



## CENTRIOS CER INSTRUCTIONS

### Installing your Centrios™ Reader

Thank you for purchasing a Centrios Reader, part of the Centrios access management family of products. Centrios is designed to help businesses like yours simplify how they manage who can access what and when.

If you have any questions, don't hesitate to contact us at [support@centrios.com](mailto:support@centrios.com)

Let's do this.

Parameter		Unit
Power supply	12 – 24 (-10% to +15%)	VDC
Operating temperature	-40 to +50 (UL294 Outdoor) ★	C
Storage temperature	-40 to +85	C
Relative Humidity	90 +0/-5 %RH at 86 F +/- 5 F	
IP Class	IP65 ★★	
Relay, Quantity 2	12 – 24	VDC
Relay switching capacity, Max	2	A
1X DPS, Digital input	Close / open, Externally accessible (N.O. / N.C. configurable via mobile app.)	
1X REX, Digital input	Close / open, Externally accessible (N.O. / N.C. configurable via mobile app.)	
1X Tamper, Digital input	SPST, N.O., Internal	
Keypad, capacitive touch keypad	Digits 0-9, Bell button	
Network	2.4 GHz, ZigBee 3.0	
BLE	Bluetooth 5	

★ Requires heater operation

★★ In conjunction with rated enclosure accessory

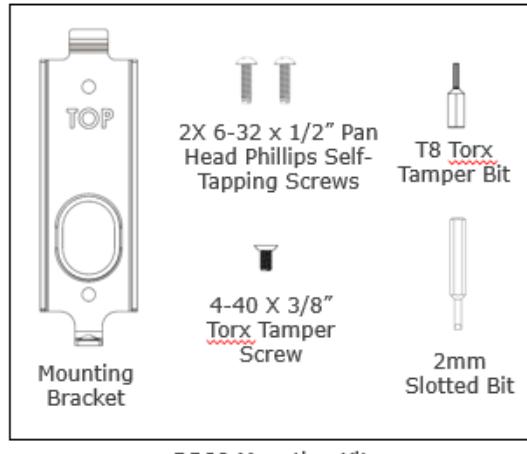


## What's in the box

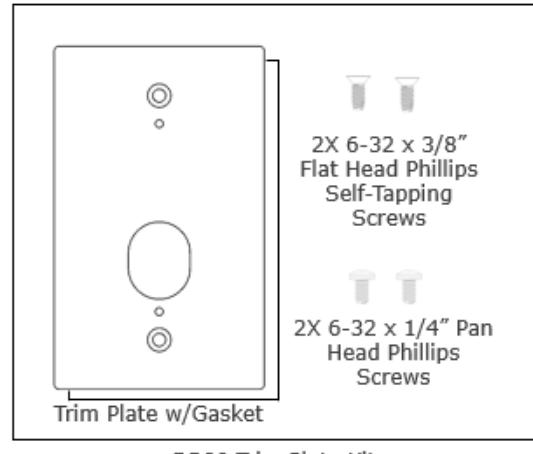
Take a minute to make sure you've got everything shown on this page.



Reader



DR80 Mounting Kit



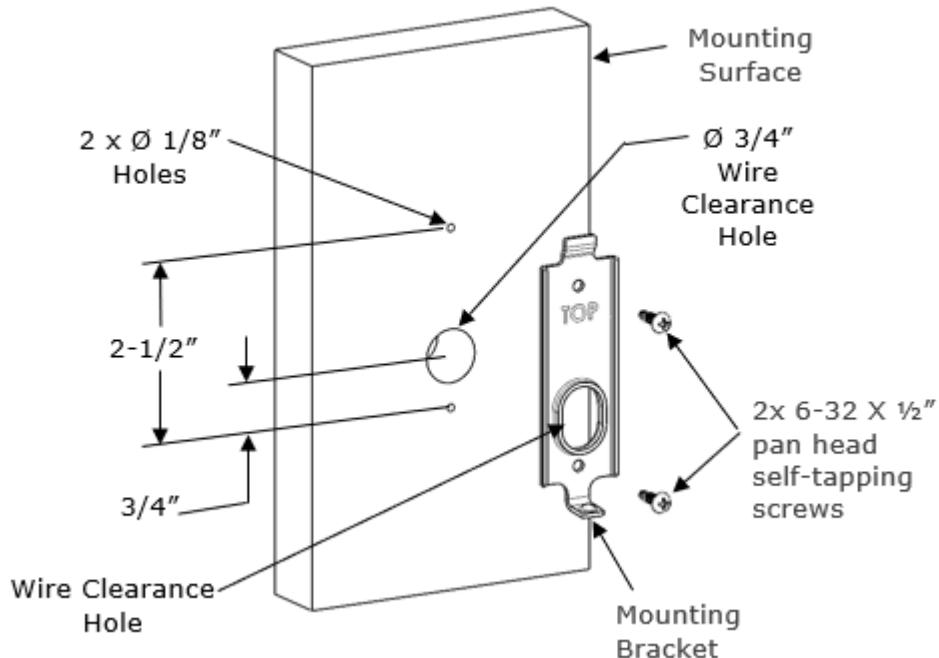
DR80 Trim Plate Kit

## What else will you need?

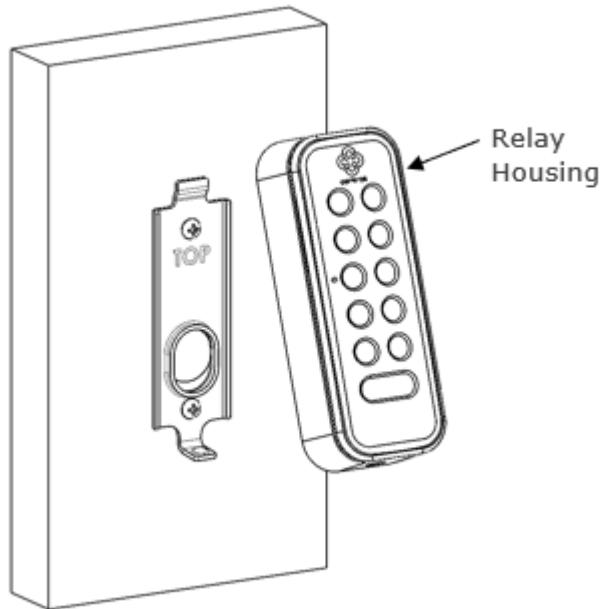
In addition to your reader, you're going to need a .....

### Mounting the mullion.

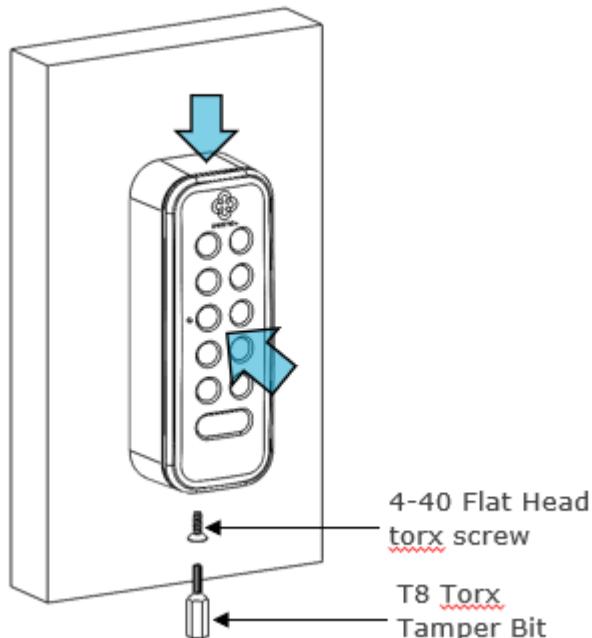
- **DRILL  $\frac{3}{4}$ "** hole in location shown for wires to pass through.
- **USE** Mounting bracket as template to drill **2X  $1/8$ "** holes as shown for **2X 6-32** self-tapping screws. Ensure Mounting Bracket is level and aligned to the  $\frac{3}{4}$ " hole before drilling  $1/8$ " holes.
- **ROUTE** wires through slot in Mounting Bracket.



- **INSTALL** mounting bracket using **2X 6-32 X  $\frac{1}{2}$ "** self-tapping screws.
- **WIRE** input/output wires into Pluggable Terminal Blocks (2X 6-pin, 1X 4-pin) See Relay Secure Board for I/O's.
- **DO NOT proceed with Relay Housing mounting until wiring is complete!**
- **INSTALL** Pluggable Terminal Blocks onto Relay Secure Board on back of Reader.
- **HOOK** Relay Housing onto Mounting Bracket and slide Relay Housing downward until Relay Housing is fully seated onto bracket and against mounting surface. Downward & Angular pressure into the Mounting Surface will be needed in order to compress gasket and fully seat Relay Housing to Mounting Bracket.

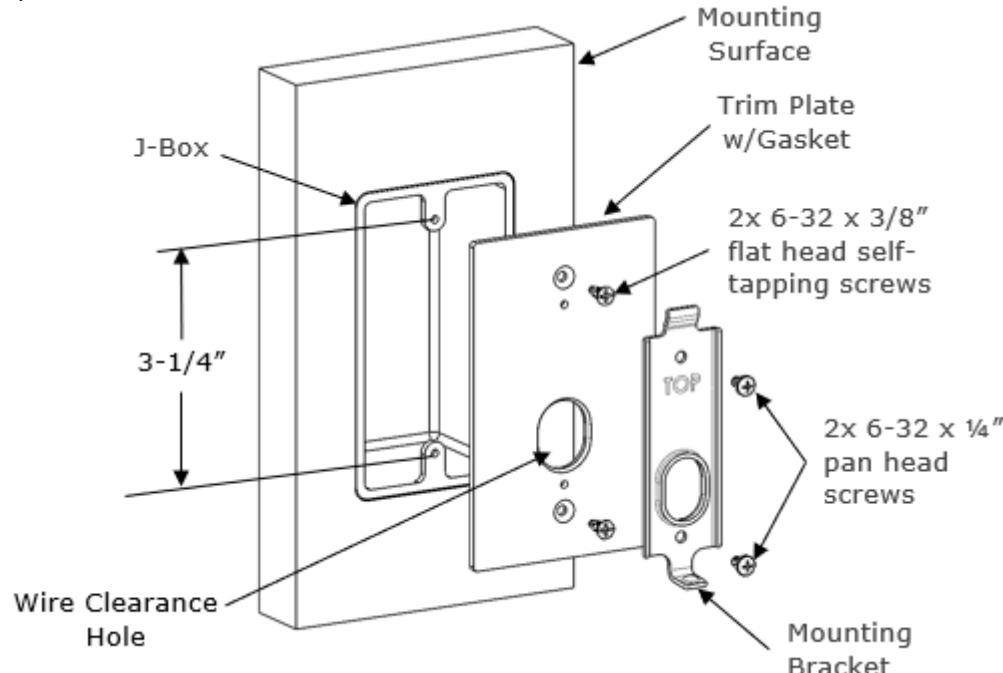


- **INSTALL** provided 4-40 x 3/8" Flat Head Torx Screw to hole in base of Relay Housing to secure to Mounting Bracket. **DO NOT over tighten screw.**

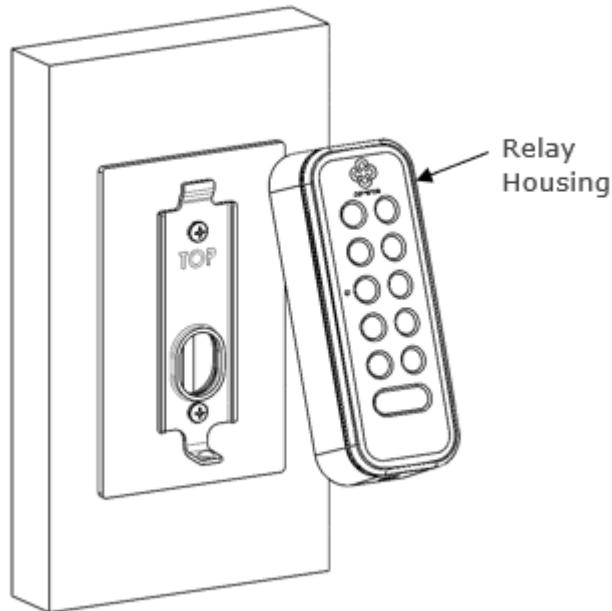


#### Mounting the J-Box

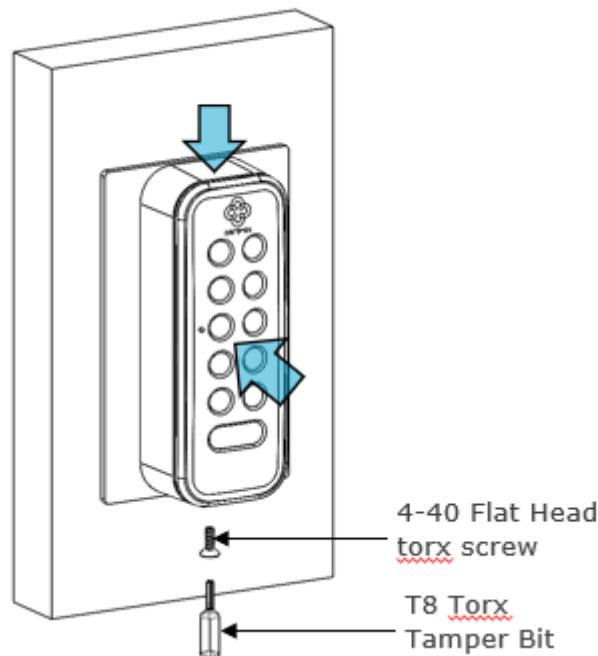
- **ROUTE** wires through slot in Trim Plate.
- **INSTALL** Trim Plate by securing to J-Box with 2X 6-32 x 3/8" self-tapping screws.
- **ROUTE** wires through slot in Mounting Bracket.
- **INSTALL** mounting bracket by securing to Trim Plate using 2X 6-32 x 1/4" self-tapping screws.
- **WIRE** input/output wires into Pluggable Terminal Blocks (2X 6-pin, 1X 4-pin) See Relay Secure Board for I/O's.



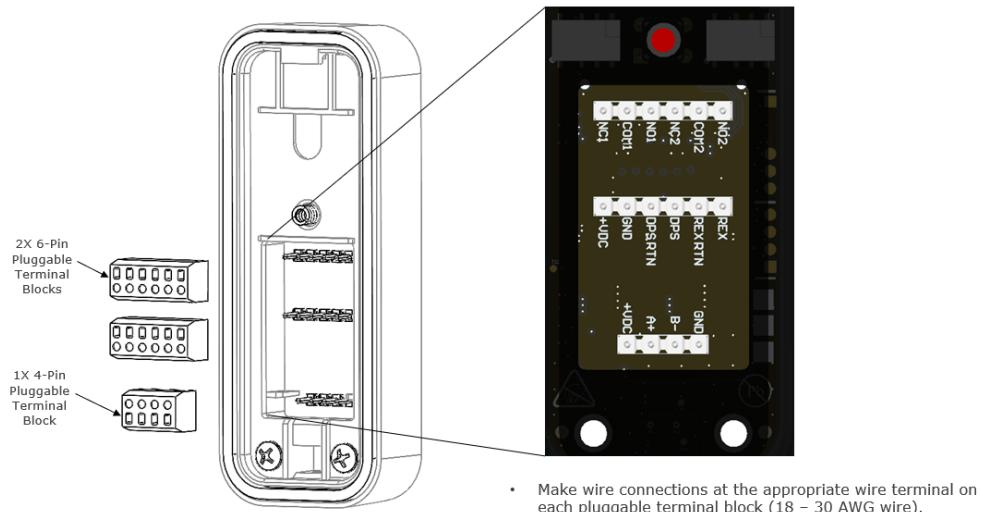
- **DO NOT proceed with Relay Housing mounting until wiring is complete!**
- **INSTALL** Pluggable Terminal Blocks onto Relay Secure Board on back of Reader.
- **HOOK** Relay Housing onto Mounting Bracket and slide Relay Housing downward until Relay Housing is fully seated onto bracket and against mounting surface. Downward & Angular pressure into the Mounting Surface will be needed in order to compress gasket and fully seat Relay Housing to Mounting Bracket.



- **INSTALL** provided 4-40 x 3/8" Flat Head Torx Screw to hole in base of Relay Housing to secure to Mounting Bracket. **DO NOT over tighten screw.**
- **VERIFY** proper installation/wiring and ensure that all connected devices are operating as intended. **Note:** All steps must be complete for device to exit tamper state and for device to function properly.



## Wiring Connections



Name	Description	Voltage Level
NO2	Relay 2, Normally-Open	30 VDC, 2 A, 60 W, N.O. only
COM2	Relay 2, Common	110 VDC, 0.3 A, 33 W
NC2	Relay 2, Normally-Closed	220 VDC, 0.27 A, 60 W
NO1	Relay 1, Normally-Open	
COM1	Relay 1, Common	
NC1	Relay 1, Normally-Closed	

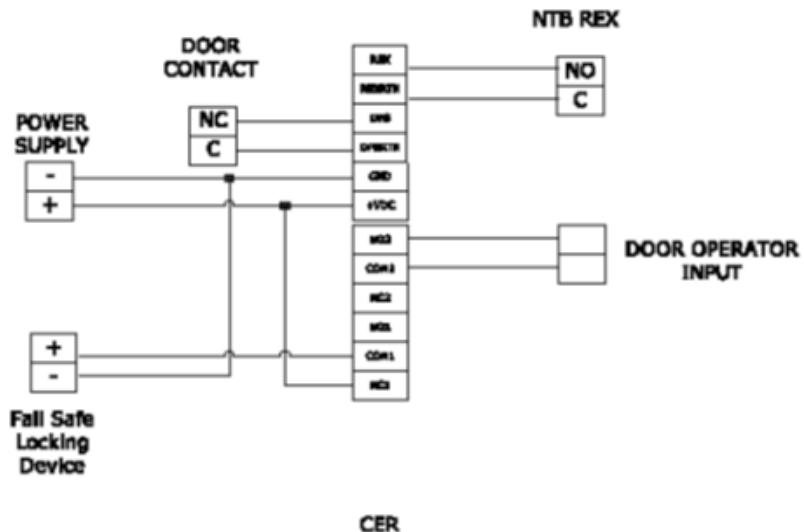
Name	Description	Voltage Level
REX	Request to exit contact	Contact closure, 3.3V max
REX RTN	Request to exit contact return	Contact closure, 3.3V max
DPS	Door position switch contact	Contact closure, 3.3V max
DPS RTN	Door position switch contact return	Contact closure, 3.3V max
GND	Should be connected to power supply GND.	Power ground / return
+VDC	Power supply input	12-24 VDC, 3 W.

Name	Description	Voltage Level
GND	Alternate ground. Should be connected to power supply GND.	Power ground / return
B-	RS485 Data A	±15 V
A+	RS485 Data B	±15 V
+VDC	Alternate power supply input.	12-24 VDC, 3 W.

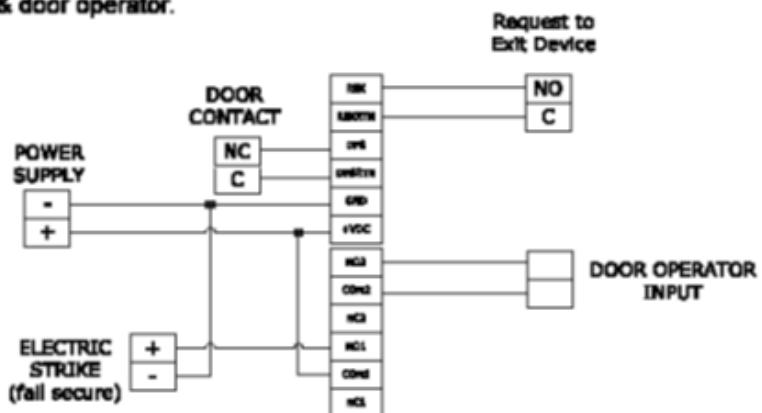
NOTE: The installation must comply with national wiring regulations

## Reader installation scenarios

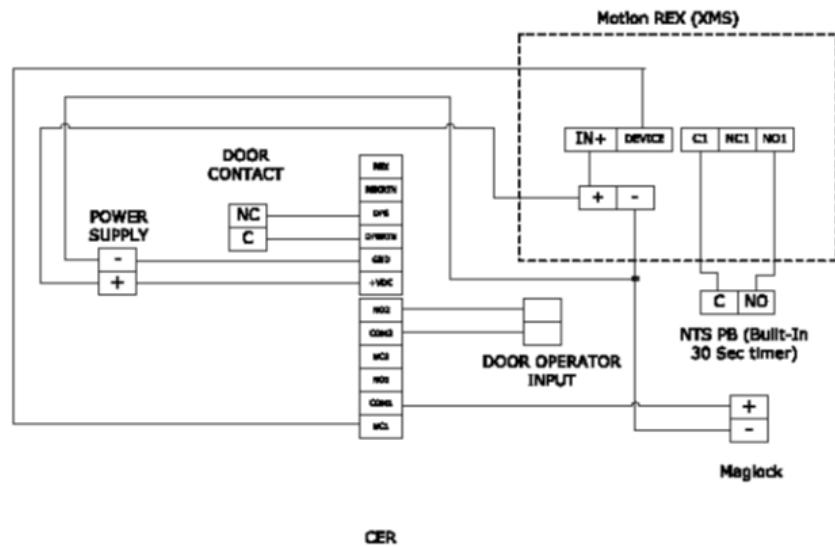
Typical single door system  
with Fail-Safe electric lock  
& door operator.



Typical single door system  
with Fail-Secure electric  
lock & door operator.



CER



## We're all done

That's it, you're good to go.

Don't forget, we're here to help if you need it. Simply call us at <NUMBER>, email us at <EMAIL>, or check out our support pages at <WEB>.

Thanks again for choosing Centrios for your business.



## Warning

### FCC: Contains FCC ID: VC3CRFM1

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.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 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

### NOTICE:

This device complies with Part 15 of the FCC Rules and contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS standard(s).

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.

Changes or modifications made to this equipment not expressly approved by Hanchett Entry Systems may void the FCC authorization to operate this equipment.

### Radiofrequency radiation exposure Information:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of **20 cm** between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

### Industry Canada: Contains IC ID: 7160ACRFM1

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante

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

L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

### General Regulatory Compliance:

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license exempt RSS(s). 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.

Cet appareil contient des émetteurs/récepteurs exemptés de licence conformes aux RSS d'Innovation, Sciences et Développement économique Canada. Cet appareil est conforme à la section 15 de la réglementation de la FCC.

L'opération est sujette aux deux conditions suivantes: (1) ce dispositif peut ne pas causer l'interférence nocive, et (2) ce dispositif doit accepter n'importe quelle interférence reçue, y compris l'interférence qui peut causer l'opération peu désirée.

This equipment complies with FCC and IC radiation exposure limits set forth for general population (uncontrolled environment). This device must not be co-located or operating in conjunction with any other antenna or transmitter.



Cet équipement est conforme aux limites d'exposition aux radiations de la FCC et IC définies pour la population générale (environnement non contrôlé). Cet appareil ne doit pas être co-localisé ou fonctionner en conjonction avec une autre antenne ou un autre émetteur.

This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to: [www.P65warnings.ca.gov](http://www.P65warnings.ca.gov)

Ce produit peut vous exposer au plomb qui, dans l'état de la Californie, est reconnu pour causer le cancer, des anomalies congénitales ou d'autres problèmes de reproduction.  
Pour plus d'informations, visitez: [www.P65warnings.ca.gov](http://www.P65warnings.ca.gov)

**Note:**

All components and/or modules provided in the CER are only authorized for use within CER. Removal, disassembly, etc. could void and/or invalidate legal use within the United States.