**Edge Electrons Limited**
Unit 7A 7TH Floor, New Solid Building
357 Sen. Gil Puyat Ave.
Makati, Philippines

## INSTALLATION, COMMISSIONING AND OPERATION MANUAL

# EdgeSensor (600 Series)

## EE-405

DOCUMENT INFORMATION

| | | | |
|---|---|---|---|
| Document ID | E-IM-EE-405 | Version | B6 |
| Prepared by | Leonard Torio | Date of Issue | Nov 18, 2025 |

APPROVED BY

| | | |
|---|---|---|
| Engineering Manager | Jian Carlo Zapata | Date: |

## REVISION HISTORY

| Revision no. | Date of Revision | Revision no. | Date of Revision |
|---|---|---|---|
| 1.2 | 07/14/2022 | B1 | 09/30/2024 |
| 1.3 | 09/27/2022 | B2 | 10/09/2024 |
| 1.4 | 12/01/2022 | B3 | 11/13/2024 |
| A2 | 09/13/2023 | B4 | 05/21/2025 |
| A3 | 09/21/2023 | B5 | 11/12/2025 |
| A4 | 10/03/2023 | B6 | 11/18/2025 |
| A5 | 02/13/2024 | | |
| A6 | 04/04/2024 | | |
| A7 | 08/16/2024 | | |
| A8 | 09/11/2024 | | |

## CHANGE RECORD

| Revision no. | Prepared by | Description on Changes |
|---|---|---|
| 1.2 | T. Tomagan | Page2:<br>Section IV. 3. Antenna Installation --> Rogowski CT Installation<br>Page4:<br>Rated Voltage<br>100 – 277 Vac (L1-to-N, Supply Voltage)<br>170 - 480 Vac 4-Wire/3 Phase Network (Line-to-Line) Plus Neutral for power quality data<br>Absolute Maximum Voltage Rating<br>300 Vac (L1-to-N)<br>520 Vac (Line-to-Line)<br>Page13:<br>3. Rogowski CT Installation (was Antenna Installation) |
| 1.3 | T. Tomagan | Page 15/Section 5.1.<br>It is important to first connect the Neutral voltage sense wire before connecting L1, L2, and L3 voltage sense wires. |
| 1.4 | T. Tomagan | Page 3: GDL drawing replaced with one with external |

| | | |
|---|---|---|
| | | antenna<br>Page 3: Data comms changed to Lora<br>Page 4: add NEMA Type 4X on IP rating<br>Page 9: Add pad mount and Antenna in box contents<br>Page 11: Add picture for pole mount installation<br>Page 12: Add picture for pad mount installation<br>Page 12: Change pictures for antenna installation |
| A2 | T. Tomagan | 1)Trade Mark to be Edge Zero (All pages)<br>2)Remove Series from EE-405 Series ( page 1)<br>3)IP ratings updated to IP67<br>4)Line Surge updated to 6kV/3kA<br>5)Add Commisioning procedure Pages 19-24 |
| A3 | T. Tomagan | 1) Change weight from 4.0kg to 2.6kg as requested by UL |
| A4 | T. Tomagan | 1) Section 6.1 - Add the phrase "If to be installed in live condition". |
| A5 | L. Torio / T. Tomagan | 1) Updated pics and instructions as per below:<br>Box Content Pictures accessory p9<br>Antenna Installation p11<br>Circular mount p12<br>Stobie mount p13<br>Pad Mount p14<br>Twist Lock CT p16<br>2) Updated the the following specifications (pp 4-5)<br>Operating Humidity: 0-95% RH non-condensing<br>Operating Temperature: -20°C to 60°C<br>Short Time Maximum Temperature: 70°C for 1 hour<br>Operating Temperature Tested by Design: -40°C to 60°C<br>Storage Temperature: -40°C to 80°C |
| A6 | T. Tomagan | 1) Updated GDL picture and add CE, UKCA, and FCC logo (1.Features p3)<br>2) Corrected events logging from 10days to 90days (1.Features p3)<br>3) Updated Data Comms details (1.Features p3)<br>4) Add Unit Ingress Protection: IP67; Compatible to meet NEMA Type 4 (1.Features p3)<br>5) Add IEC 61010-1, 61010-2-030 (1.Features p3)<br>6) Deleted "and connection for Edge Power Factor Correction PowerSave v2.0" from "Communications Options" (Connectivity p4) |
| A7 | E. K. Palmes | 1) Transformer Config changes<br>2) Change NEMA Type 4 to UL Type Rating 4 |

| | | |
|---|---|---|
| A8 | T. Tomagan | 1) Add Overvoltage Category Rating<br>2) Add Insulation Rating & Type<br>3) Update Power Quality Measurements<br>4) Update Back Up Power/" Last Gasp" Hold-up Time<br>5) Update Communications Options<br>6) Add box dimension and weight |
| B1 | C. M. Marcelo | Change Brand Name from Grid Data Logger to EdgeSensor (600 Series) |
| B2 | E. K. Palmes | 1) Added MV Isolator Bushing and Conduit Insulation to Transformer Configuration Diagrams under III. Wiring Connections<br>2) Added Medium Voltage Current Transformer Isolator Bushing Installation under VI. Installation Procedure |
| B3 | E. K. Palmes | 1) Under III. Wiring Connection. Swapped Line-to-Line and Line-to-Earth diagrams.<br>2) Updated Line-to-Earth and Mid-tap A-B diagrams.<br>3) Changed CoAP command of Mid-tap A-B Medium Voltage from transformerconfig 7 to 4. |
| B4 | L. Torio | 1) II.1 Features – updated image<br>2) VI.1 - updated images for step3 and Complete assembled antenna<br>3) VI.5 - updated images for Fig.12 and Fig.13<br>4) VI.6 - deleted steps 6.1 to 6.4 and figures 14 and 15<br>5) VI.7 - updated images for Fig.16, Fig.17, Fig.18, Fig.19, and Fig.20 |
| B5 | K.B. Fronda | 1) Update transformer config drawings<br>2) Update transformer config headings:<br>○ Single Phase (2-Wire) Configuration to Single Phase (2-Wire) Mains / Grid Connection<br>○ Single Phase (3-wire) Line-to-Earth Configuration to Single Phase (3-wire) Line-to-Earth Mains / Grid Connection<br>○ Single Phase (3-Wire) Line-to-Line Configuration to Single Phase (3-wire) Line-to-Line Mains / Grid Connection<br>○ Three Phase (4-wire) Wye Line-to-Neutral to Three Phase (4-Wre) Wye Line-to-Neutral Mains / Grid Connection<br>○ Three Phase (3-Wire) Delta with Line-C Earthed Configuration to Three Phase (3-wire) Delta Clockwise Mains / Grid Connection and Three Phase (3-wire) Delta Counter-Clockwise Mains / Grid Connection<br>○ Three Phase (3-Wire) Delta with Mid Tap |

| | | |
|---|---|---|
| | | Connection on A-B Configuration to Three Phase (3-Wire) Delta with Mid Tap Connection on A-B Mains / Grid Connection<br>3) Add Medium Voltage Monitoring Installation Diagrams<br>○ Single Phase (2-wire, 1PT) - Medium Voltage Mains Connection<br>○ Three Phase (4-Wre, 3PT) Wye - Medium Voltage Mains Connection<br>○ Three Phase (3-Wire, 2PT) Delta Clockwise - Medium Voltage Mains Connection<br>○ Three Phase (3-Wire, 2PT) Delta Counter-Clockwise - Medium Voltage Mains Connection |
| B6 | T. Tomagan | 1. Section VII: Add Power-On Procedure<br>2. Section VIII: Simplify commissioning procedure |

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## INSTALLATION, COMMISSIONING AND OPERATION MANUAL

# EdgeSensor (600 Series)

## EE-405

## I. TABLE OF CONTENTS

## II. PRODUCT DATASHEET

### 1. Features

**Compact Smart EdgeSensor (600 Series)**

- Monitors and Transmits Grid Full Power Quality Data.
- Grid or Transformer Status Monitoring Unit
- For both Single or Three Phase Installations
- Wide Voltage Input - 100-520VAC
- High Temperature Polycarbonate IP67 enclosure
- Monitors and Transmits Full Grid or Transformer Status including Full Power Quality Data.
- Full Alarms including - Power Outages and Recovery, Overloading, Overvoltage, Undervoltage, PF min., Reverse Current.
- Remote Firmware Upload to add upgrade Custom Options and modify Alarm Limits.
- Intelligent Software Control: Network compatible Unit that is Programmable over Internet.
- Encryption AES128 & SHA256 over private APN.
- Quick install Utility Grade Rogowski Current Transformers.
- Events Logging 90 days (4GB) – Store and Forward.
- EMI Electrical Noise Suppression Networks.
- Line Surge protected - IEC 61000-4-5 to 6kV / 3kA
- Data Comms – Cellular (4G Cat-1 and LTE CAT-M1) and LoRa Mesh for redundancy.
- Unit Ingress Protection: IP67 / UL Type Rating 4
- IEC 61010-1, 61010-2-030
- Patents Pending.

### 2. Description

The EdgeSensor (600 Series) is a Compact Grid Edge Power Quality Monitor that incorporates Edge Electrons Power Quality Grid Edge Technology. It is an intelligent, software-driven, full Power Quality Grid Monitoring Sensor, installed on Pole or Pad Transformers that monitors Status and Alarms. The EdgeSensor (600 Series) is specifically designed to be an Intelligent Network Device that monitors and transmits secure full Power Quality Data with additional Status Alarms for Grid Edge Applications and remote Software updates for additional Custom Features and setting Alarm Limits.

| **Electrical Specifications** | |
|---|---|
| Available Configurations | *1 Phase, 2 Wire configurations*<br>*2 Phase, 3 Wire configurations*<br>*3 Phase, 4 Wire configurations* |
| Electrical Frequency | *50/60Hz* |
| Rated Voltage | *100 – 277 Vac (L1-to-N, Supply Voltage)*<br>*170 - 480 Vac 4-Wire/3 Phase Network (Line-to-Line) Plus Neutral for power quality data* |
| Absolute Maximum Voltage Rating | *300 Vac (L1-to-N)*<br>*520 Vac (Line-to-Line)* |
| Current Full Scale Range | *4000 Amps RMS* |
| Overvoltage Category Rating | *CAT-IV* |
| Insulation Rating & Type | *Measurement category Cat-IV (IEC61010)* |
| Lightning Strike | *Power line surge protected - IEC61000-4-5* |
| Voltage Accuracy | *± 1%*<br>*± 0.3% with Manufacturing Sensor Calibration* |
| Power & Energy Accuracy | *± 3% + 0.5% of Current Full Scale*<br>*± 0.5% + 0.1% of Current Full Scale with Manufacturing Sensor Calibration* |
| Power Factor Accuracy | *± 1 degree* |
| Power Quality Measurements | *Voltage, Current, Power, Energy, vTHD, iTHD, individual harmonics*<br><br>*Dedicated energy meter IC that supports IEC 62053-21, IEC 62053-22, IEC 62053-23, EN 50470-1, EN 50470-3, ANSI C12.20, and IEEE1459 standards Supports IEC 61000-4-7 Class I and Class II accuracy specification* |
| Reporting Interval | *1min transmit time* |
| Back Up Power/" Last Gasp" Hold-up Time | *60 seconds*<br>*Event Tag 167 - Power Outage Alert (1sec)*<br>*Event Tag 166 - Power Outage Fault (30sec)*<br>*Event Tag 168 - True Power Outage (60sec)* |
| **Alarms and Event Logging** | |
| Grid Power Quality Alert | *Power Outage, Power Restore, Current Imbalance, Maximum iTHD, Reverse Current Flow, Low Power Factor*<br>*Voltage Imbalance, Maximum vTHD, Over-voltage, Under-voltage, Voltage Swell, Voltage Sag, Voltage Flicker*<br>*Over-frequency, Under-frequency* |
| Transformer Asset Management | *Overload (Power), Peak demand Alert, Over-current, Fault Current Reading, No Current Reading*<br>*No Voltage Reading* |
| Measured Parameters | *V, I, PF, kW, kVA, kVAr, Energy, vTHD, iTHD, up to 21st harmonics* |
| **Connectivity** | |
| Communications Options | *Cellular Communications with embedded CAT-1 / CAT-M1 modem, Private APN with AES128 & SHA256 encryption IPSec tunnel.*<br>*LoRa Mesh for data communication redundancy.*<br><br>*4G Cat-1 Frequency Bands:*<br>*LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/ B19/B20/B25/B26/B28*<br>*LTE-TDD: B38/B39/B40/B41 WCDMA: B1/B2/B4/B5/B6/B8/B19*<br>*GSM: B2/B3/B5/B8* |
| | *Periodic reporting to a central IoT Cloud server* |

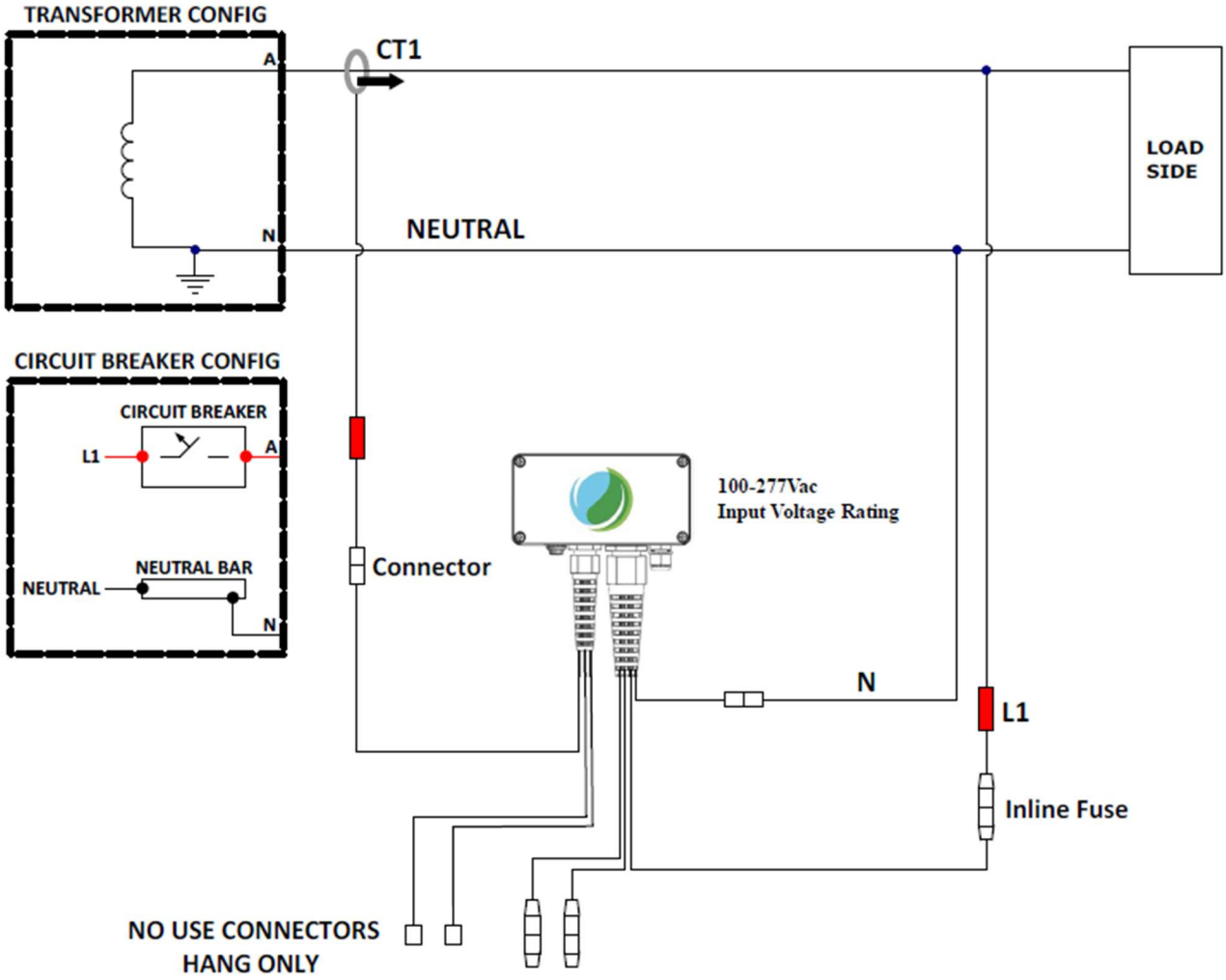
| | |
|---|---|
| Communications Architecture | *On demand reporting to a SCADA system* |
| IoT Communications | *Push notification on Alerts* |
| | *CoAP with DTLS security* |
| **Mechanical and Environmental** | |
| Dimensions | *Unit: L160 x W80 x H90 mm*<br>*Box: L474 x W274 x H251 mm* |
| Weight | *Unit: 2.6kg*<br>*Box: 4.4kg* |
| IP Rating | *IP67 / UL Type Rating 4* |
| Power Supply Button | *Phase 1 Power Supply Button to initialize the unit* |
| Operating Humidity | *0-95% RH non-condensing* |
| Operating Temperature | *-20°C to 60°C* |
| Short Time Maximum Temperature | *70°C for 1 hour* |
| Operating Temperature Tested by Design | *-40°C to 60°C* |
| Storage Temperature | *-40°C to 80°C* |
| Operating Altitude | *2000m* |

## III. WIRING CONNECTION

### Low Voltage Monitoring Installation Diagrams

1. Single Phase (2-Wire) Mains / Grid Connection

CoAP command: transformerconfig 1

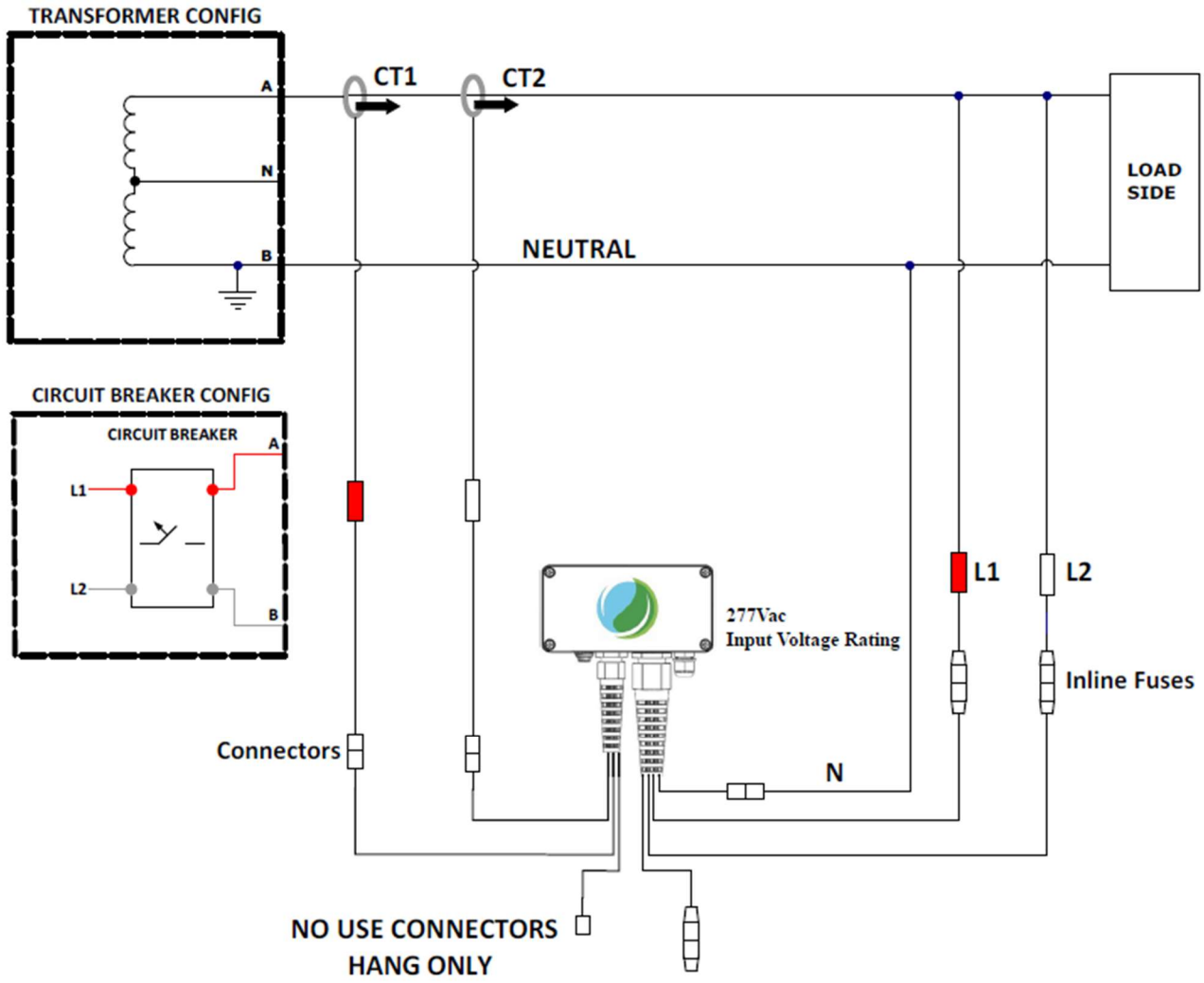



Single Phase (2-Wire)

**Fig. 1**

2. Single Phase (3-wire) Line-to-Earth Mains / Grid Connection

CoAP command: transformerconfig 2

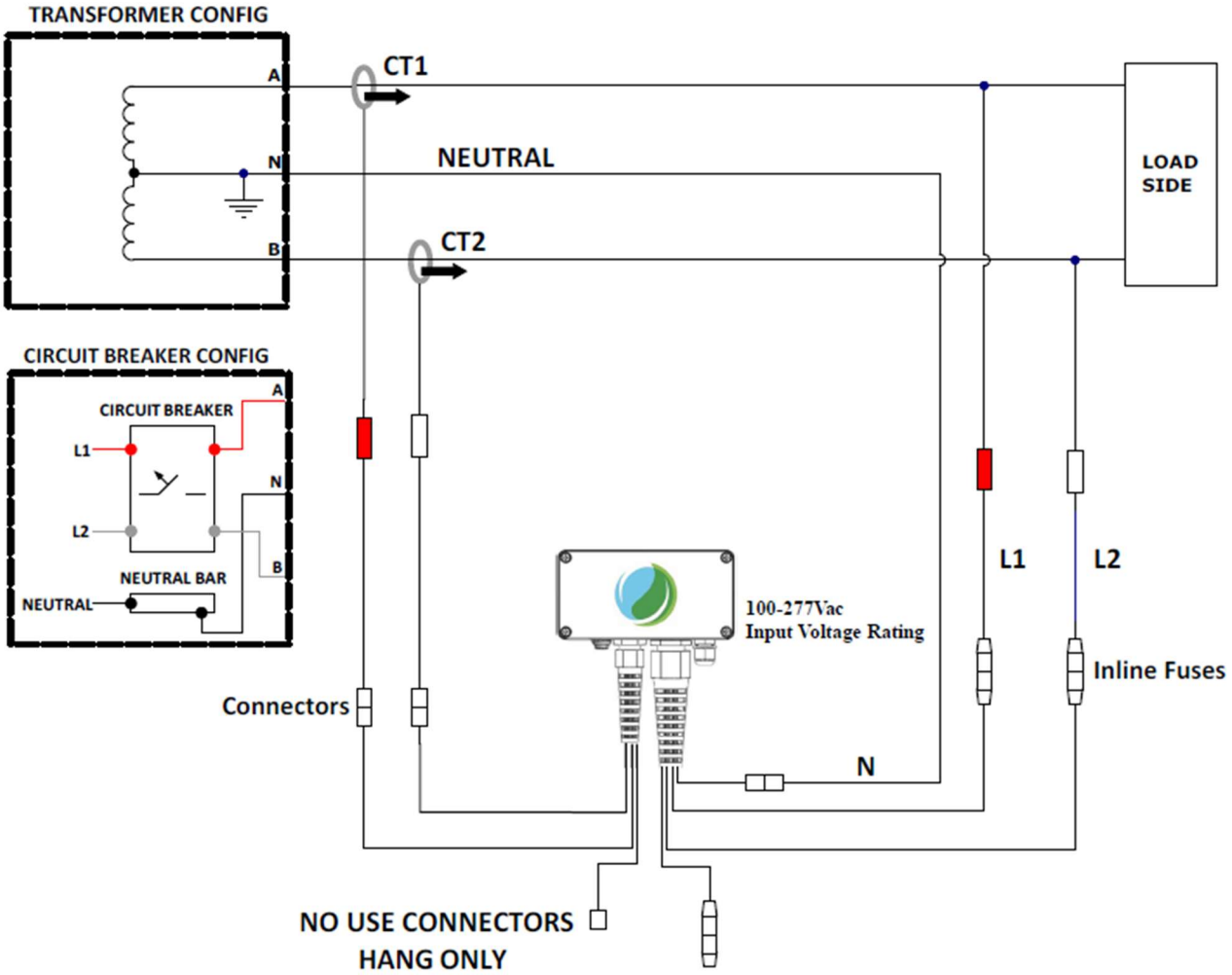



Single Phase (3-wire) Line-to-Earth

**Fig. 2**

3. Single Phase (3-wire) Line-to-Line Mains / Grid Connection

CoAP command: transformerconfig 6

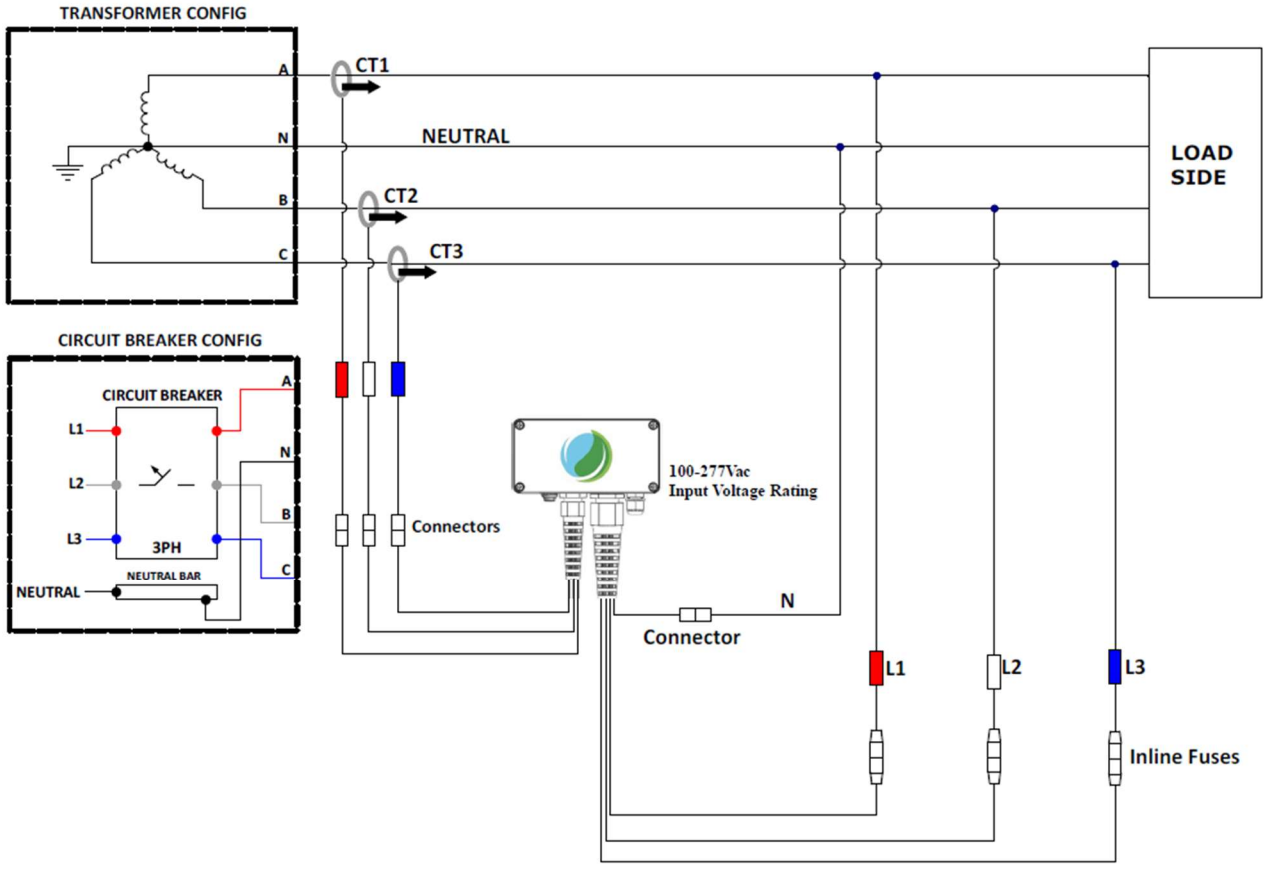



Single Phase (3-Wire) Line-to-Line

**Fig. 3**

4. Three Phase (4-Wire) Wye Line-to-Neutral Mains / Grid Connection

CoAP command: transformerconfig 3

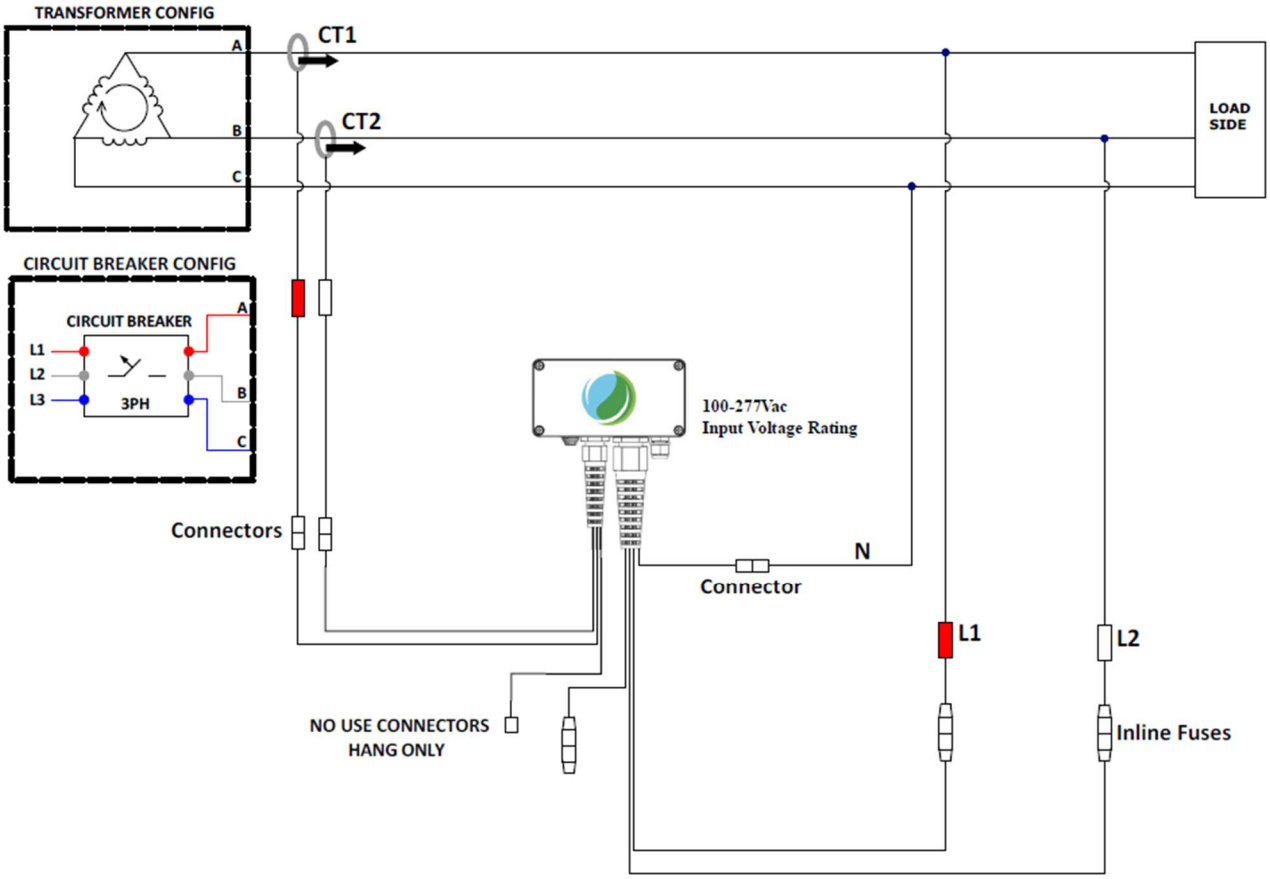



Three Phase (4-wire) Wye Line-to-Neutral

**Fig. 4**

5. Three Phase (3-wire) Delta Clockwise Mains / Grid Connection

CoAP command: transformerconfig 4

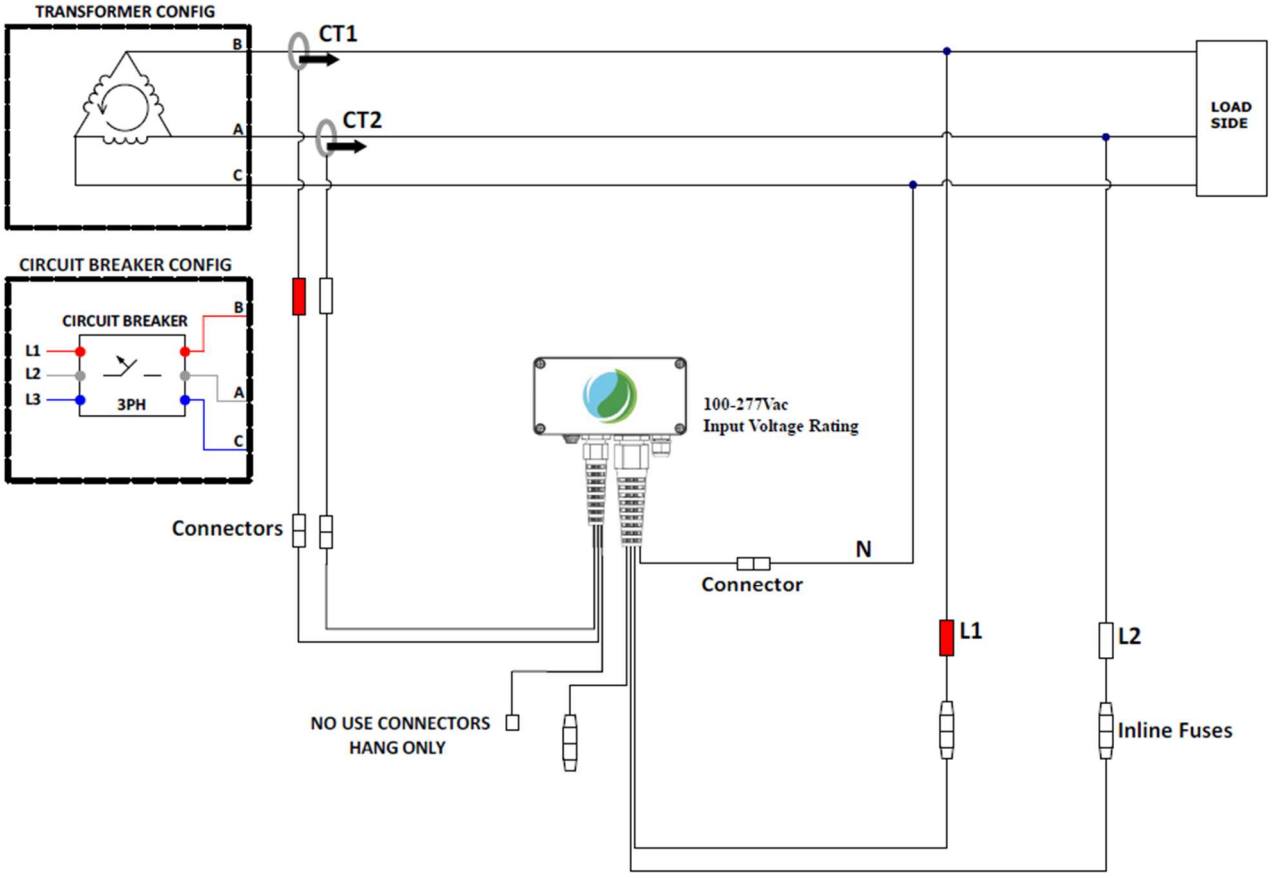



Three Phase (3-wire) Delta Clockwise Mains

**Fig. 5**

6. Three Phase (3-wire) Delta Counter-Clockwise Mains / Grid Connection

CoAP command: transformerconfig 4

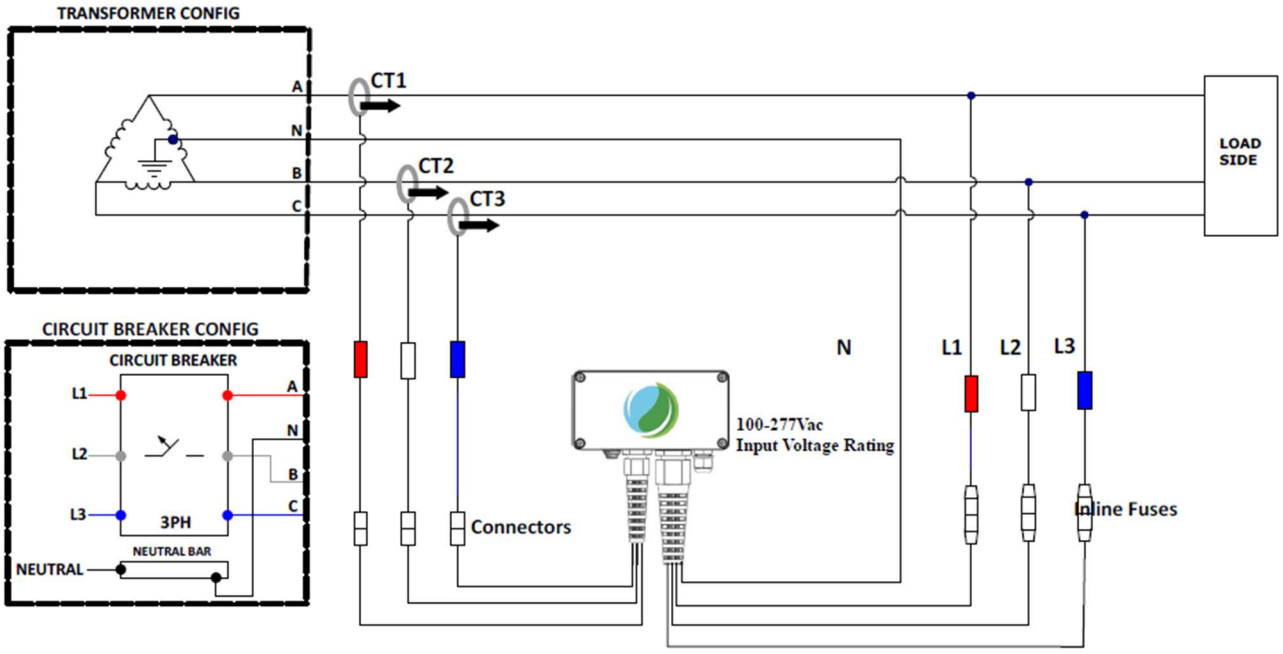



Three Phase (3-wire) Delta Counter-Clockwise Mains

**Fig. 6**

7. Three Phase (3-Wire) Delta with Mid Tap Connection on A-B Mains / Grid Connection

CoAP command: transformerconfig 7



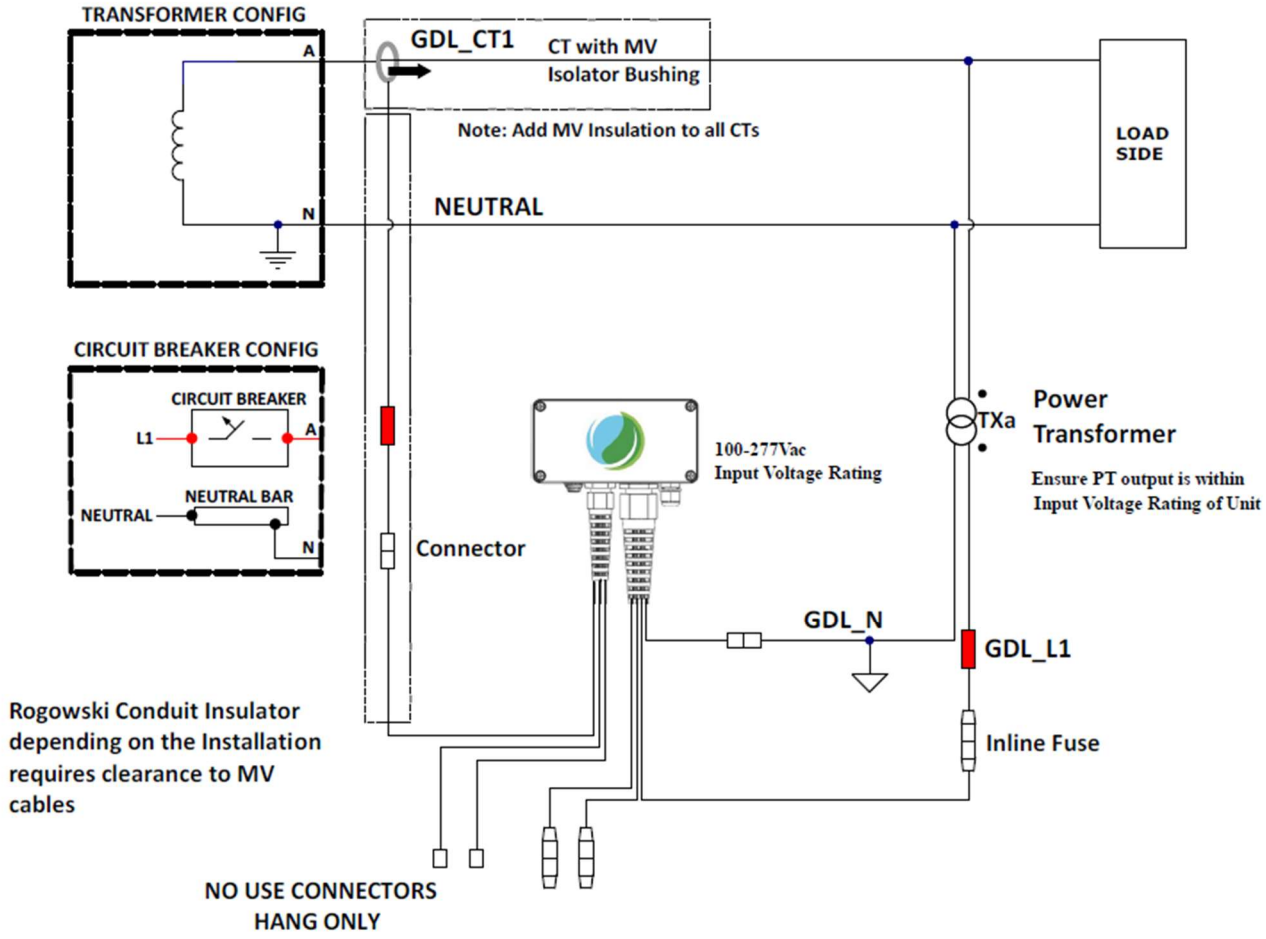

Three Phase (3-Wire) Delta with Mid Tap Connection on A-B Mains

**Fig. 7**

**Medium Voltage Monitoring Installation Diagrams**

1. Single Phase (2-wire, 1PT) - Medium Voltage Mains Connection

CoAP command: transformerconfig 1




Single Phase (2-wire, 1PT) - MV

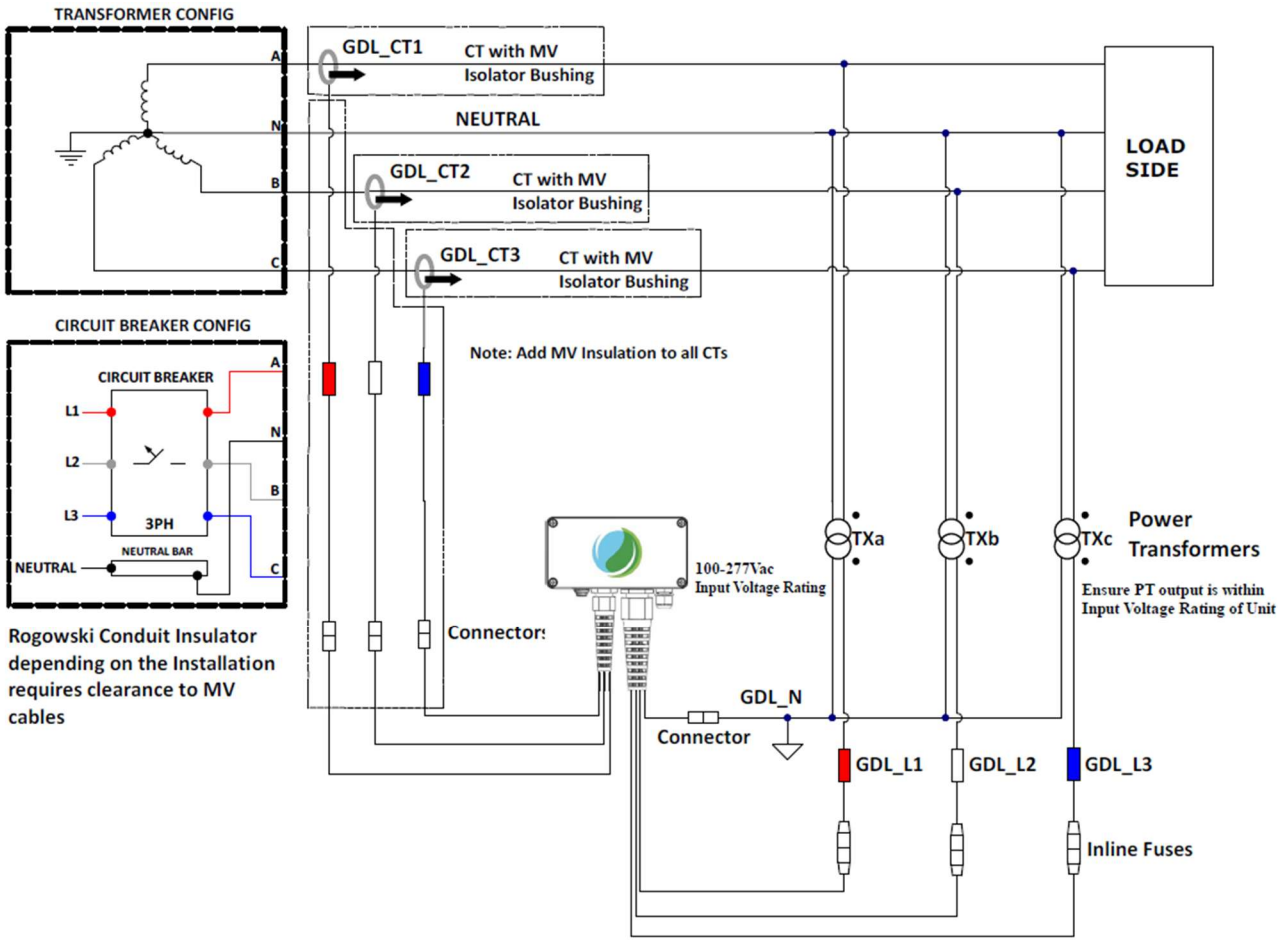
**Fig. 8**

Note:

1. Refer to section IV.8 for the MV CT Isolator Bushing installation.

2. Three Phase (4-Wire, 3PT) Wye - Medium Voltage Mains Connection

CoAP command: transformerconfig 3




Three Phase (4-Wire, 3PT) Wye - MV

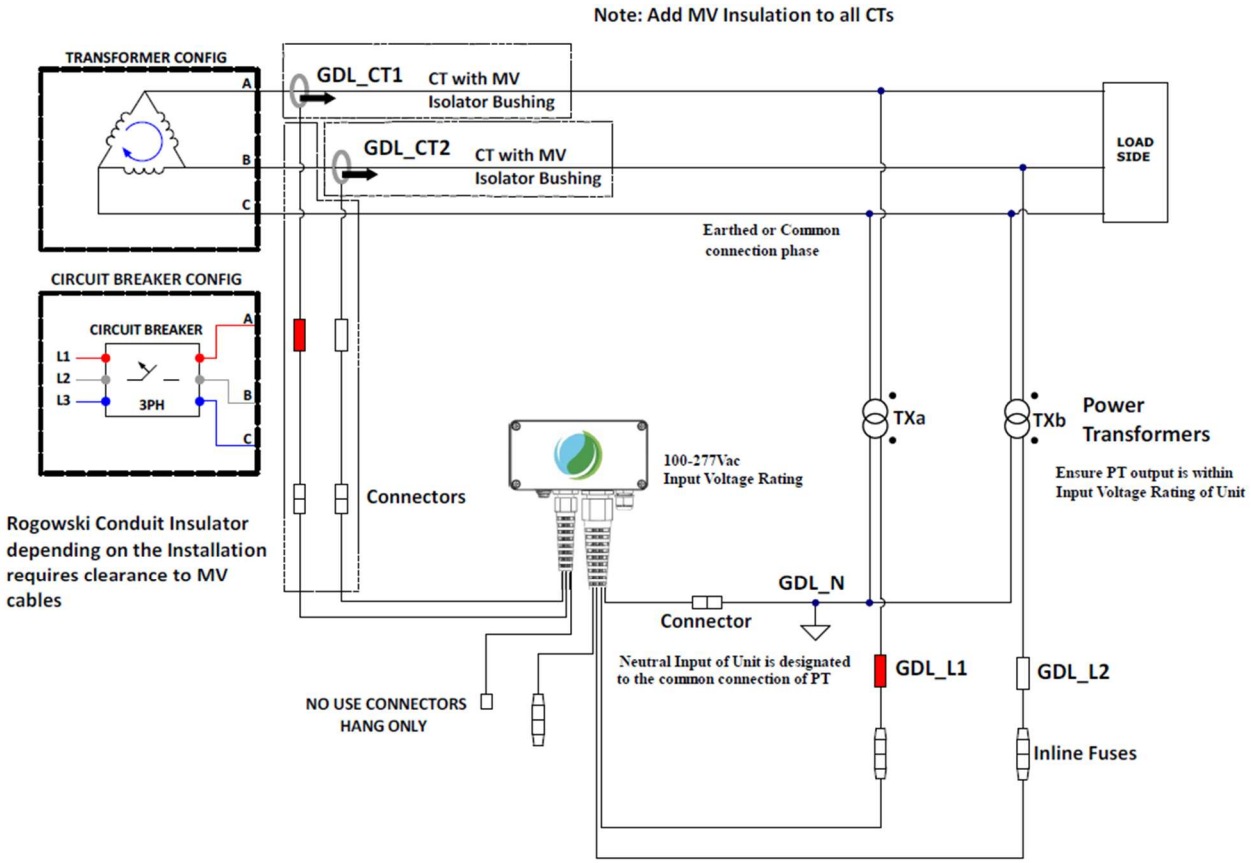
**Fig. 9**

Note:

1. Refer to section IV.8 for the MV CT Isolator Bushing installation.

3. Three Phase (3-Wire, 2PT) Delta Clockwise - Medium Voltage Mains Connection

CoAP command: transformerconfig 4




Three Phase (3-Wire, 2PT) Delta Clockwise - MV

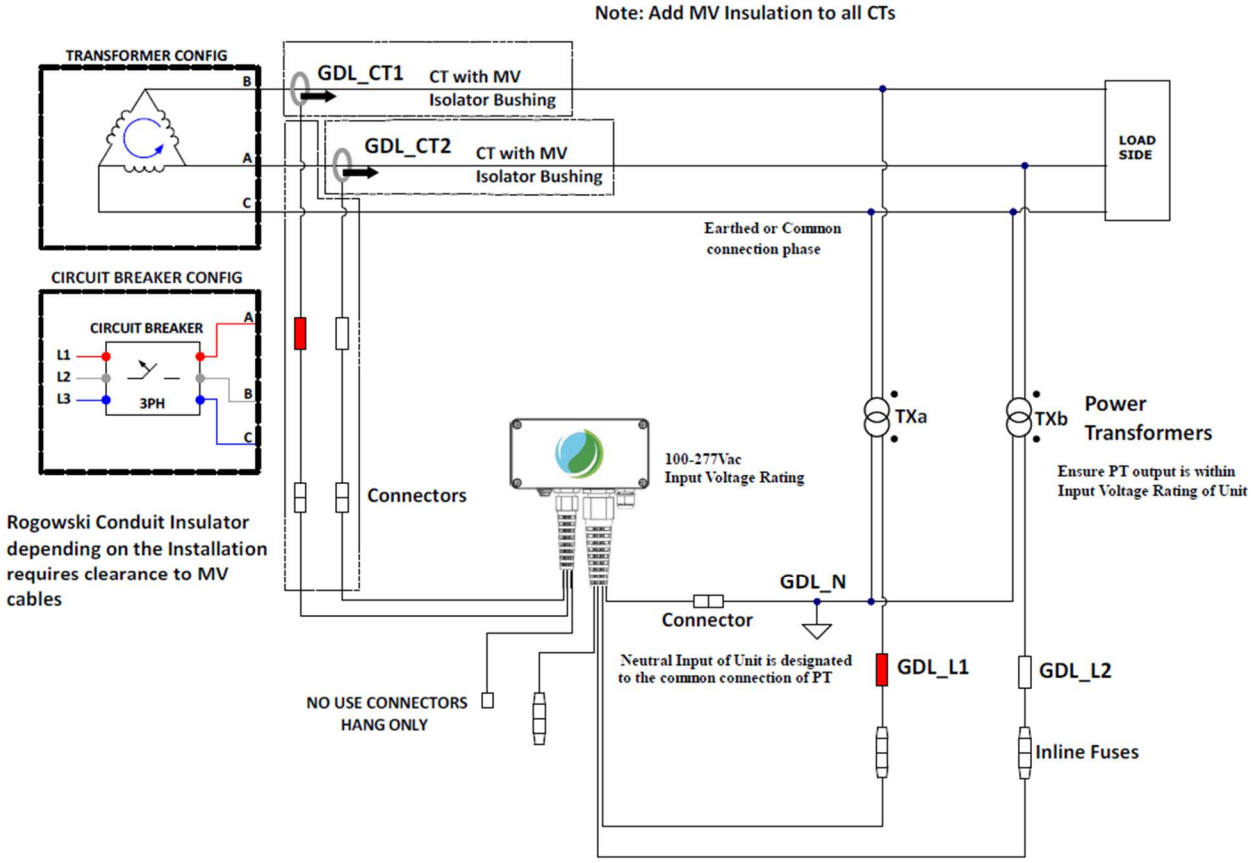
**Fig. 10**

Note:

1. Refer to section IV.8 for the MV CT Isolator Bushing installation.

4. Three Phase (3-Wire, 2PT) Delta Counter-Clockwise - Medium Voltage Mains Connection

CoAP command: transformerconfig 4




Three Phase (3-Wire, 2PT) Delta Counter-Clockwise - MV

**Fig. 11**

Note:

1. Refer to section IV.8 for the MV CT Isolator Bushing installation.

## IV. BOX CONTENTS

### 1. EdgeSensor (600 Series) Unit with Detachable Sensors

- EdgeSensor (600 Series) Detachable..... 1 pc.
- Accessories EdgeSensor (600 Series) Detachable
  - EdgeSensor (600 Series) Accessory: Coreless Current Sensor.....1 pc. (if 1PH)
    .....2 pcs. (if 2PH)
    .....3 pcs. (if 3PH)
  - EdgeSensor (600 Series) Accessory: Voltage Sensor Wire..... 1 set
  - EdgeSensor (600 Series) Accessory: Circular Pole mount belt .....1 set
  - EdgeSensor (600 Series) Accessory: Pad mount (Optional).....1 set
  - Antenna Accessories.....1 set

**EdgeSensor (600 Series) Unit (Pre-installed Accessories) Fig. 4**

**Coreless Current Sensor Fig. 5**

**Voltage Sensor Wire Fig. 6**

**Circular Pole Mount Fig. 7**

**Stobie Pole Mount Fig. 7a**

**Pad mount Fig. 8**

**Antenna Fig. 9**

## V. CAUTION

**IMPORTANT**

Installation and wiring termination of the EdgeSensor (600 Series) shall be performed by a qualified personnel, in compliance with local electrical and safety standards.

EdgeSensor (600 Series) comes with Safety Rated Flexible Rogowski Coils for Current Sensing with proper insulation and UV protection.
Always connect the EdgeSensor (600 Series) Neutral sense wire to the transformer's Neutral line cable first before connecting the Live sense wires.

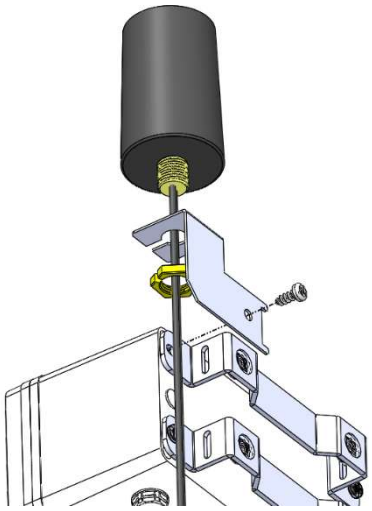
**WARNING**

**Edge Electrons manufacture component parts that can be used in a wide variety of industrial and commercial applications. The selection and application of Edge Electrons products remains the responsibility of the equipment designer or end user. Edge Electrons accepts no responsibility for how its products may be incorporated into final design. Under no circumstance should any Edge Electrons product be incorporated into any product or design as the exclusive or sole safety control, all controls should be designed to dynamically fault detect and fail safely under all circumstances. Any warning provided by Edge Electrons must be passed through to the end user. Edge Electrons offers a warranty only as to the quality of its product to conform to the catalogue specifications. No other warranty is offered. Edge Electrons assumes no liability for any personal injury, property damage, losses or claims arising out of the misapplication and non-performance.**

## VI. INSTALLATION PROCEDURE

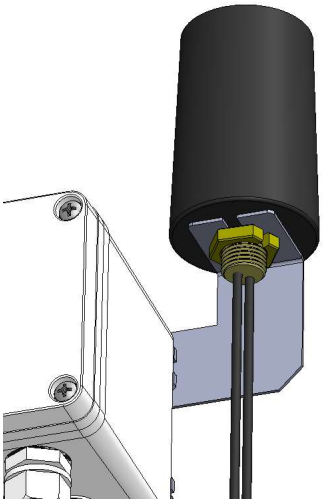
1. Antenna Installation

Step 1



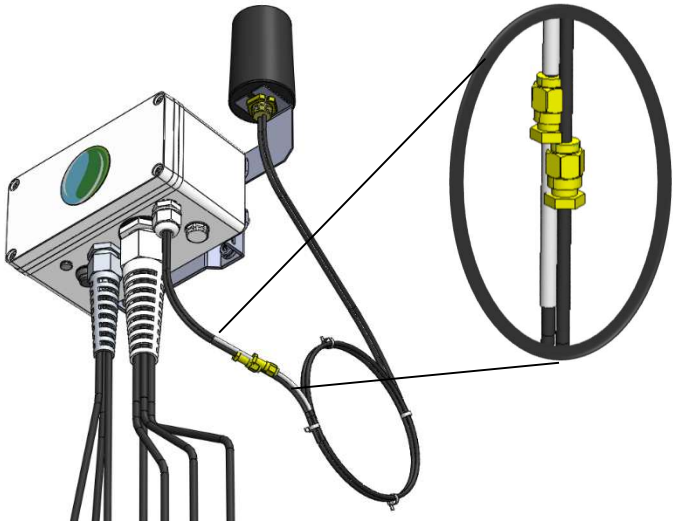
Install the Antenna Bracket Mount (EE-405-FA20) at the back of the unit and fix using the metal screw as shown.

Step 2



Mount the antenna into the metal bracket slot and tighten the nut of the antenna ensuring it is fixed.

Step 3

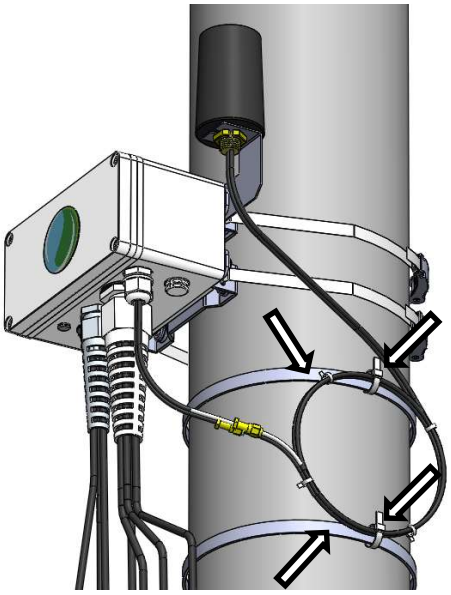


White sleeved wire

Connect the SMA onnector of the white sleeved wire into the corresponing white sleeved antenna wire as shown. Connect the remaining wire into the other SMA connector. Tighten both connector and ensure its fixed.

Route the cable in a loop with cable ties.

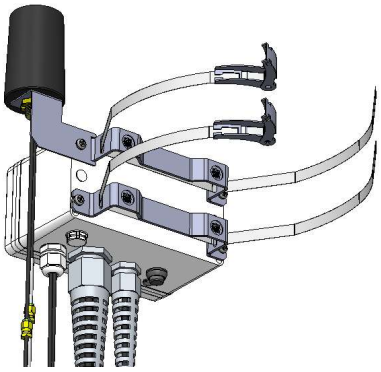
Complete assembled antenna



Fix and secure the cable loop and cable slack using cable ties and belts as shown.

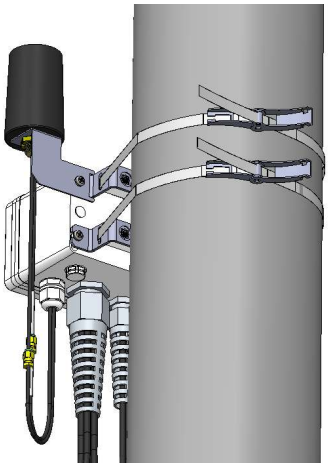
2. Circular Mount Accessory Installation

Step 1



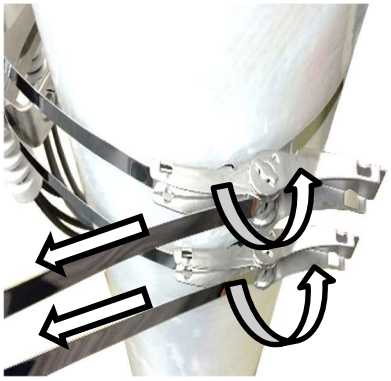
Insert the supplied steel belt (PKB-10S) into the slots of the upper and lower brackets as shown.

Step 2

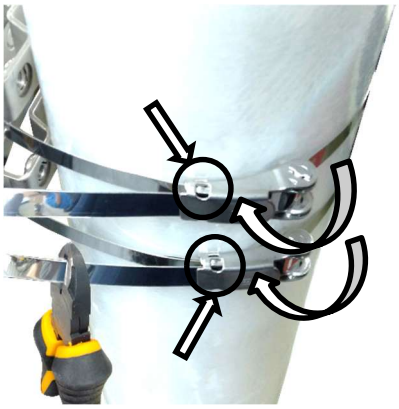


Position the EdgeSensor (600 Series) vertically as shown and wrap the steel belt around the pole.

Step 3

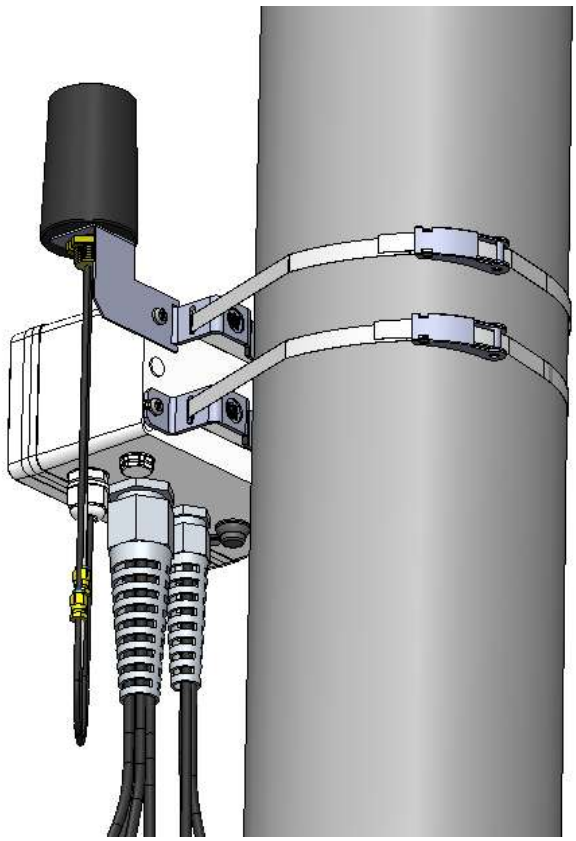


Pull the steel band with tension and cock the ratchet lever all the way back then return the lever to the original position.



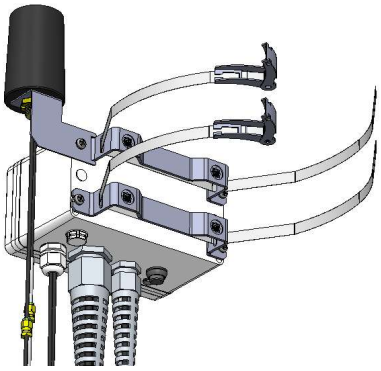
Cut the excess steel band to desired length using cutting tools.

Final Installed EdgeSensor (600 Series) Unit On Circular Pole



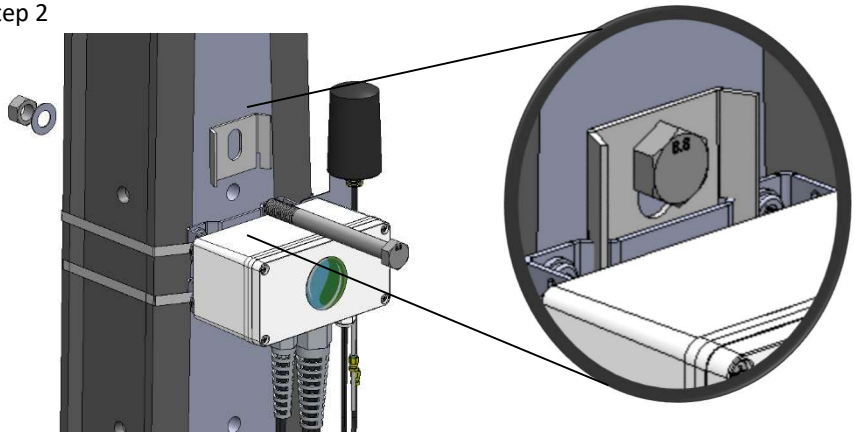
3. Stobie Mount Accessory Installation

Step 1



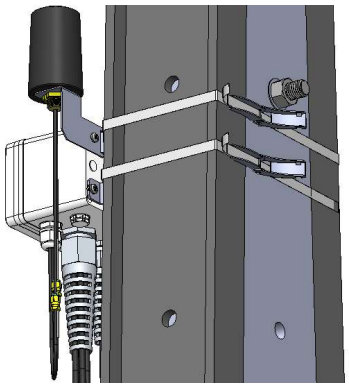
Insert the supplied steel belt (PKB-10S) into the slots of the upper and lower brackets as shown.

Step 2



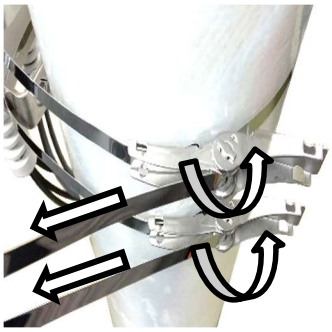
Position and install the Top Hanger Plate (EE-509-0009) and fix using the supplied bolt and nut. Align the EdgeSensor (600 Series) metal bracket metal bracket underneath the Top hanger slot. Tighten the nut after completing Step 4.

Step 3

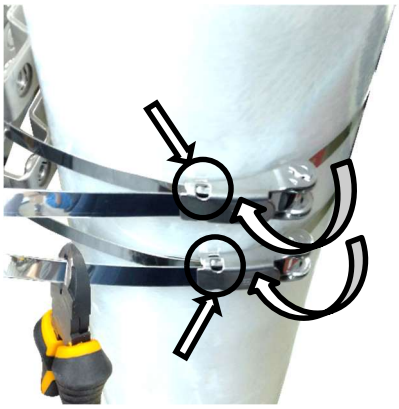


Wrap the steel belt around the Stobie pole as shown.

Step 4

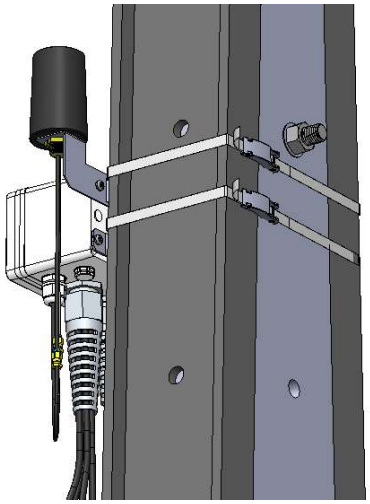


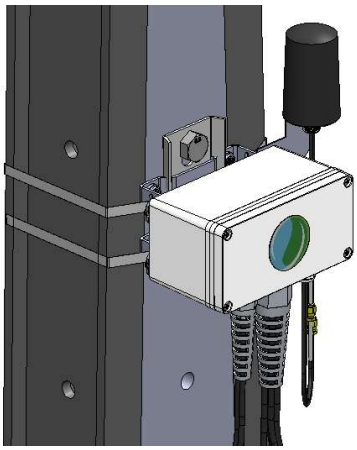
Pull the steel band with tension and cock the ratchet lever all the way back then return the lever to the original position.



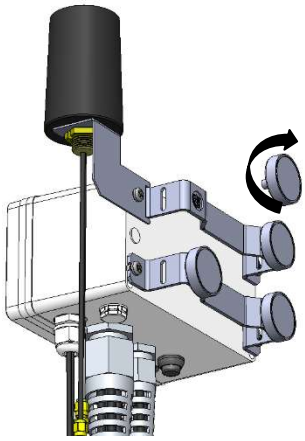
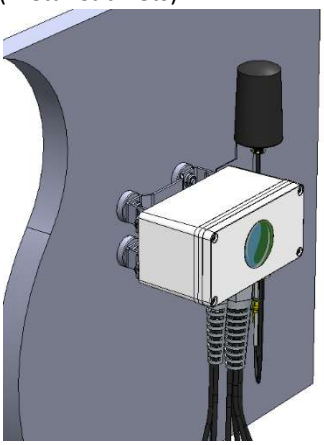
Cut the excess steel band to desired length using cutting tools.

Final Installed EdgeSensor (600 Series) Unit On Circular Pole





4. Pad Mount Accessory Installation

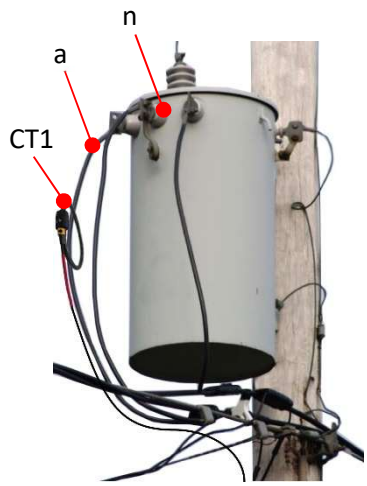
| Step 1 | Step 2 | Step 3 | Final Installed Unit on Pad (Metal Cabinets) |
|---|---|---|---|
|  Install the supplied 4 pcs magnets (EE-508-0006) on the bracket as shown. Screw the magnets clockwise and tightened by hand. |  Attached the EdgeSensor (600 Series) unit into the metal surface starting at the bottom magnet as shown. |  Tilt the top of the EdgeSensor (600 Series) unit carefully into position. |  |

**HANDLE WITH CAUTION**

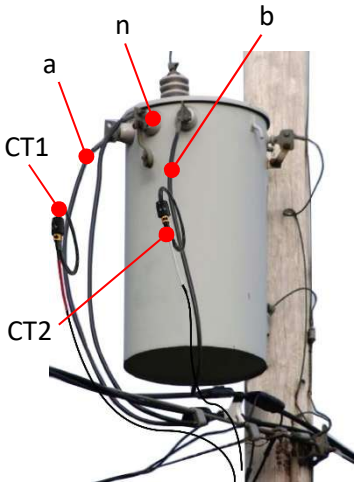
- Always wear gloves when handling magnets to prevent pinching. These are rated at 4kg-force.
- Magnets can be harmful to pacemaker wearers and other with medical implants.
- Keep tools and other metal objects away.
- When dismantling the eSensor with magnet mounting, perform the reverse of the installation with caution.

5. Rogowski CT Installation

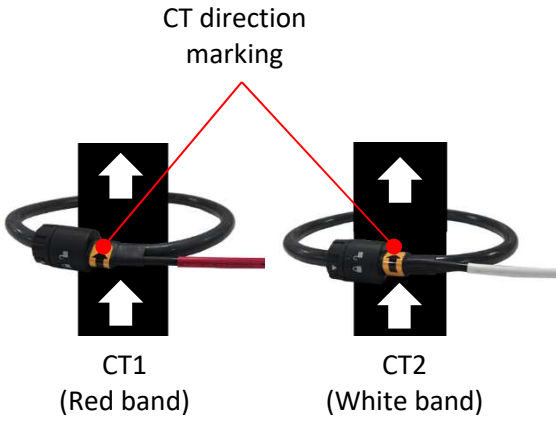
Install the EdgeSensor (600 Series) Rogowski CT's to the transformer's low voltage line and follow the correct CT direction. Refer to the CT's Arrow marking labels for the current direction.
**IMPORTANT:** Wrong installation for the Rogowski current direction shall result to inaccurate measurement of the EdgeSensor (600 Series).




**1 Ph, 2 Wire Configuration**
**Fig.11**

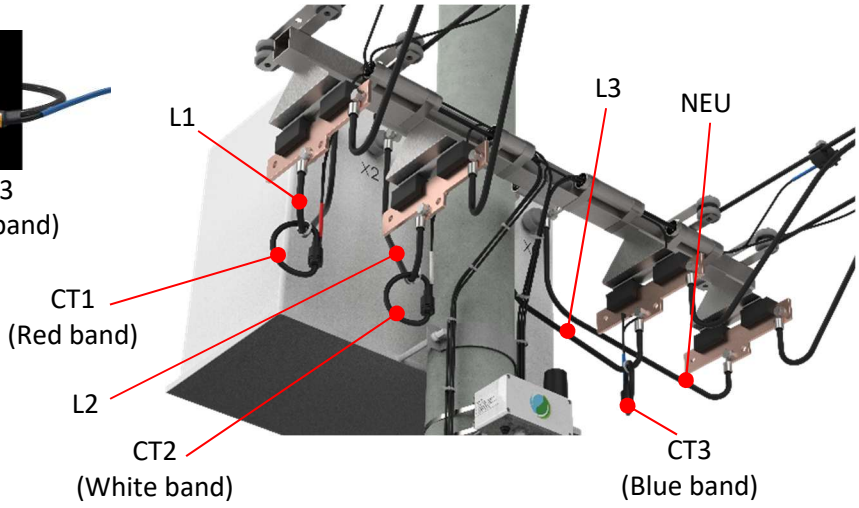



**2Ph, 3 Wire Configuration**
**Fig.12**




**CAUTION:**
For 2Ph, 3Wire Configuration, install the CT1(red band) to L1 and CT2(white band) to L2 of the transformer.

**For 3 Phase, 4 Wire Configuration**
**Fig. 13**

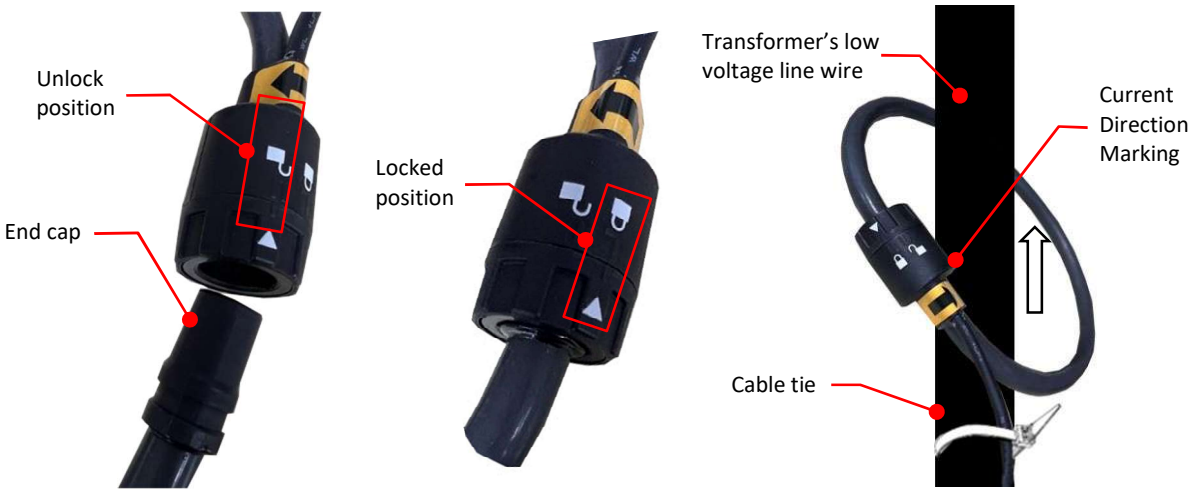




**CAUTION:**
For 3PH, 4 Wire (Neutral) Configuration, install the CT1(red band) to L1 , CT2(white band) to L2 and CT3(blue band) to L3 of the transformer.

6. Rogowski CT Special Installation

**TWIST-LOCKING TYPE**

Fully insert the end cap into the mating socket and twist the lock as shown.

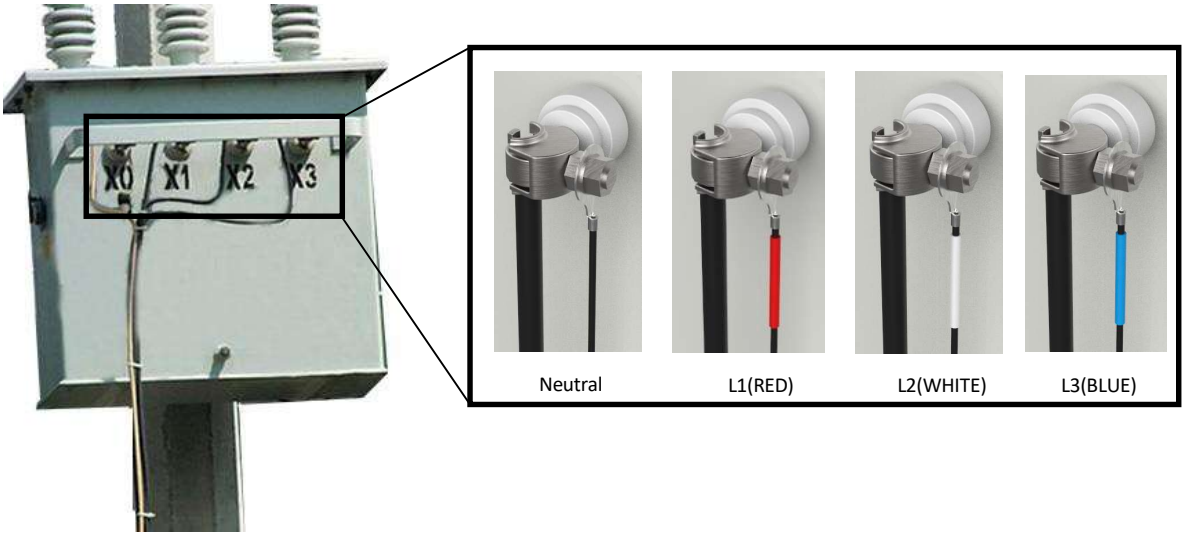


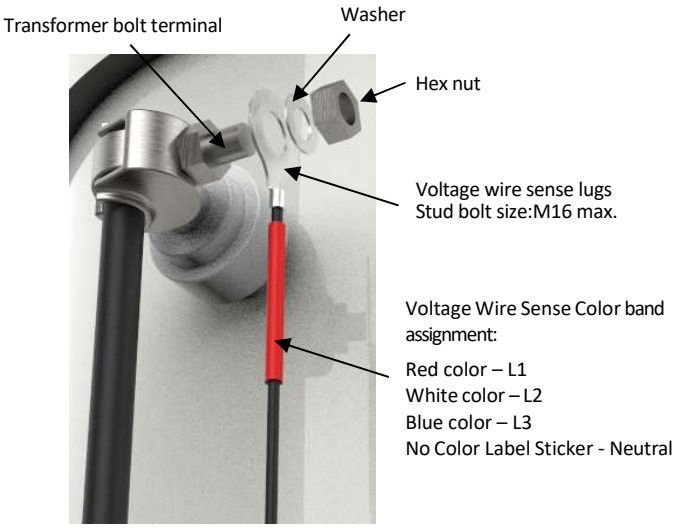
7. Voltage Wire Sense Installation

7.1 If to be installed in live condition, it is important to first connect the Neutral voltage sense wire before connecting L1, L2, and L3 voltage sense wires. Connecting the EdgeSensor (600 Series) voltage sense wires to the transformer can be done in two ways:

7.2 If transformer has terminal block for voltage connections, simply screw the voltage wires of EdgeSensor (600 Series) to transformer's terminal block as shown in Fig. 16 and Fig. 17.

**3-PH TRANSFORMER**
**Fig. 16**




Voltage Wire Sense Final Assembly
**Fig. 17**

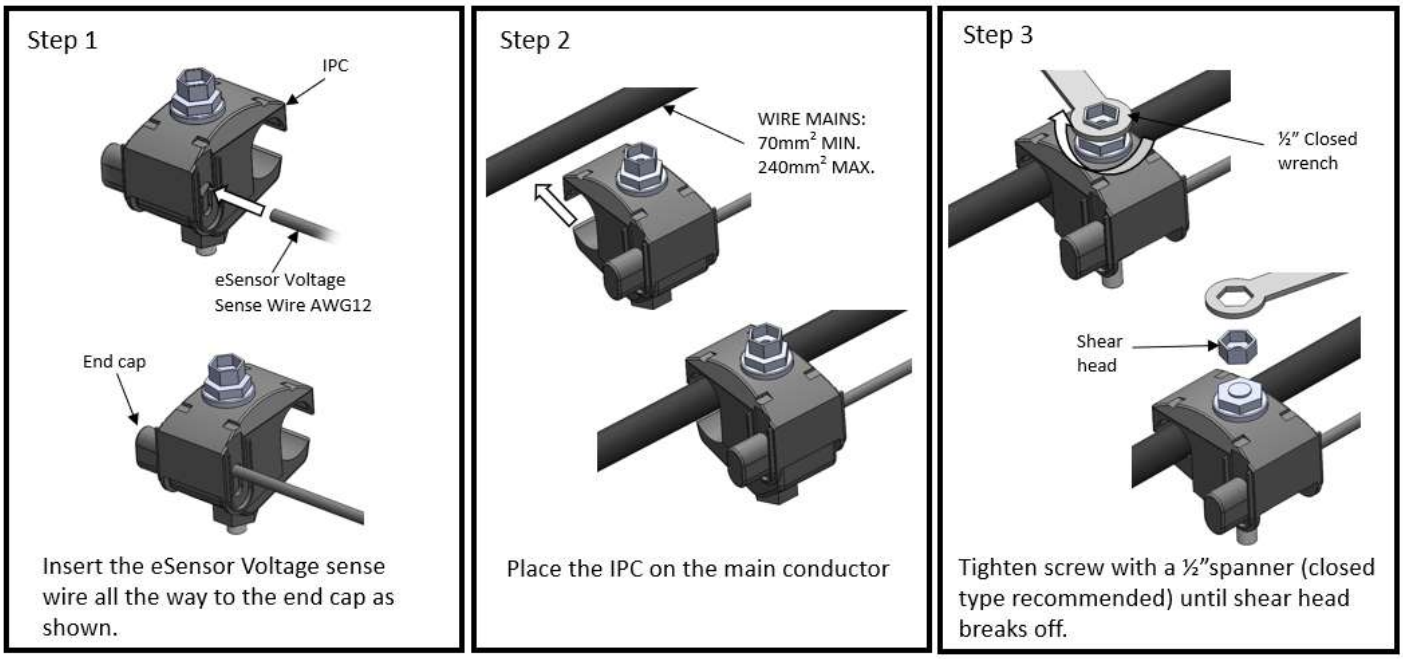
Identify the L1, L2, L3 & Neutral Bolt Terminal of the Transformer. Install the Voltage Wire Sense Lugs in the Transformer Bolt Terminal using washer and Nut or Locknut as shown above. Check the Voltage Wire Sense if there is color label sticker and its color. Follow the terminal assignment as:
L1 - Red color label
L2 - White color label
L3 - Blue color label
Neutral – No color label
Tightening Torque: Max. 248.0 N-m

7.3 If transformer does not have terminal block for voltage connections, voltage wire of EdgeSensor (600 Series) can be directly connected to the transformer's voltage wires via the IPC accessory provided.

7.4 Cut the terminal lug of the EdgeSensor (600 Series) voltage wires as shown in Fig. 18.


**Fig. 18**

7.5 Fig. 19 shows how the EdgeSensor (600 Series) Voltage Wire and Transformer Voltage Wire would be clamped together using the IPC accessory.




**Insulation Piercing Installation**
**Fig.19**

7.6 Fig. 20 shows typical installation of EdgeSensor (600 Series) Voltage Wires using IPC.

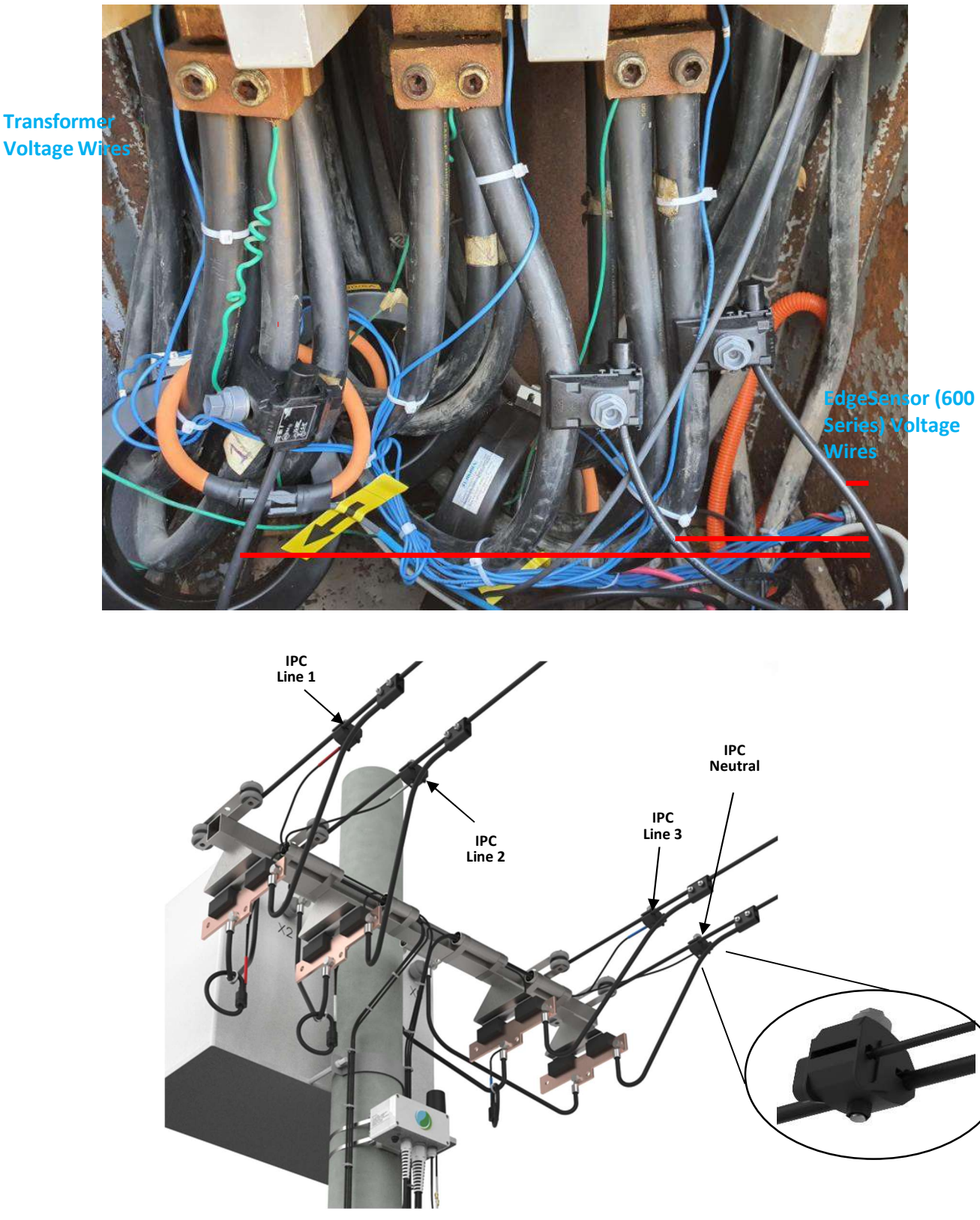



**Fig. 20**

8. Medium Voltage Current Transformer Isolator Bushing Installation

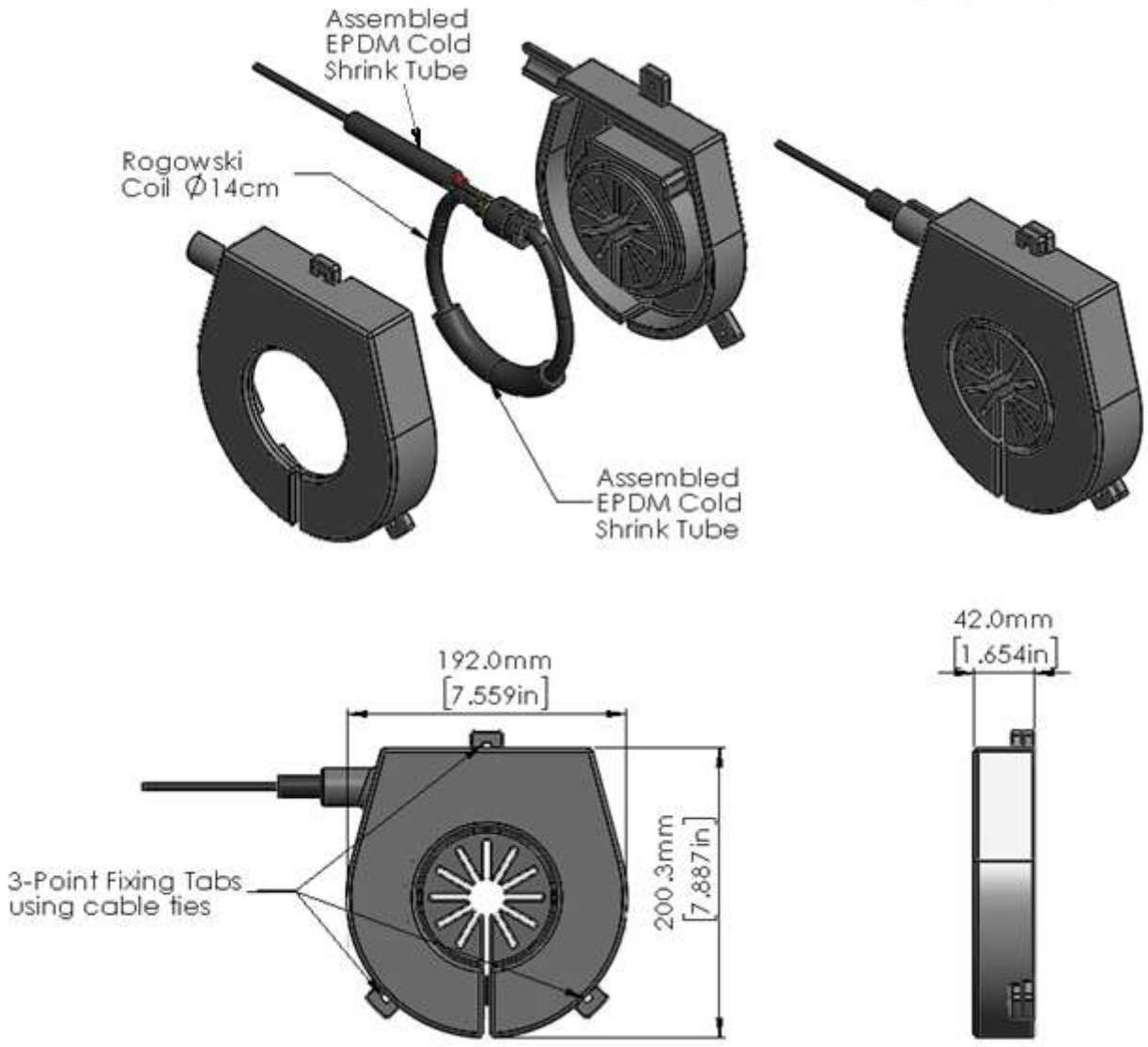
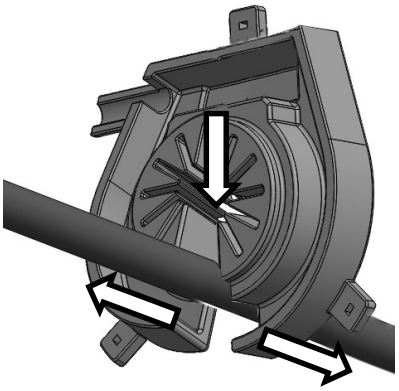
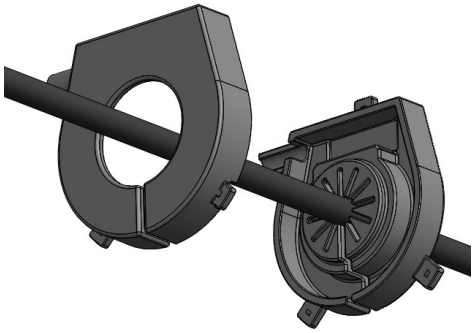
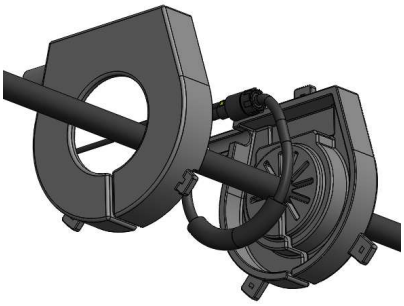
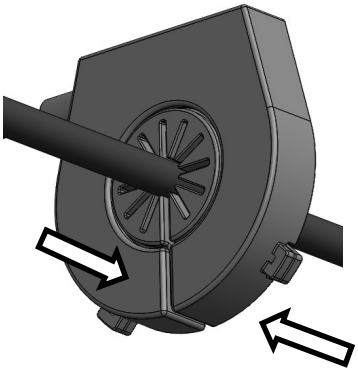
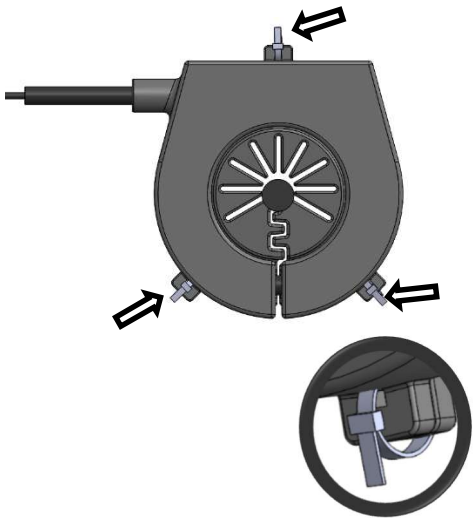


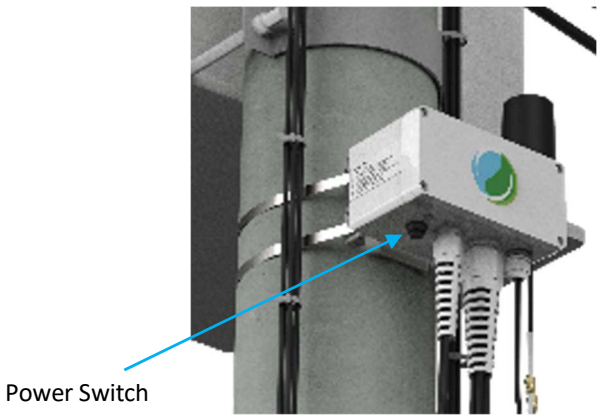

**Figure: Outline Dimension with Rogowski Coil**

## INSTALLATION

| | | |
|---|---|---|
| **Step 1**<br>Install the cold shrink tube in the middle section of the Rogowski coil as shown.<br>  <br>Cold shrink tube | **Step 2**<br>Stretch the slit sideways to install the bushing base on the wire.<br>  | **Step 3**<br>Perform the same procedure for the bushing cover.<br>  |
| **Step 4**<br>Install the Rogowski in between the two bushings as shown.<br>  | **Step 5**<br>Close both the bushing together to enclose the Rogowski as shown.<br>  | **Step 6**<br>Secure the bushing with the supplied cable ties.<br>  |

## VII. POWER-ON PROCEDURE

After completing the installation, press the power push button located on the underside of the enclosure to turn the unit ON. When pressed, the LED indicator will illuminate, indicating that the unit is energized and operational.




## VIII. COMMISSIONING

Please use Edge Zero installer application to commission the unit.

EdgeZero
Edge Electrons Pty Ltd