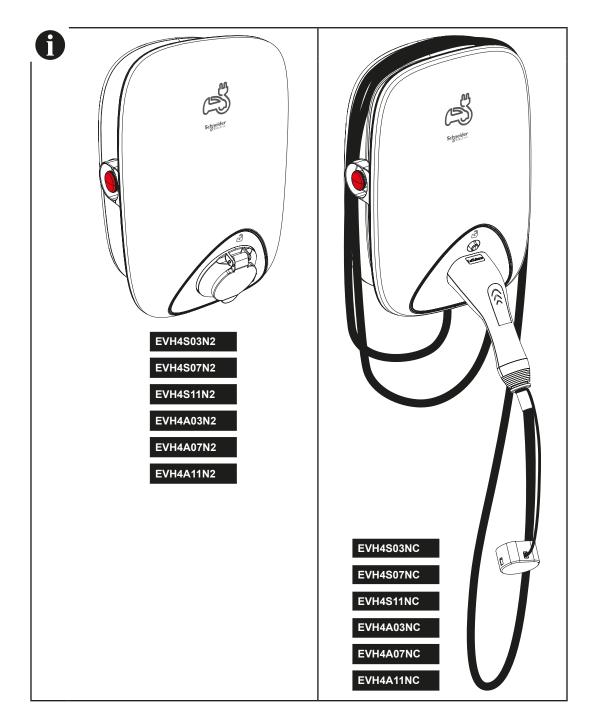
User manual





Customer Care Center



GEX4292700-00_EN 11/2022



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Safety

Important Information

Read these instructions carefully, and look at the equipment to become familiar with the device before trying to install, operate, or maintain it. The following special messages may appear throughout this documentation or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of this symbol to a "Danger" or «Warning» safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

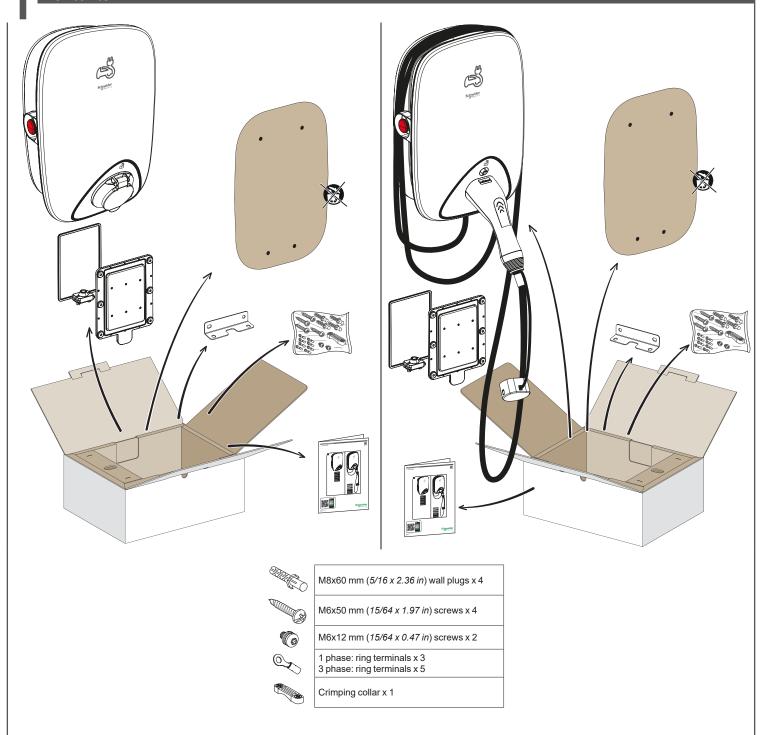
NOTICE is used to address practices not related to physical injury.

PLEASE NOTE

- The installation, maintenance and eventual replacement of this device must only be carried out by a qualified electrician.
- This device must not be repaired.
- All applicable local, regional and national regulations must be complied with during the installation, use, maintenance and replacement of this device.
- This device should not be installed if, when unpacking it, you observe that it is damaged.
- Schneider Electric cannot be held responsible in the event of non-compliance with the instructions in this document and in the documents to which it refers.
- The service instruction must be observed throughout the life time of this device.

Symbol	Content
	 Electrical hazard The equipment must be installed, commissioned, serviced, and maintained only by qualified personnel. The installation should comply with existing standards and local regulations. See section "Installation" page 12 for details. Electrical hazard / fire hazard The charger, the cable and the connector must be regularly checked by to detect any potential damage (visual inspection). In case the charger is damaged, it must be immediately turned off and replaced. Do not perform any maintenance work on the equipment. Do not open or modify the charger. Do not remove signs such as safety symbols, warnings, nameplates, signs or markings. Do not use any extension cable to connect the charger to the electric vehicle. Do not connect any other type of loads to the charger (power tools, etc.). Only connect electric vehicles or their charging equipment. Do not disconnect the connector so that it is mechanically damaged. Prevent the connector to be in contact with heat source, dirt or water. When using an integrated charger to charge your electric car, please read the vehicle's tips and instructions carefully. Failure to follow safety instructions can result in death, injury, and equipment damage.
\triangle	Never clean the charging point by spraying it with water (Hose for garden watering, high pressure cleaners, etc)

Contents



2.1 Product References

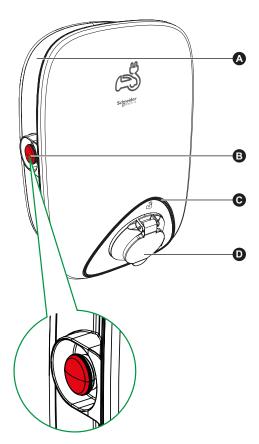
Reference	Short Description	Power supply	Power rating	Electrical protection
EVH4S03N2	EVlink Home 1P T2 3.7 kW 16A - with RDC-DD	T2 socket	3.7 kW 16A	with 6 mA RDC-DD filter
EVH4S07N2	EVlink Home 1P T2 7.4 Kw 32A - with RDC-DD	T2 socket	7.4 kW 32A	with 6 mA RDC-DD filter
EVH4S11N2	EVlink Home 3P T2 11 kW 16A - with RDC-DD	T2 socket	11 kW 16A	with 6 mA RDC-DD filter
EVH4S03NC	EVlink Home 1P attached cable 5 m 3.7 kW 16A - with RDC-DD	Attached cable 5 m / 16.4ft	3.7 kW 16A	with 6 mA RDC-DD filter
EVH4S07NC	EVlink Home 1P attached cable 5 m 7.4 Kw 32A - with RDC-DD	Attached cable 5 m / 16.4ft	7.4 kW 32A	with 6 mA RDC-DD filter
EVH4S11NC	EVlink Home 3P attached cable 5 m 11 kW 16A - with RDC-DD	Attached cable 5 m / 16.4ft	11 kW 16A	with 6 mA RDC-DD filter
EVH4A03N2	EVlink Home Smart 1P T2 3.7 kW 16A - with RDC-DD	T2 socket	3.7 kW 16A	with 6 mA RDC-DD filter
EVH4A07N2	EVlink Home Smart 1P T2 7.4 Kw 32A - with RDC-DD	T2 socket	7.4 kW 32A	with 6 mA RDC-DD filter
EVH4A11N2	EVlink Home Smart 3P T2 11 kW 16A - with RDC-DD	T2 socket	11 kW 16A	with 6 mA RDC-DD filter
EVH4A03NC	EVlink Home Smart 1P attached cable 5m 3.7 kW 16A - with RDC-DD	Attached cable 5 m / 16.4ft	3.7 kW 16A	with 6 mA RDC-DD filter
EVH4A07NC	EVlink Home Smart 1P attached cable 5m 7.4 Kw 32A - with RDC-DD	Attached cable 5 m /16.4ft	7.4 kW 32A	with 6 mA RDC-DD filter
EVH4A11NC	EVlink Home Smart 3P attached cable 5m 11 kW 16A - with RDC-DD	Attached cable 5 m /16.4ft	11 kW 16A	with 6 mA RDC-DD filter

2.2 Dimensions and Weight

Model	EVH4S03N2 EVH4S07N2 (Charger with T2 socket: socket, type T2) EVH4S03NC,EVH4S07NC (Charger with charging cable: cable, type T2) EVH4A03N2,EVH4A07N2 (Smart charger with T2 socket: socket, type T2) EVH4A03NC,EVH4A07NC (Smart charger with charging cable: cable, type T2)	EVH4S11N2 (Charger with T2 socket: socket, type T2) EVH4S11NC (Charger with charging cable: cable, type T2) EVH4A11N2 (Smart charger with T2 socket: socket, type T2) EVH4A11NC (Smart charger with charging cable: cable, type T2)
Power rating	3.7 and 7.4 kW	11 kW
Dimensions	282 mm × 409 mm × 148 mm / <i>11.1 in x 16.1 in x 5.83 in</i>	
Weight	T2 socket: approx. 3.7 kg / 8.15 lb. Attached cable: approx. 5.2 kg / 11.46 lb	
Installation	Wall-mounted	

2.3 Product Description

This charging station is an electrical appliance that supplies electric energy to charge plug-in electric vehicles for indoor and private outdoor areas.
When installing and using the charger, ensure that you comply with local regulations.
The intended use of the equipment includes, in all cases, the environmental conditions established for the equipment.

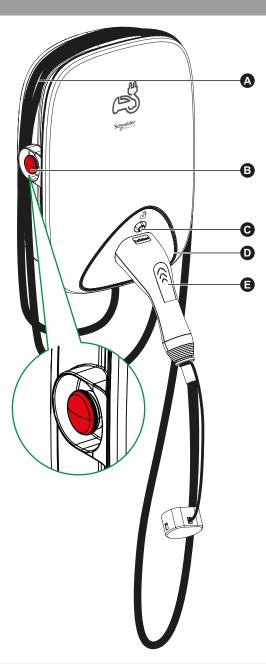


A	Cable winding trough	When not in use, wind the charging cable around the charging station's trough to avoid tripping hazards and equipment damage.
B	Stop button	Only to be used in an emergency. In normal use, stop the charge via the Electric Vehicle. The button can be reset by rotating it 90° clockwise.
C	LED status indicator	Indicate the status of the charger and charging session, section "Charger Status Indicators", page 17.
D	Charging socket	Plug in your T2 charging cable



Description

2.3 Product Description



A	Cable winding trough	When not in use, wind the charging cable around the charging station's trough to avoid tripping hazards and equipment damage.
B	Stop button	Only to be used in an emergency. In normal use, stop the charge via the Electric Vehicle. The button can be reset by rotating it 90° clockwise.
C	Connector unlock button	Push the button to unlock the charging connector.
D	LED status indicator	Indicate the status of the charger and charging session, section "Charger Status Indicators", page 17.
0	Charging connector dock	Dock the charging connector when not in use to avoid tripping hazards and equipment damage.

3.1 General Data

- Ingress protection rating: according to IEC 60529
- □ IP54 for EVlink Home with T2 socket
- IP55 for EVlink Home with attached cable Impact protection rating: IK10 (IEC 62262)
- Socket for T2 cable or T2 attached cable according to IEC 62196-1 and IEC 62196-2
- Operating temperature: -30°C to +50°C (-22°F to +122°F)
- Storage temperature: -40°C to +80°C (-40°F to +176°F)
- Relative humidity: 5-95 %
- Rated voltage (depending on model):
 - □ For 3.7 and 7.4 kW: 220~240V AC, 50 Hz
- □ For 11 kW: 380~415V AC. 50 Hz Rated charging current: 16 A for 3.7 kW, 32 A for 7.4 kW and 16 A for 11 kW
- Accuracy of current, voltage and power measurement: 1%
 Diagram of the earthing system: TN-S, TN-C-S, TT
- Designed for indoor and outdoor use
- OCPP 1.6J (Smart version only)
- Wi-Fi feature 2.4 GHz (Smart version only)
- Operating frequency bands: 2412MHz 2472MHz
 Maximal RF output power: less than 20 dBm (18.25dBm)
- 1 Ethernet port (Smart version only) 1 RS485 port (Smart version only)

3.2 Certification

- IEC/EN 61851-1 ed 3.0
- IEC 61851-21 2
- IEC 62955-2018 EN 61000-6-1
- EN 61000-6-3

3.3 Environnement

- Compliant with the RoHS European directive
- Compliant with the REACH European regulation

3.4 Accessories

- EVlink Home Anti-tripping module, single-phase (EVA1HPC1)
- EVlink Home Anti-tripping module, three-phase (EVA1HPC3)

Notes:

EVlink Home & EVlink Home Smart Charger provide "Pairing" function with Anti-tripping module. Refer to Anti-tripping module's instruction sheet.

Protection

A A DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH Do not install automatic reset systems on the residual current protection device.

Failure to follow these instructions will result in death or serious injury.

Upstream Protections

Electric Vehicle measures the earth resistance and will only start charging if it's lower than the threshold defined by the Electric Vehicle manufacturer. Refer to the vehicle's technical documentation.

The choice of electrical protections and wire gauges must comply with local regulations and the information below as well as the constraints of the electrical installation. In particular, the selected protection must not only satisfy the requirements of IEC 61851-1 ed 3.0 but must also limit the value of I²t to less than 75 000 A²s in case of a short-circuit.

Charging station rated current	16 A 1-Ph	32 A 1-Ph	16 A 3-Ph
Protection against overload and short circuits	20 A curve B or C (1)	40 A curve B or C (1)	20 A curve C
Differential protection	30 mA type A	30 mA type A	30 mA type A

(1) According to selectivity with upstream protections

Recommended protection: Acti9 iC60

A Undervoltage release (MNx) controlled by the charging station must be installed to enable to activate the upstream circuit-breaker tripping

The protections described below should only be taken as suggestions and Schneider Electric cannot be held liable.

Recommendations for lightning protection

One surge arrester per charger is recommended for high keraunic levels, mandatory if required by local regulations.

Power Cable Requirements

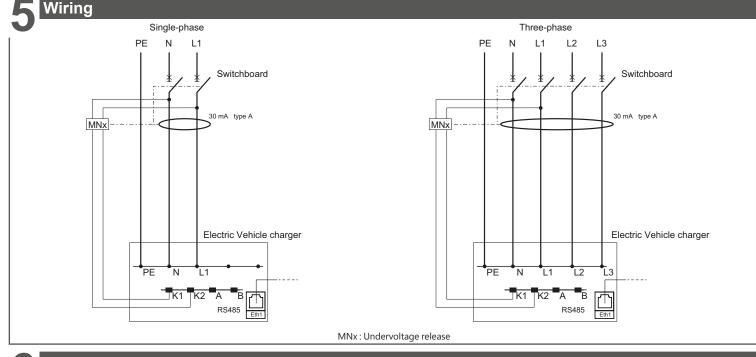
- For wiring section "Wiring", page 8, please comply with local regulations.
- The maximum wire gauge should not exceed 6 mm² (AWG 9).
- Two types of wire as recommended when connecting the charging station to the power supply:
- To use flexible cables with ring terminal and crimp ring terminals. To use rigid cable.

1-phase installations

	Distribution board - EVlink Home and EVlink Home Smart	EVlink Home and EVlink Home Smart - Undervoltage Release (MNx)
Diameter	3 x 6 mm² (3 x AWG 9) (Type U1000R2V 3G)	2 x 0.5 mm ² (2 x AWG 20)
Length	< 50 meters (164.04 ft)	< 30 meters (98.43 ft)

3-phase installations

	Distribution board - EVlink Home and EVlink Home Smart	EVlink Home and EVlink Home Smart - Undervoltage Release (MNx)
Diameter	5 x 6 mm² (5 x AWG 9) (Type U1000R2V 5G)	2 x 0.5 mm ² (2 x AWG 20)
Length	< 50 meters (164.04 ft)	< 30 meters (98.43 ft)



Connection

A A DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Disconnect the mains power supply before working on the charger.
- Use a Voltage Tester of appropriate rating.
- Do not turn on the charging station if the earth resistance measured is higher than the threshold defined in the enforceable regulations.
- Connection to a Undervoltage release (MNx). It is not supplied with the charging station.
- Failure to follow these instructions will result in death or serious injury.

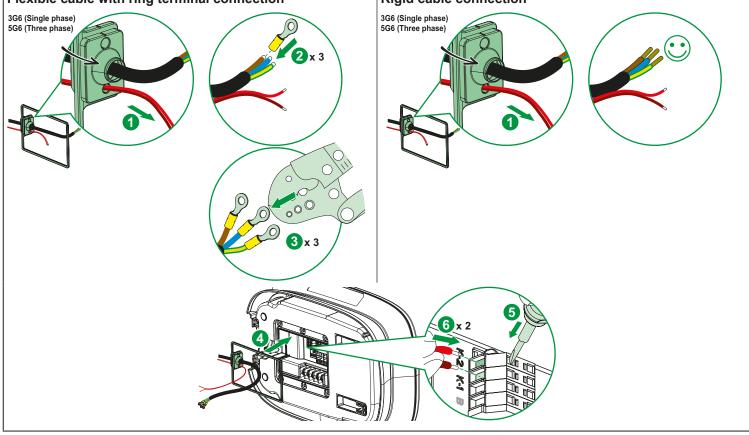
6.1 Undervoltage Release (MNx)

- Install a Undervoltage release (MNx) as described in the wiring diagram (section "Wiring", page 8) to increase operator safety with IEC 61851-1.
- Connect the Undervoltage release (MNx) with 0.5 mm² (20 AWG) 2-core cable with insulation for 220~240 V no wider than 5 mm.
- Take the rubber gasket and poke out 1 of the 2 rubber plugs.
- Pass the 2 wires connecting the Undervoltage release (MNx) through the now empty plug.
- Inside the EVlink Home charger, insert 1 wire from the Undervoltage release (MNx) into the K2 terminal of the connector (insert thin screwdriver into connector's largest hole and push down to open clamp).
- Insert the other end into the K1 terminal of the connector (insert thin screwdriver into connector's largest hole and push down to open clamp).

6.2 Wire-up Power Supply

Flexible cable with ring terminal connection

Rigid cable connection



Connection 6.2 Wire-up Power Supply Flexible cable with ring terminal connection **Rigid cable connection** 3 9 x 3 П Cable connection type Cable section $\bigcirc \bigcirc \bigcirc$ N.m ∎\$ Flexible cable with Ring terminal 2.5 - 6 mm² 8 mm AWG 13.2 - 9.4 0.31 in 1.7 N.m PH2 / PZ2 15.04 lb-in 13 mm 2.5 - 6 mm² Rigid cable AWG 13.2 - 9.4 0.51 in 1 phase EVlink Charger Õ 0 0 0 0 \bigcirc ۲ 0 L3 2 L3 Έ L1 ~ ~ 11&22kW 11&22kW X 7kW X 7kW <u>U</u> <u>U</u> 16 \bigcirc 0 0 \bigcirc 0 \bigcirc **3 phases EVlink Charger** 0 0 0 C 0 ()⊕ (H)

> Note: Please ensure all 3 phases are connected correctly Power supply cable from the bottom side.

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'kW

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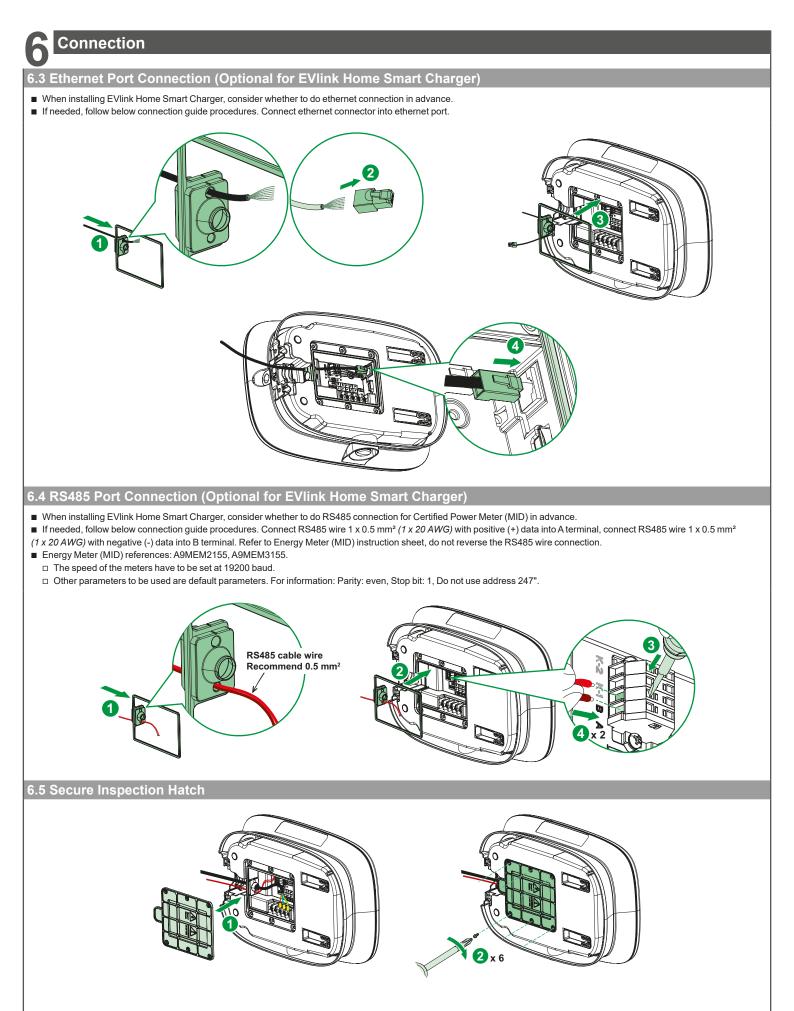
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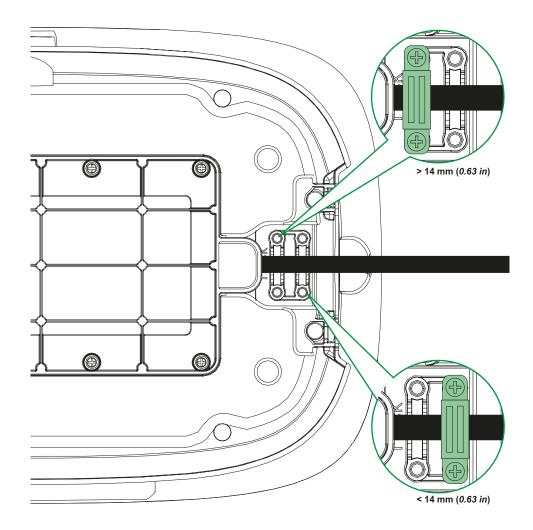
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Connection

6.6 Clamp Power Cable

Select clamp position according to power cable diameter





A A DANGER

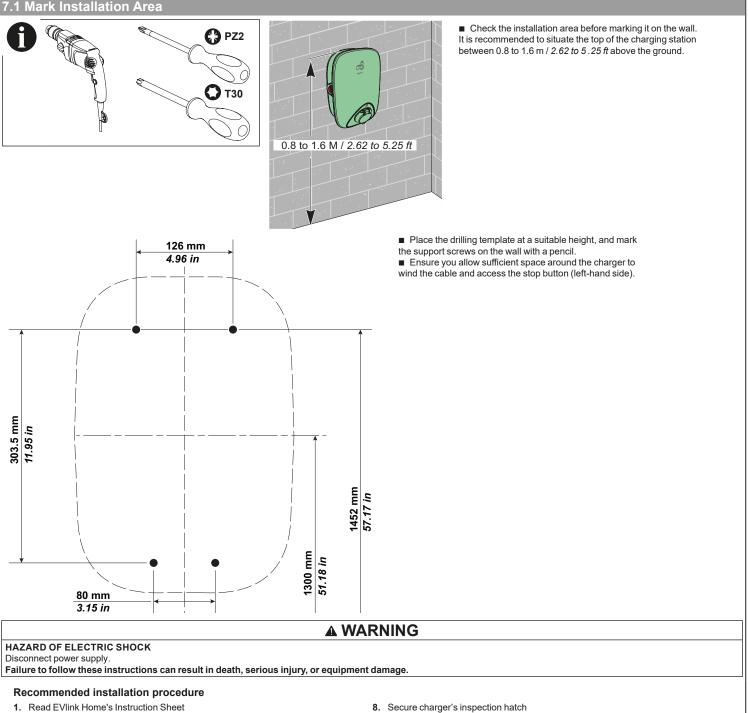
HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Disconnect power supply before working on this equipment.
- Use a voltage tester of suitable rating.
- Do not start the charging station if the ground resistance measured is greater than the threshold defined by the applicable law.
- Install the over-current and residual current protections as described in the instructions and recommendations chapter (section "Operation", page 16).
- Do not use a system which automatically resets the residual current circuit breaker.
- Failure to follow these instructions will result in death or serious injury.

A WARNING

RISK OF DAMAGING THE CHARGING STATION

- Protect the charging station from dust and water while fixing the bracket.
- Attach the charging station to a flat surface.
- Use screws, washers and wall plugs suitable for the wall material.
- Failure to follow these instructions can result in death, serious injury, or equipment damage.



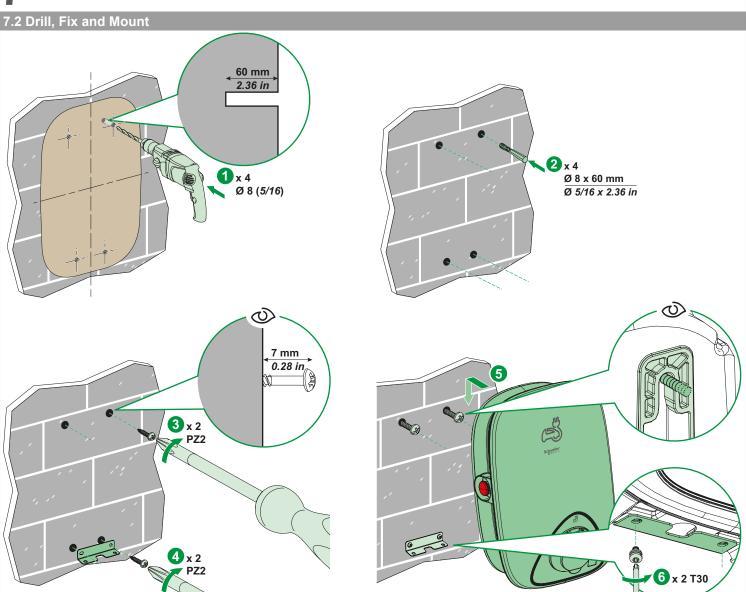
- Mark area using Installation Template sheet 2.
- 3. Drill holes through template
- 4. Fix screws and bracket to holes
- Wire upstream protection (section "Protection", page 7) 5
- 6. Wire shunt trip release (MNx) to charger
- 7. Wire power supply to charger

- Clamp charger's power cable 9.
- 10. Mount charger onto screws and bracket
- Fix bracket to charger

- 12. Install anti-tripping system (optional)
 13. Inspect installation (section "Inspection", page 13)
 14. Check stop button unlocked (section "Configuration", page 14)
- 15. Reconnect power supply

Installation





Inspection

A A DANGER

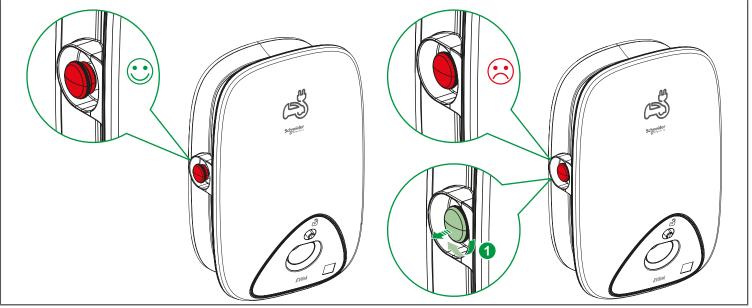
HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

Wear suitable personal protective equipment (PPE) and follow all safety procedures. Failure to follow these instructions will result in death or serious injury.

- Check that the inspection hatch is correctly screwed down.
- Ensure that the power cable is securely fastened by the crimping collar.
- Check that the cover of the charging station is intact and hasn't suffered any obvious mechanical damage or deformation.
- Check that the charging station is securely fastened to the wall.
- Check that nothing is impeding the connection of the charging cable to the charger socket.

Configuration

■ Check that the Stop Button is unlocked by rotating it 90° clockwise.



Cable Storage

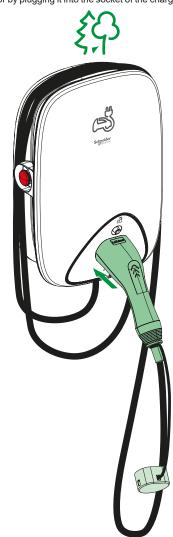
A A DANGER

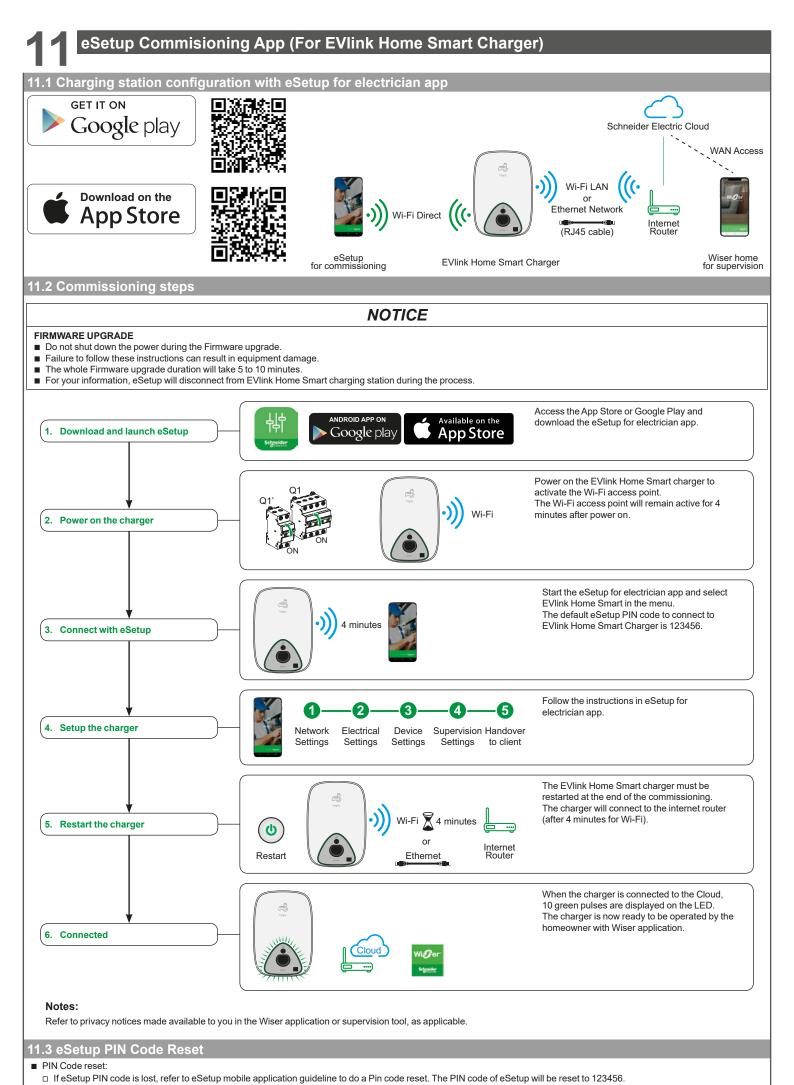
HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

Regularly check the integrity of the cable. Failure to follow these instructions will result in death or serious injury.

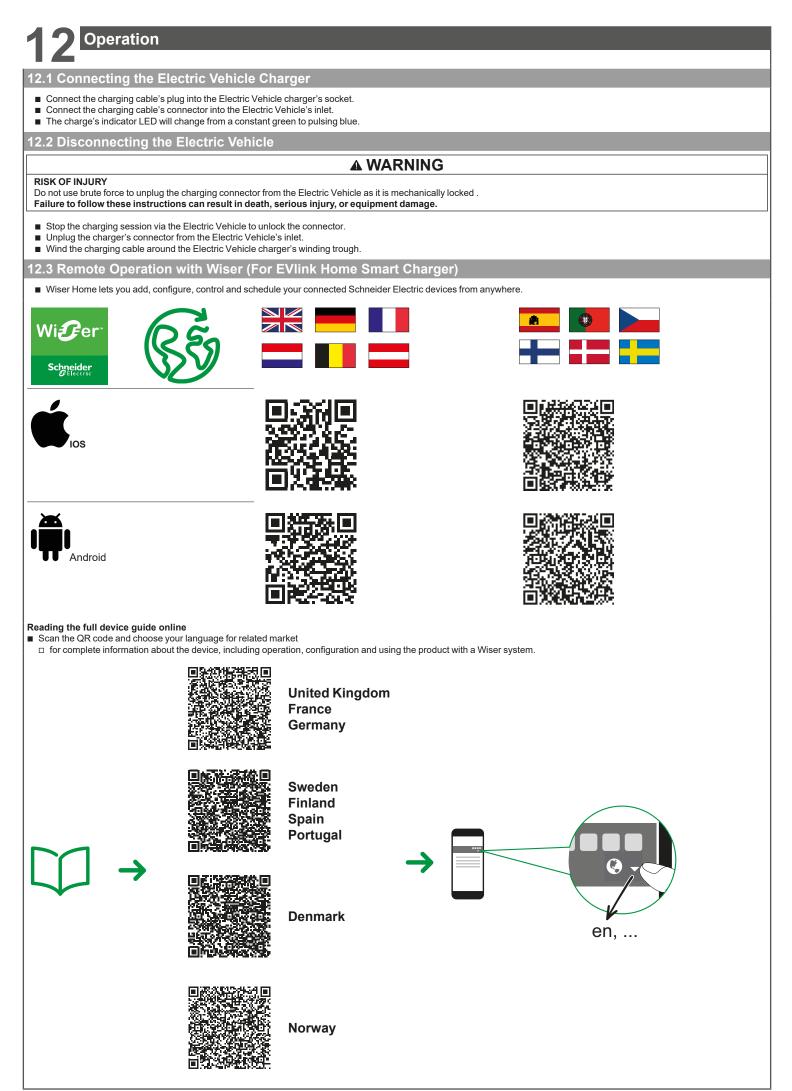
- Ensure that the charging connector and charging cable are securely stored between charging sessions. Wrap the charging cable around the charging station's cable trough.
- If the EVlink Home Charger and EVlink Home Smart Charger are installed indoors, protect the connector by covering it with the dust cap.
 If the EVlink Home Charger and EVlink Home Smart Charger are installed outdoors, store the connector by plugging it into the socket of the charger.







GEX4292700-00 EN



Charger Status Indicators

LED color	LED behaviour	Charger Status
Green	Constant	Standby
Green	Blinking	Firmware upgrade in process
Green	Blinking (10 s)	Charger connected to the Cloud
Light Green	Slow Pulsing	Ready to charge, not connected to the cloud, refer to section "Basic Troubleshooting", page 17
Blue	Constant	Charge complete (< 1 A after 20 minutes)
Blue	Pulsing	Charging
Blue	Fast blinking	Charging suspended
Purple	Constant	Pairing status for Anti-tripping device
Red	Constant	Please refer to section "Basic Troubleshooting", page 17

Basic Troubleshooting

Symptom	Possible causes and solutions
Connector plugged into Electric Vehicle but not charging	 Verify that the connector was inserted properly by unplugging and plugging it back into the Electric Vehicle's socket. Verify the charging sequence by following the procedure described in section "Operation", page 16.
Charger's LED light green slow pulsing (EVlink Home Smart Charger ONLY)	 Reboot the EVlink Home Smart Charger and wait 10 s before to energize it. EVlink Home Smart Charger is not connected to the cloud If using Wi-Fi: Verify that you connect EVlink Home Smart Charger to a 2.4 GHz Wi-Fi with WPA2 password Verify that the SSID and password are correct. In case the Wi-Fi signal is too weak: connect the charger with Ethernet cable, or add a Wi-Fi range extender.
Charger's LED illuminated red	 Verify that the Stop Button isn't locked by rotating it 90° clockwise to unlock it. If not, switch off the power supply to the charger, unplug the connector from the Electric Vehicle, reconnect the power supply, wait for the charger to become ready (LED glows green), before reconnecting the connector to the Electric Vehicle. Failing that, check that the power supply is securely wired to the charger's PE (Protective Earth) terminal.
Charger's LED off	No power supply. Switch off the power supply to the charger, charger possibly damaged. Please contact Schneider Electric's Customer Care Centre.

Wireless Feature Declaration

For Europe (where the CE marking is applicable):

Hereby, Schneider Electric Industries, declares that this electric vehicle charging station EVlink Home Smart is in compliance with the essential requirements and other relevant provisions of Radio Equipment Directives RED 2014/53/EU.

The EU declaration of conformity for EVlink Home Smart offer (EV22080801) can be downloaded on: se.com/docs.

■ Wi-Fi:

- □ Operating frequency bands: 2412 MHz 2472 MHz
- □ Maximal RF output power: less than 20 dBm (18.25 dBm)

For UK:

Hereby, Schneider Electric Industries, declares that this electric vehicle charging station EVlink Home Smart is in compliance with the essential requirements and other relevant provisions of Radio Equipment Regulation SI 2017 No. 1206.

The UK declaration of conformity for EVlink Home Smart offer (EV22080801-UK) can be downloaded on: se.com/uk/docs.

- Wi-Fi:
 - □ Operating frequency bands: 2412 MHz 2472 MHz
 - Maximal RF output power: less than 20 dBm (18.25 dBm)



Recycle

The packaging materials from this equipment can be recycled.

The product and all accessories marked with this symbol are electrical and electronic components that must be disposed of separately from household waste. Please help protect the environment by disposing waste in appropriate containers.

Thank you for helping to protect the environment.



Do not open the charger or remove the cover. Contractual warranty: 18 months.

NOTE

NOTE

NOTE	
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United Kingdom

