - astronomic time function (dusk & dawn)
- BLE**
The controllers are capable of the following BLE functions:
 - wireless programming via app on a tablet or smart phone
 - interconnectivity over Bluetooth Mesh between devices for mass updates
 - wireless system expansion of controllers over BLE Mesh
- BACnet**
Every device comes standard with a RJ45 BACnet TCP/IP port for integration into the Building Management Systems.
- LED**
 - LED lights on at power up
 - LED blinks continuously fast mode during data line commission
 - LED blinks slowly with 2 sec delay in normal operation mode
- Reset**
Reset button on the housing
Within 10 min after power ON:
 - Press and hold the reset button for 5 s to reset login and password. Settings performed by the installer will not be lost.
 - Press and hold the reset button for 15 s to reset login, password and reestablish factory settings.After the 10 min window elapses:
the power must be turned OFF and back ON to perform a full reset again.
- Reset button in the App:**
Push the reset button in the APP to reset login and password. Settings will be lost and factory settings will be initiated.
- 3 Test buttons**
Allows the installer to turn ON / OFF each relay for testing of the line voltage wiring.

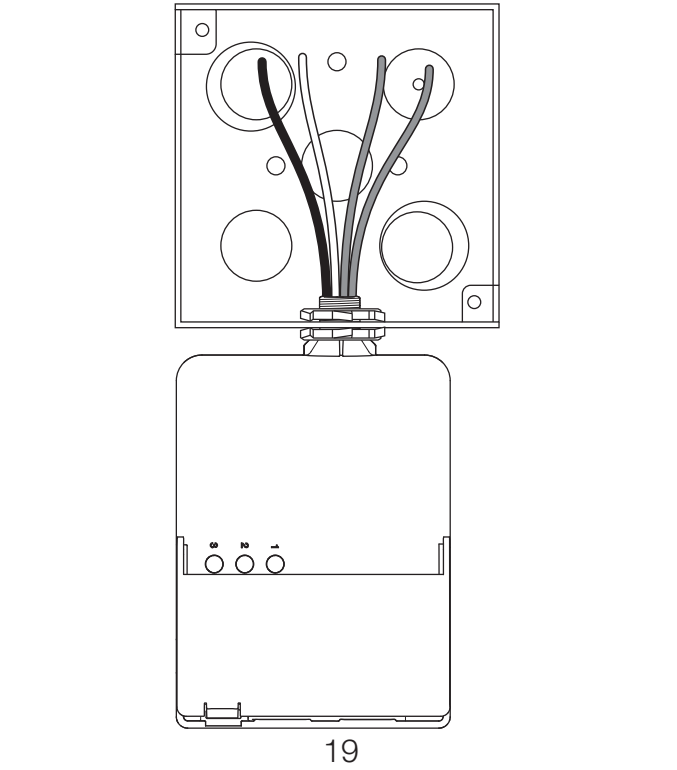
Montage

Méthode de montage de CONTROL

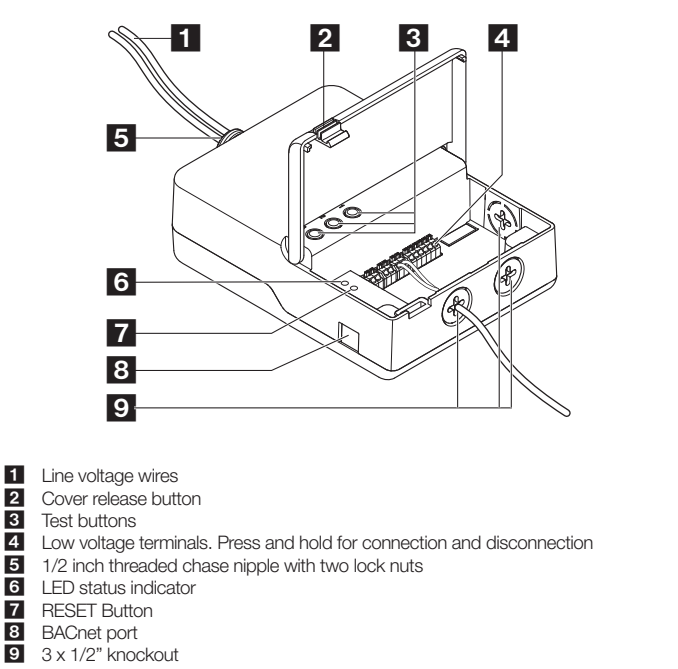
- Le DCS (la solution de commande numérique) se monte sur un boîtier de jonction avec une débouchure de 1/2 pouce (1,27 cm).

Instructions de montage

- Retirez le contre-écrou supérieur du raccord à emboutir 1/2 po (1,27 cm).
- Faites passer les fils d'alimentation et le raccord à emboutir 1/2 po (1,27 cm) à travers la débouchure 1/2 po (1,27 cm).
- Réinstallez le contre-écrou puis serrez.



Product Overview



Warranty

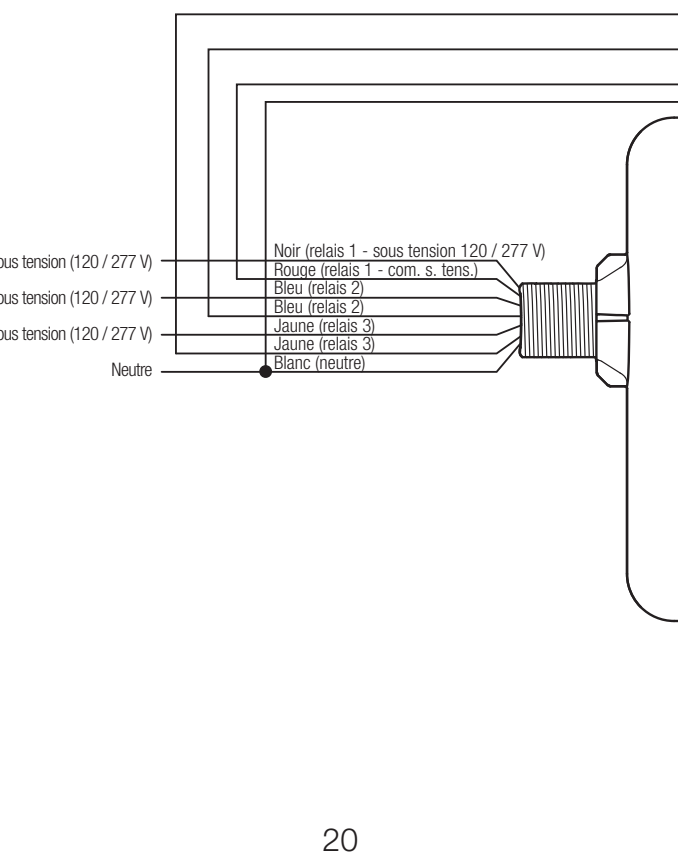
STEINEL America warrants its products against defects in material or workmanship for a period of five years. STEINEL will replace or repair the item provided that it has not been altered or subjected to abuse, accident, improper installation or improper use. There are no obligations or liabilities on the part of STEINEL for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.



12

Câblage

- Avant l'installation, assurez-vous que l'alimentation électrique a été coupée au niveau du disjoncteur et que le courant ne passe plus dans le circuit, au moyen d'un testeur de tension.
- Après l'installation, vérifiez que le câblage est correct afin d'éviter tout dommage au niveau du contrôleur, de l'éclairage et des dispositifs de commande.



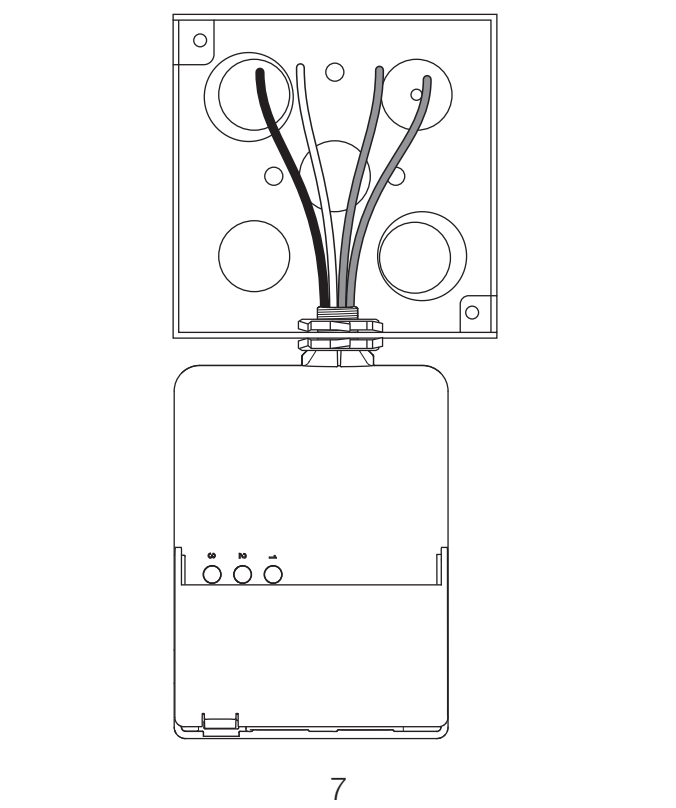
Mounting

Method of mounting CONTROL

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

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.



FR

À l'attention de l'électricien

Ce produit de qualité supérieure a été fabriqué, testé et emballé afin de vous donner entière satisfaction. Veuillez lire attentivement et entièrement ces instructions avant de procéder à l'installation de l'appareil. Elles vous aideront à vous familiariser avec toutes les caractéristiques et options offertes par ces appareils. Elles contribueront à minimiser la durée d'installation, à réaliser un maximum d'économies d'énergie et à garantir une utilisation sans problème.

Consignes de sécurité

ATTENTION

- Débranchez l'appareil de l'alimentation électrique avant tout câblage vers l'appareil !
- Assurez-vous que l'alimentation électrique a été COUPÉE au niveau du coupe-circuit et vérifiez que l'alimentation électrique est COUPÉE avec un testeur de tension.
- L'installation de cet appareil implique la connexion à une alimentation électrique CA.
- Le câblage de cet appareil doit être effectué par des professionnels en respectant toutes les réglementations électriques nationales et locales ainsi que les conditions d'utilisation électriques.
- Les sorties de classe 2 ne conviennent pas aux installations de classe 1.
- ATTENTION** Risque de choc électrique - Plus d'un interrupteur peut être nécessaire pour mettre l'appareil hors tension avant l'entretien.

Déclaration de la FCC sur les interférences

Cet équipement a été testé et jugé conforme aux limites applicables et aux appareils numériques de classe A, conformément à la partie 15 des règles de la FCC. Ces limites sont conçues pour fournir une protection raisonnable contre les interférences nuisibles lorsque l'équipement est utilisé dans un environnement commercial. Cet équipement génère, utilise et peut émettre de l'énergie de radiofréquence et, s'il n'est pas installé et utilisé conformément au manuel d'instructions, il peut causer des interférences nuisibles aux communications radio. L'utilisation de cet équipement dans une zone résidentielle est susceptible de provoquer des interférences nuisibles, auquel cas l'utilisateur devra corriger ces interférences à ses propres frais.

Attention FCC : Tout changement ou modification non expressément approuvé par la partie responsable de la conformité pourrait annuler l'autorisation pour l'utilisateur à pouvoir utiliser cet équipement.

Cet appareil est conforme à la partie 15 des règles de la FCC. Son utilisation est soumise aux deux conditions suivantes : (1) Cet appareil ne doit pas causer d'interférences nuisibles, et (2) cet appareil doit accepter toute interférence reçue, y compris les interférences qui peuvent causer un fonctionnement non souhaité.

