

# EDGE-35R

## Hardware Install Guide

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# Section 01

## Introduction

## 1.1 Introduction

The EDGE-35 is a compact Ultra High Frequency (UHF) RFID reader that offers high-performance tag reading. The reader has a range of features and functionalities that are ideal for vehicle identification, including:

- Ethernet TCP/IP communication for seamless connectivity.
- Isolated serial interface, Wiegand/Clock-and-Data (Abatrack II) or RS-232.
- Outdoor installation.
- Easy configuration through the user-friendly HTML page interface.
- Integrated antenna with 7,5 dBi gain eliminates the need for RF cables.
- Powered via Power over Ethernet (PoE) via POE Switch or POE injector.
- Compact size that does not compromise the aesthetic appeal of the installation site.
- Easy to use, has automatic tag reading, does not require software development using API/SDK.

## 1.2 Products covered by this document

| Model                   | Code               |
|-------------------------|--------------------|
| EDGE-35R TCP/IP         | Please contact us. |
| EDGE-35R TCP/IP WIFI    | Please contact us  |
| INTERFACE BOARD EDGE-35 | 100.699            |

## 1.3 Approval notes

### 1.3.1 Anatel (Brazil)

EDGE-35 was tested and approved under the Regulation for Certification and Homologation of telecommunications Products, approved by Anatel Resolution No. 242 of November 30, 2000.

- **Types:** Radio Frequency Identification Systems - Category II.
- **Service/Application:** Restricted Radiation Radiocommunication.

### 1.3.2 FCC (USA)

Federal Communication Commission Interference Statement (FCC):

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.

NOTE: 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 operating in commercial environment. This equipment generates, uses, and can radiate radiofrequency 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 transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. |
| MPE Warning: | 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.                 |

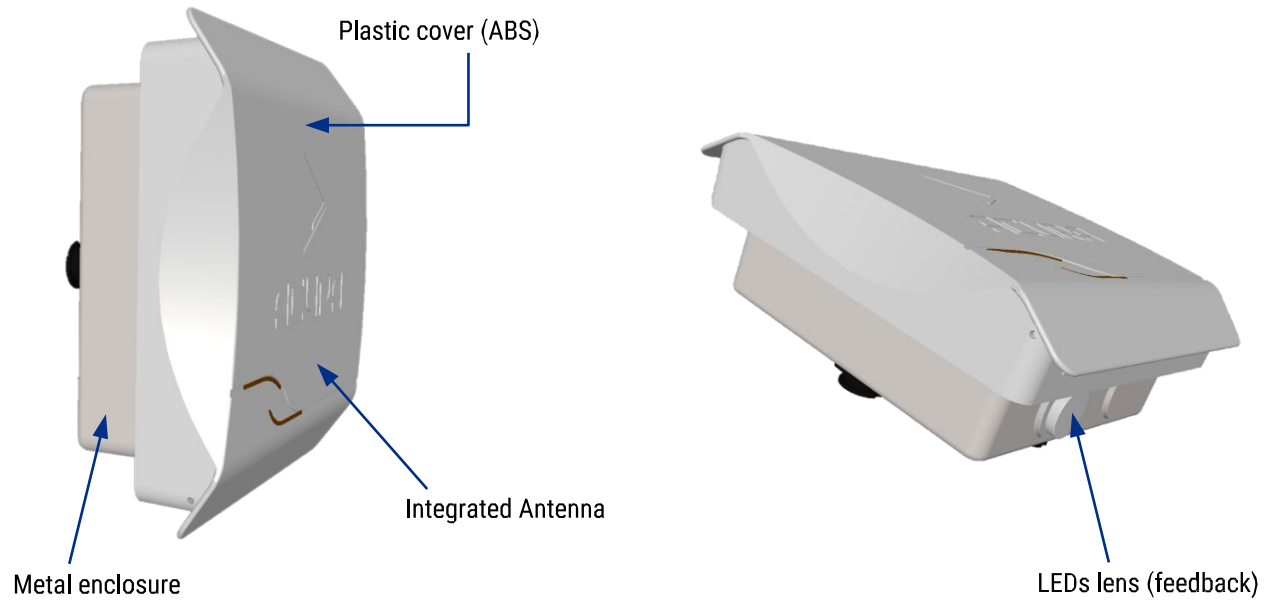
### 1.3.3 Authorized antenna

|                       |                                         |
|-----------------------|-----------------------------------------|
| Vendor                | Acura                                   |
| Model                 | Far Field PCB 150122 (Embedded antenna) |
| Frequency Range (MHz) | 902-928 MHz                             |
| Antenna Gain (dBi)    | 6 dBi                                   |
| Polarization          | Circular (RHCP)                         |
| Type                  | Patch                                   |

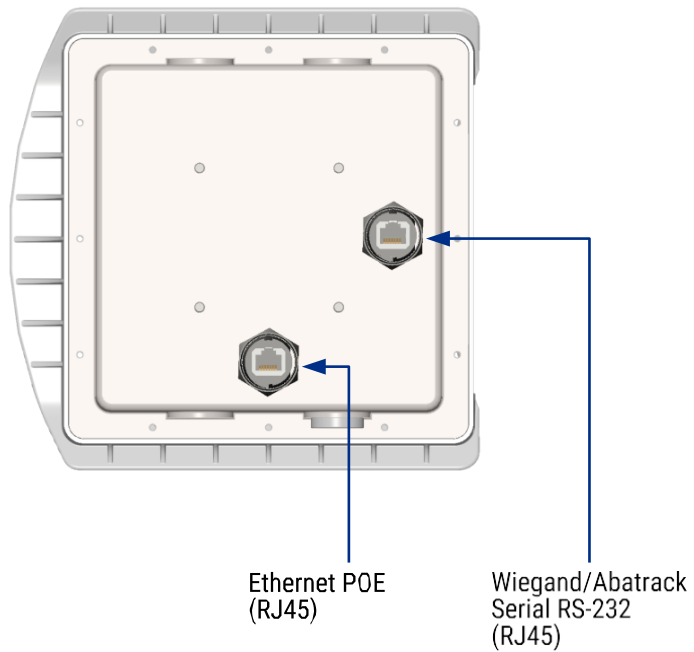
# Section 02 Specifications

## 2.1 EDGE-35 unit

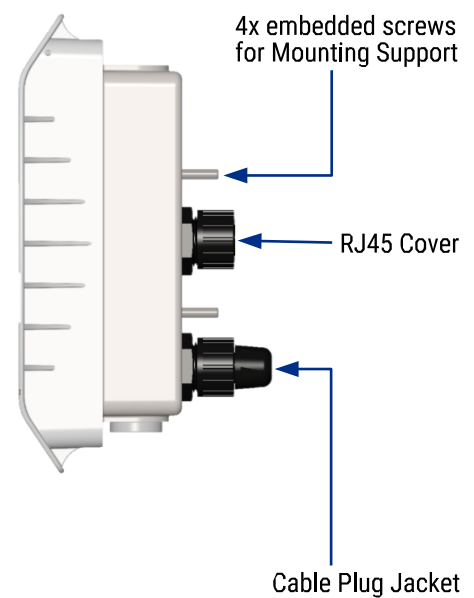
### Perspective view



### Rear view

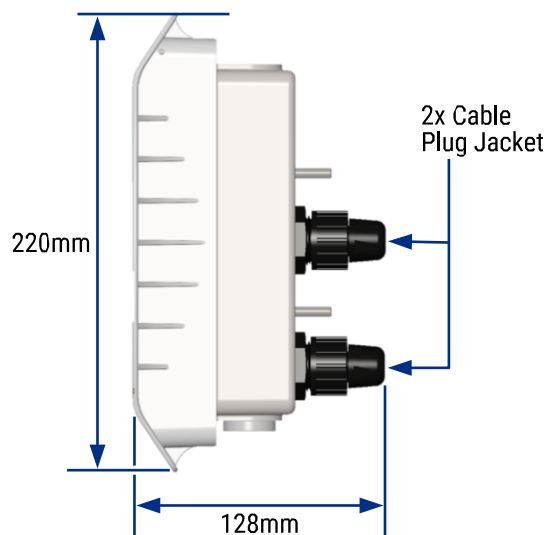


### Side view

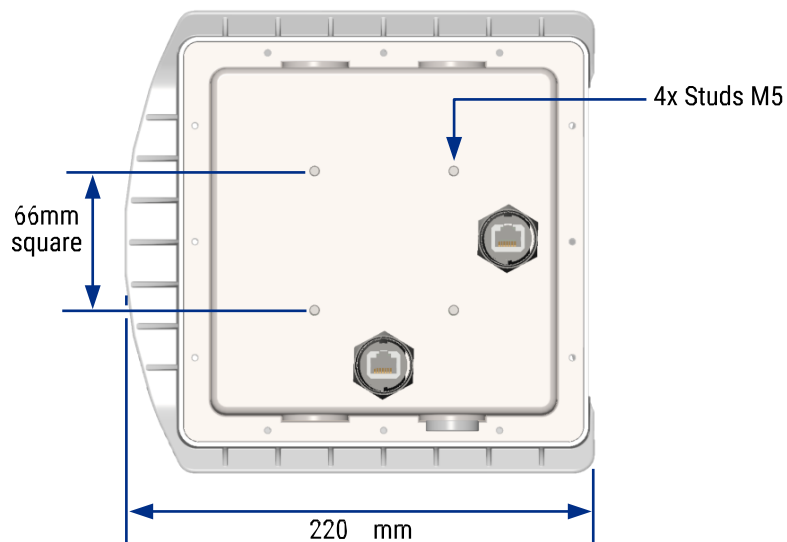


## 2.1.1 Dimensions

Side view



Rear view



## 2.1.2 Specification (EDGE-35)

| Transponder Protocol                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protocol                                                                                                 | ISO 18000-6C (EPC Gen2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Interface RF                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| RF Output power                                                                                          | From 0 to 30 dBm with 0.5 dBm increment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Regulation                                                                                               | ANATEL (Brazil) 902 – 907MHz and 915 – 928MHz<br>FCC (USA) 902 – 928MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Mode                                                                                                     | Frequency Hopping                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Modulation/RF Coding                                                                                     | PR-ASK / Miller4 (M4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Backscatter Link Frequency (BLF)                                                                         | 250KHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Performance                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Reading distance (the reading distance can vary depending on the tag model, usage mode, and environment) | 6 meters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Data/Control Interface                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                        | <p>POE connector:</p> <ul style="list-style-type: none"> <li>• Ethernet 10/100 Mbps (1.5KV RMS insulation)</li> <li>• POE (IEEE 802.3af standard)</li> <li>• POE modes supported: <ul style="list-style-type: none"> <li>- Mode A (mixed DC &amp; data)</li> <li>- Mode B (DC on spares)</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                             |
|                       | <p>SIG connector:</p> <ul style="list-style-type: none"> <li>• 1x Optically isolated Digital Input: <ul style="list-style-type: none"> <li>- 1KV RMS insulation.</li> <li>- Supports Dry Contact, NPN (Sinking), and PNP circuit (Sourcing). Minimum pulse width: 100ms.</li> <li>- High Level (3.0 to 24.0 VDC), Low Level (0 to 2.0 VDC).</li> </ul> </li> <li>• 1x optically isolated Digital Output: <ul style="list-style-type: none"> <li>- 1KV RMS insulation.</li> <li>- Controlled by tag reading or/and ASCII commands.</li> <li>- High Level (5.0 VDC), Low Level (0 VDC)</li> </ul> </li> </ul> |
| Programming                                                                                              | Does not require software development using API/SDK. With a simple Socket connection, the tag read results can be processed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Energy

|             |                                                                                                              |
|-------------|--------------------------------------------------------------------------------------------------------------|
| Power       | IEEE 802.3af Powered Device (PD)<br>PD Power Class: Class 3, 12.95W<br>Operating PoE Voltage: 37VDC to 57VDC |
| Consumption | Max. 15W. With maximum power and high duty cycle                                                             |

## Physical characteristics

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| IP rating             | IP65 (RJ45 ingress protection cover and cable plug jacket included)                                      |
| Integrated antenna    | Patch circular polarized antenna with 7.5 dBic of gain (RHCP)                                            |
| Dimensions            | 220 x 220 x 128 mm (HxWxD) with Cable Plug Jacket                                                        |
| Weight                | 1.4Kg (3.08lb)                                                                                           |
| Operation temperature | -10°C to 65°C (14°F to 149°F)                                                                            |
| Storage temperature   | -10°C to 70°C (14°F to 158°F)                                                                            |
| Humidity              | 95%                                                                                                      |
| Mounting type         | With mounting support on the back side for poles (Ø 1" to 1.75" and 1.75" to 3") or flat surfaces (wall) |

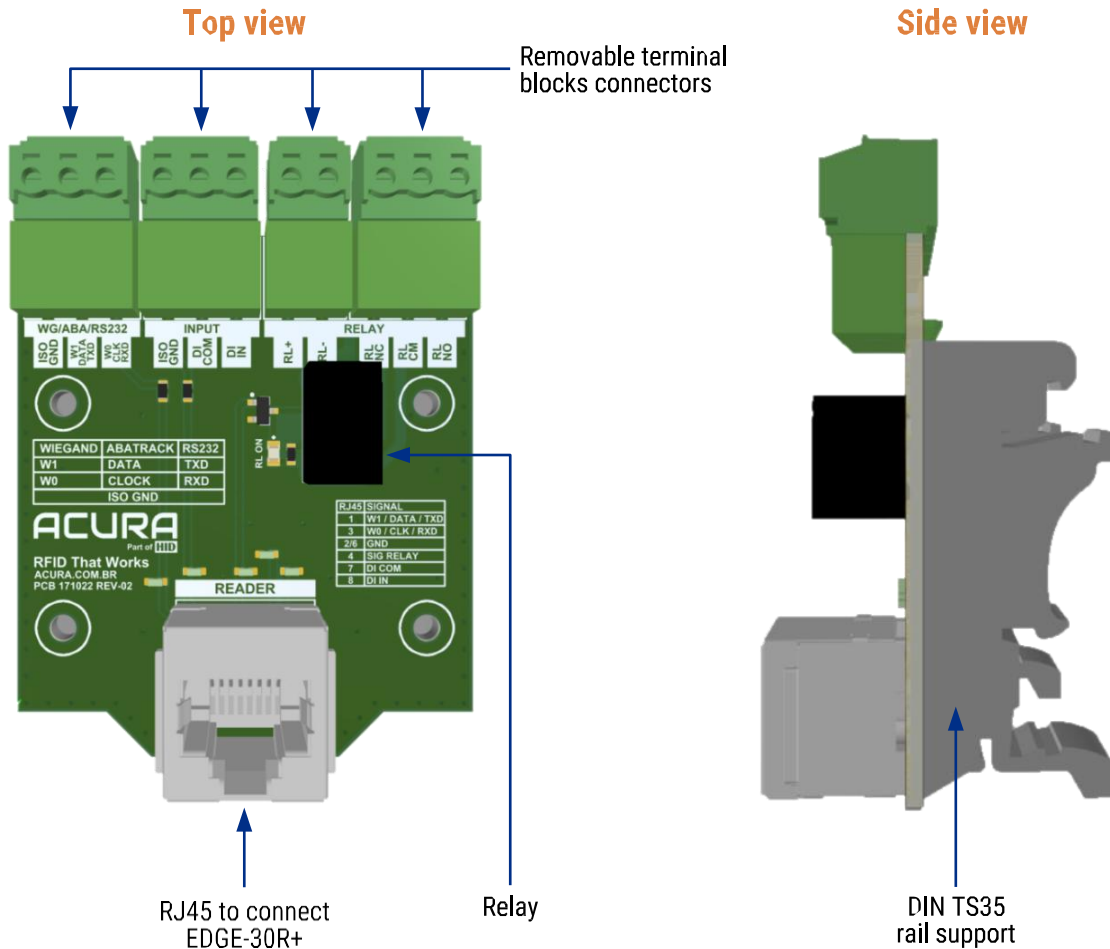
## Integrated antenna

|                            |                 |
|----------------------------|-----------------|
| Frequency range            | 902 - 928MHz    |
| Gain                       | 6 dBi           |
| VSWR                       | 1.3:1 (max.)    |
| -3dB Beamwidth (Elevation) | 66° ±4°         |
| -3dB Beamwidth (Azimuth)   | 62° ±2°         |
| Polarization               | Circular (RHCP) |

## 2.2 Hardware interface board

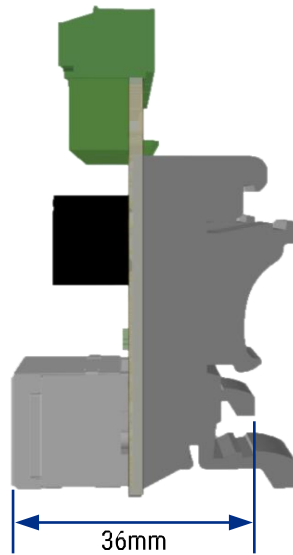
The hardware interface board is a passive printed circuit board design to help the interconnection between the EDGE-30R+ and other devices, for example: Access Control Controllers, Sensors, and Gate Controllers.

The board was designed to be compact, occupying a minimum of panel space, and has removable terminal blocks installed for wire connections and an RJ45 for EDGE-35 connection.

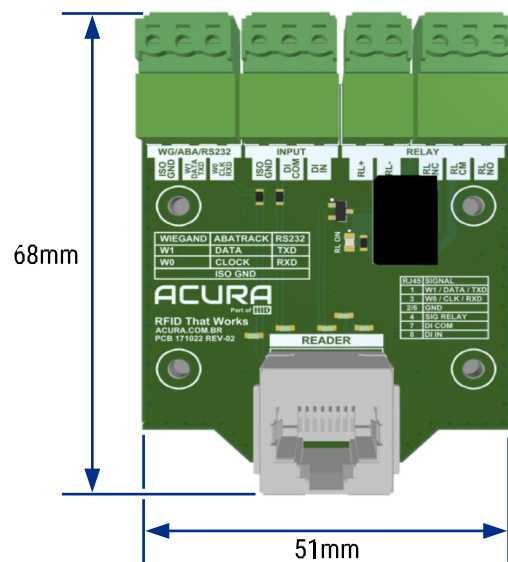


### 2.2.1 Dimensions

### Side view



### Rear view



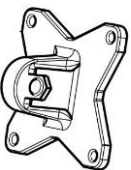
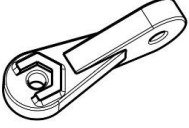
## 2.2.2 Specification (hardware interface board)

| Physical characteristics |                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------|
| IP rating                | Internal use only                                                                 |
| Connectors               | Removable Terminal Block Plug for wires 16-30 AWG                                 |
| Relay                    | Coil: 24VDC, 10mA<br>Contact rating: 1 A, 30 VDC at 40°C / 0.3 A, 110 VDC at 40°C |
| Dimensions               | 68 x 51 x 36 mm (HxWxD) with Terminal Block Plug connected                        |
| Weight                   | 38g (0.084lb)                                                                     |
| Operation temperature    | -10°C to 65°C (14°F to 149°F)                                                     |
| Storage temperature      | -10°C to 70°C (14°F to 158°F)                                                     |
| Humidity                 | 95%                                                                               |
| Mounting type            | Compatible with DIN TS35 rail (35x7.5mm)                                          |

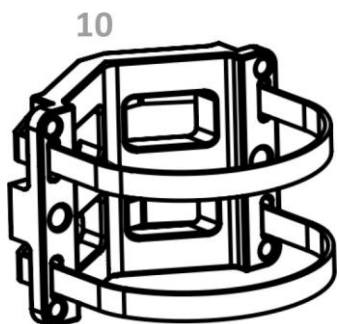
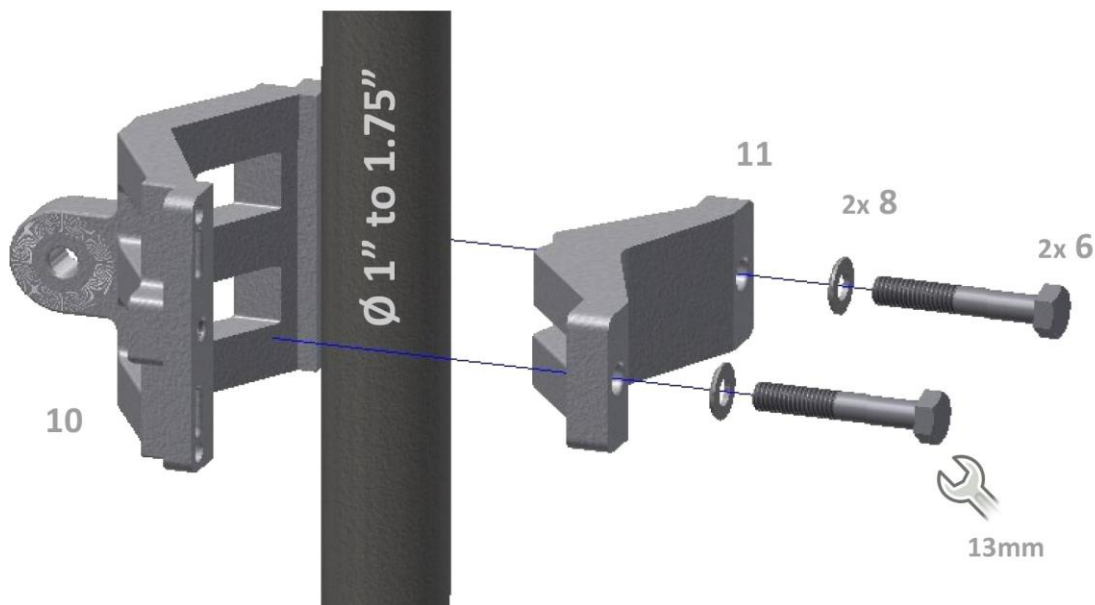
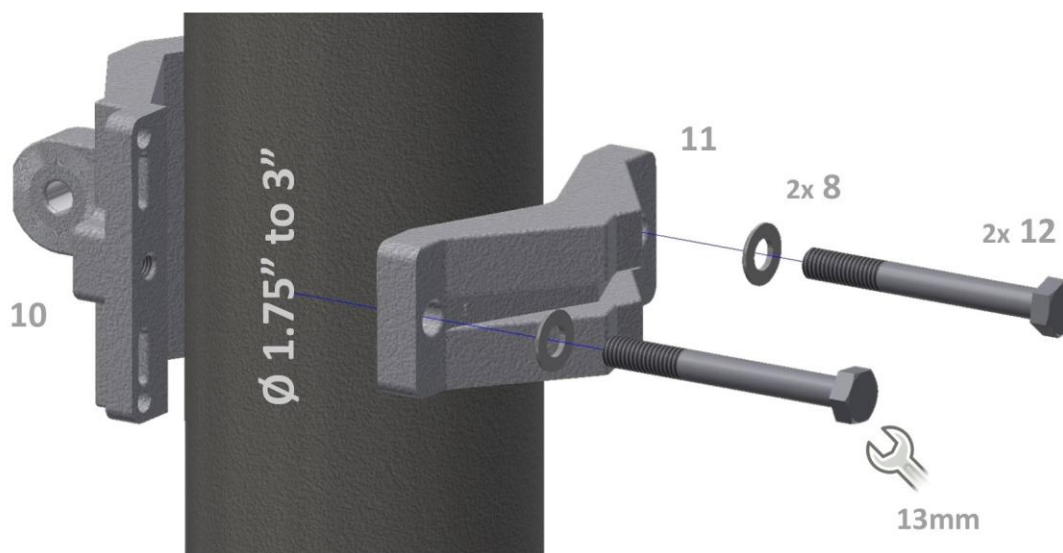
# Section 03

## Installation

## 3.1 Mounting kit components

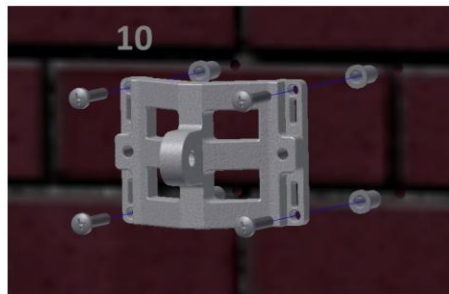
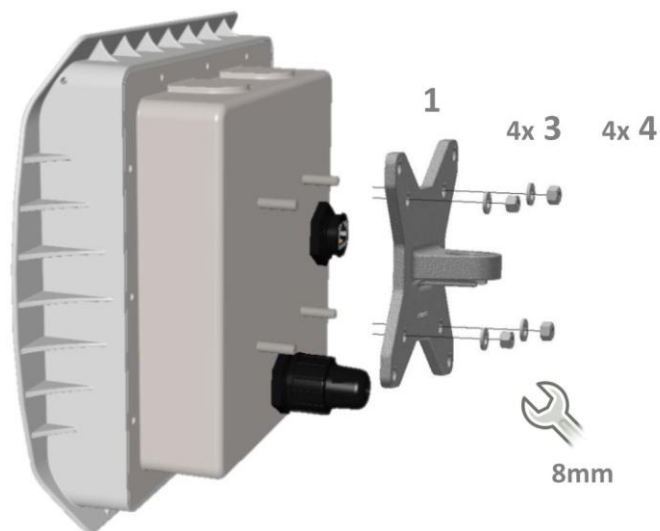
| Component number       | Quantity | Component image                                                                       |
|------------------------|----------|---------------------------------------------------------------------------------------|
| 1. Reader base bracket | 1        |    |
| 2. Flat washer M5      | 4        |    |
| 3. Spring washer M5    | 4        |    |
| 4. Nut M5              | 4        |    |
| 5. Bracket arm         | 1        |    |
| 6. Bolt M8x40          | 4        |    |
| 7. Flat washer M8      | 4        |  |
| 8. Spring washer M8    | 4        |  |
| 9. Nut M8              | 2        |  |
| 10. Pole/wall bracket  | 1        |  |
| 11. Clamping bracket   | 1        |  |
| 12. Bolt M8x70         | 2        |  |
| 13. Screw M5x16        | 4        |  |

### 3.1.1 Mounting kit assembly



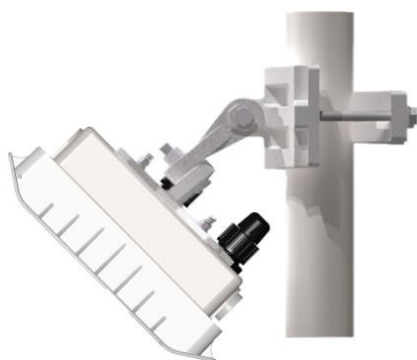
**Note:** If fastening the pole/wall bracket to a pole or tube with a diameter exceeding 3", it is recommended that two appropriately sized screw hose clamps (not supplied) are used. Items 11, 6, 8 and 7 are not required if mounting the pole/wall bracket using this method.

### 3.1.2 Mounting the EDGE-35



### 3.1.3 Mounting kit operational angles

#### Side view



Maximum vertical  
angle +/- 50°



#### Top view



Maximum horizontal  
angle +/- 60°



### 3.1.4 Unused connector cover

**Important: A cover must be installed on all RJ45 ports to protect against the ingress of water, dust, and debris. If any ports are left exposed to the elements with no cover installed, your product warranty will be void.**

The unused connector cover must be installed to protect unused ports from the ingress of water, dust, and debris.

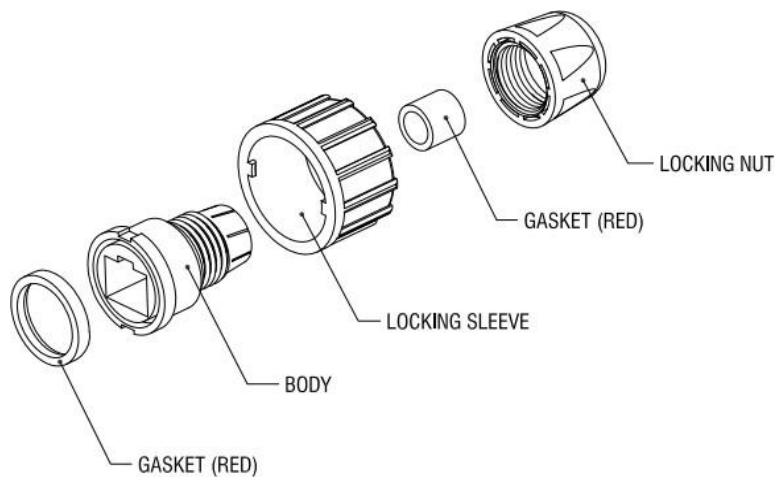


### 3.1.5 RJ45 Cable plug jacket

The RJ45 cable plug jacket must be used when installing RJ45 cables.

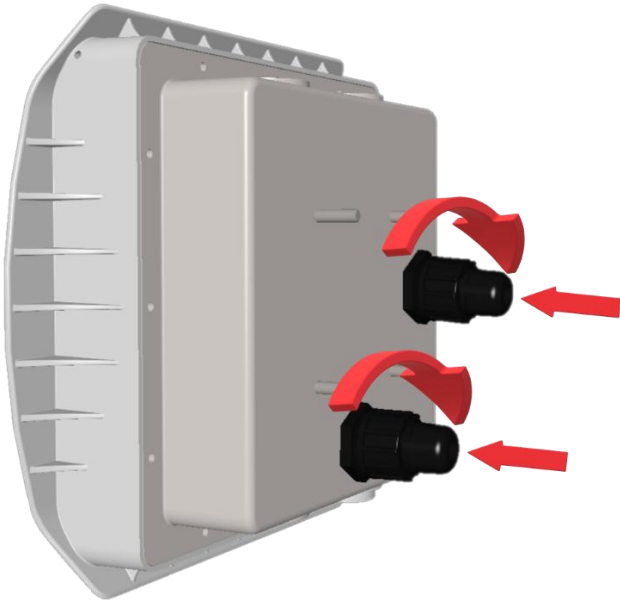
The jacket protects the units port, and installed cable from the ingress of water, dust, and debris.

#### Assembly



### Installing the RJ45 cable plug jacket

- Ensure the RJ45 connector release tab is in the correct orientation before inserting it into the port.
- Insert the RJ45 cable into the port, ensuring it is fully pressed in.
- Rotate the plug jackets locking sleeve half a turn, to fully lock the sleeve into place.
- Tighten the locking nut.

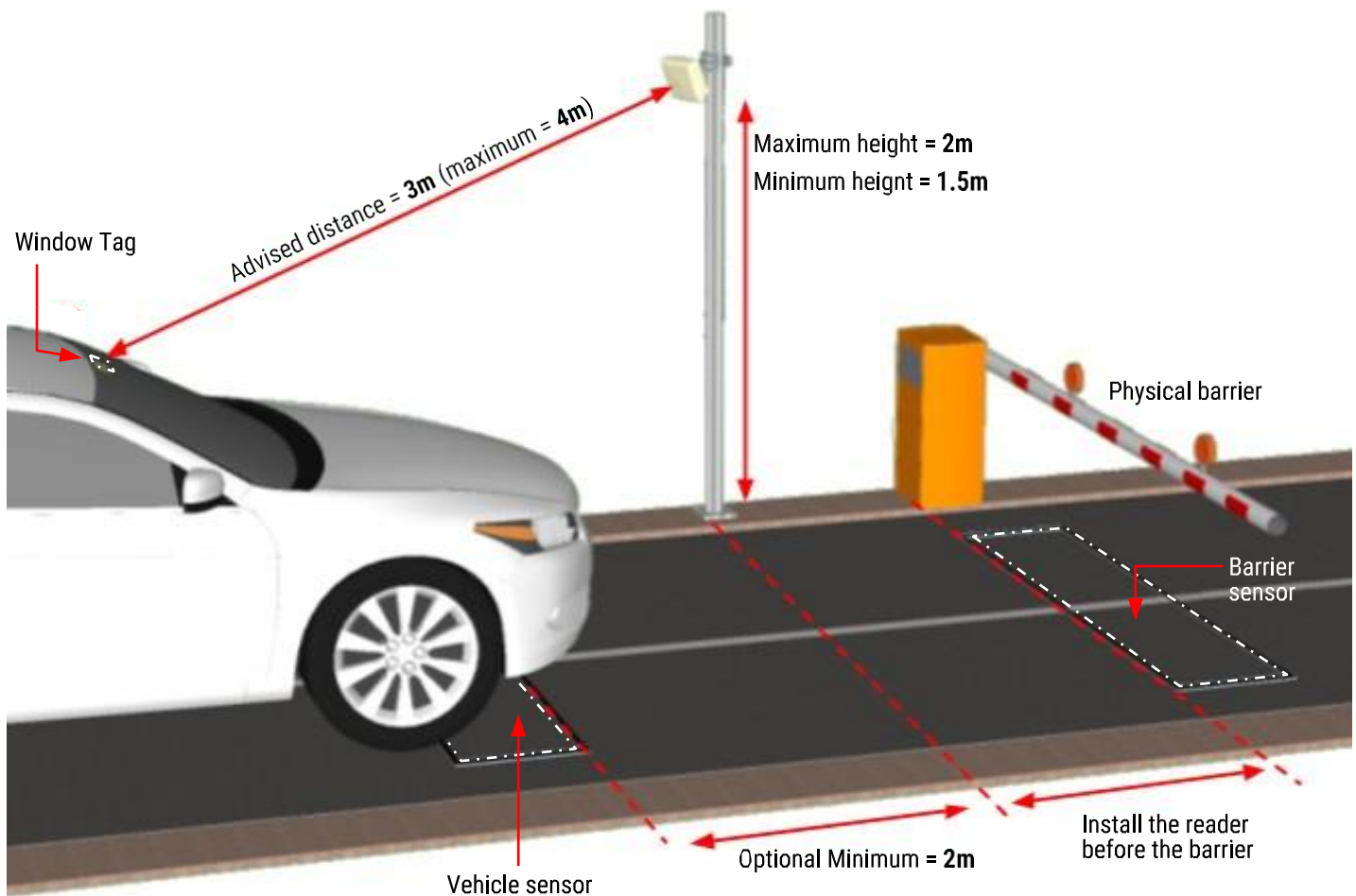


## 3.2 EDGE-35 recommended installation positions

**Note:** To achieve the optimum reading performance of a passive UHF tag installed on a vehicles windshield, the following specified measurements should be implemented.

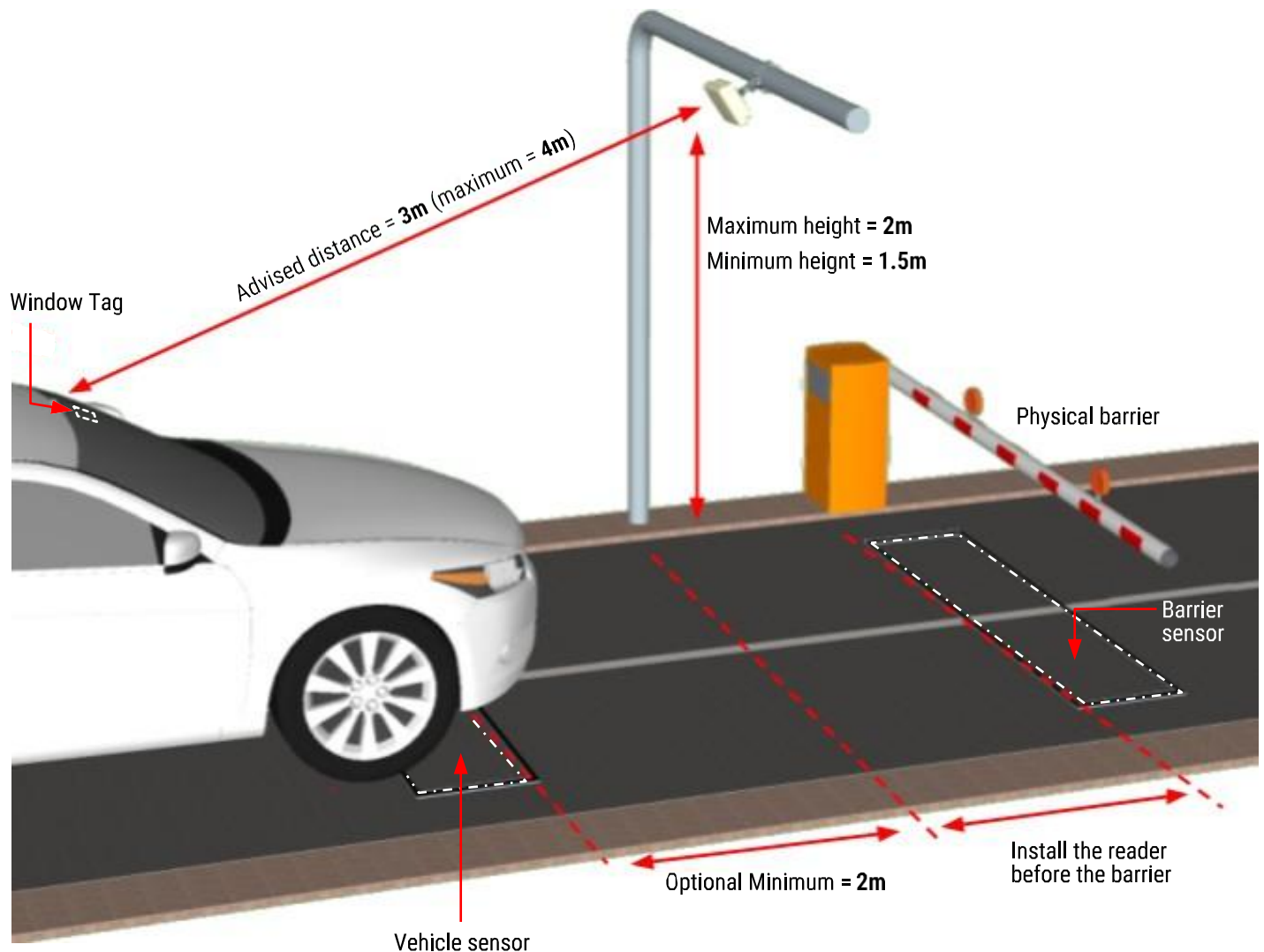
### 3.2.1 EDGE-35 located at the side of the lane

The angle of the reader will depend on the installation height. The front side of the reader should be pointed to where the tag will be at the ideal reading distance of 3m, as shown. You can measure 3m from the center of the installed reader to an average height of 1.5m from the floor where the tags will be, the reader should be pointed to this location, where the tag should be.



### 3.2.2 EDGE-35 located in the center of the lane

The angle of the reader will depend on the installation height. The front side of the reader should be pointed to where the tag will be at the ideal reading distance of 3m, as shown. You can measure 3m from the center of the installed reader to an average height of 1.5m from the floor where the tags will be, the reader should be pointed to this location, where the tag should be.



### 3.3 Troubleshooting - tag reading

When there is a multi-lane highway that require tags to be read in each lane, tag readings may inadvertently be taken from vehicles in other lanes.

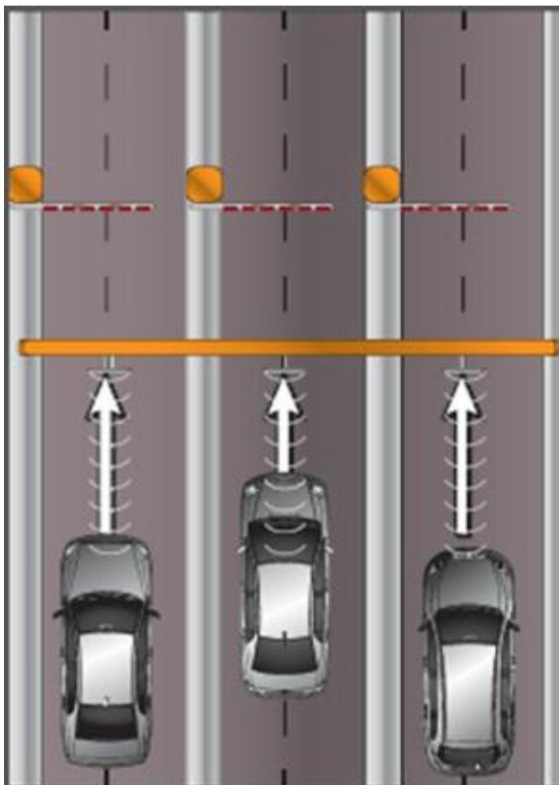
To minimize the occurrence of unwanted tag reads as much as possible, the following may be performed:

1. Filter unwanted side/adjacent readings, by using the **Filter by tag signal level** RSSI parameter.
2. Adjusting the reading power combined with the **RSSI** filter. In many cases the reading power can be decreased without compromise tag reading on the correct lane or position.
3. Adjusting the installation angle of the reader.

**Note:** All tag reading tests must be performed with the tag correctly installed in the vehicle, for example, on the windshield or headlight lens.

**Important:** Tags developed for windshields should not be tested outside a windshield. If they are, the test results will be different from the final application results.

#### Examples of multi-lane installations



### 3.4 Reader operation - visual feedback

Located on the bottom side of the reader case, there is an operating status lens containing a green and red LED.

The LED lens will display one of four different status messages, using either the green or red LED:

#### Green LED illumination status message

|                                                                                   |                                                                                                                             |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
|  | LED is illuminated solid green:<br>Indicates tag reading                                                                    |
|                                                                                   | LED is illuminated green and flashing at a consistent interval:<br>Indicates continuous reading mode.                       |
|                                                                                   | LED is solid green, gives one flash, then repeats sequence (solid, flash, solid, flash):<br>Indicates trigger reading mode. |

#### Red LED illumination status message

|                                                                                   |                                                                                               |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|  | LED is illuminated red and flashing at a consistent interval:<br>Indicates an internal error. |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|

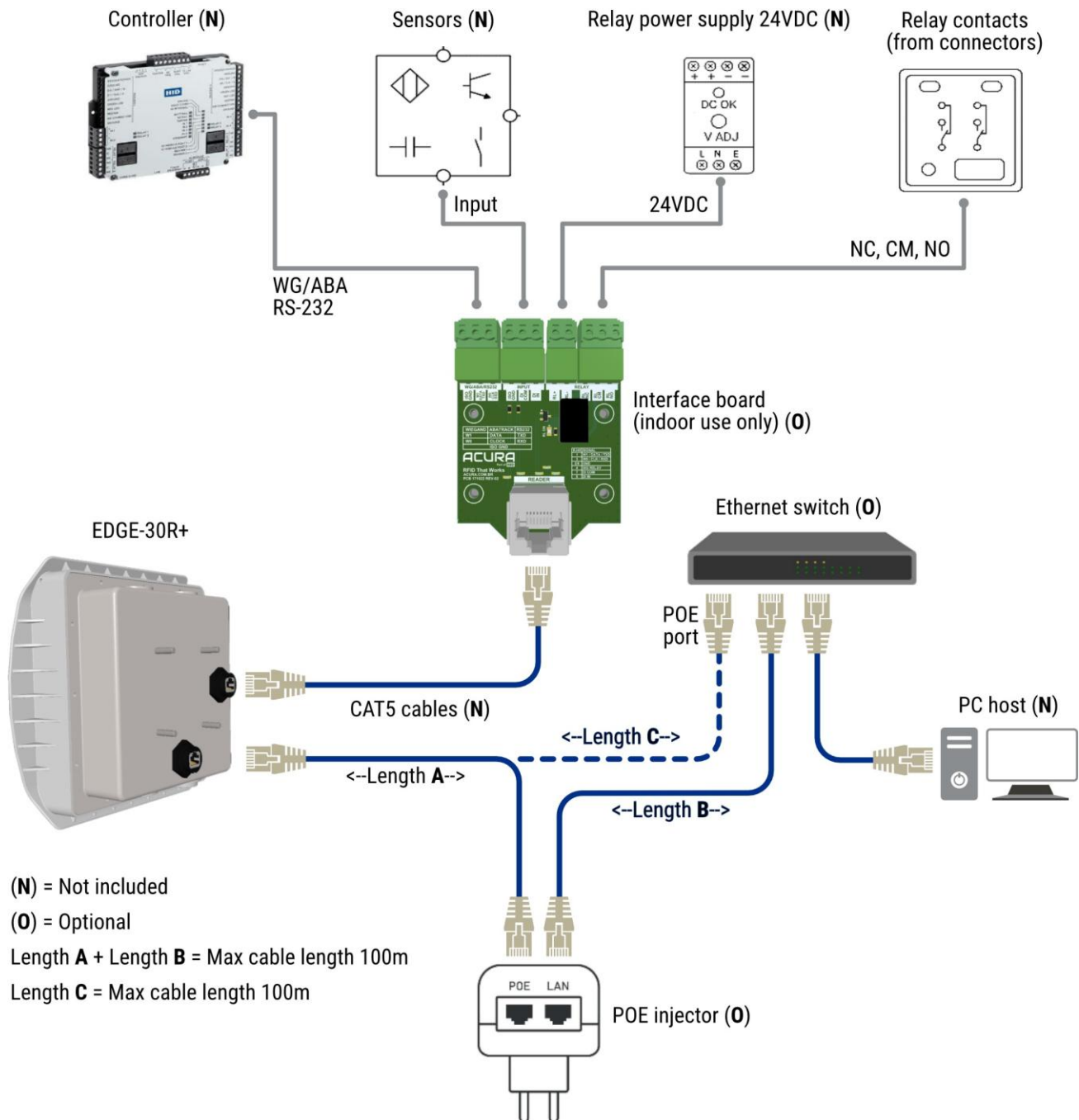
## 3.5 Installation check list

- ☐ Check the Ethernet cable pinout, both sides, according to the chosen standard, and the RJ45 crimp quality, as in **Port pinout** section.
- ☐ If using the Serial interface (Wiegand/Clock-and-Data or RS-232) check the electrical connections between reader and your Controller board [W0 <-> W0, W1 <-> W1, TXD <-> RX, RXD <-> TX...] and so on.
- ☐ Check if all Cable Plug Jacket or RJ45 Cover are well connected and locked, as in **RJ45 Cable plug jacket** section.
- ☐ Check on the back of the Cable Plug Jacket if the locking nut is fastened.
- ☐ Take note or a photo of the side label of the reader that contains the MAC address and serial number.
- ☐ Make sure all screws are tight, following the **Mounting kit assembly** section.

# Section 04 Electrical

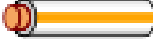
## 4.1 Connection diagram

**Note:** The POE Injector can be replaced by an Ethernet Switch with POE port supporting IEE 802.3af standard.  
The 24VDC power supply is only required if the Relay will be used.



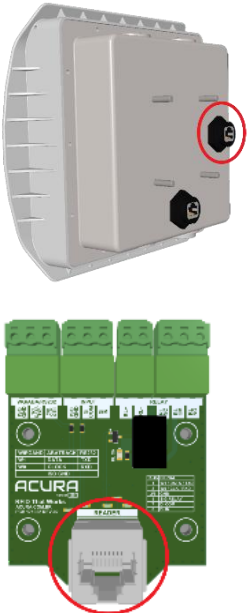
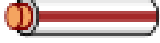
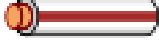
## 4.2 Port pinout

### 4.2.1 POE port pinout

| POE port                                                                          | Pins  | T568A color                                                                                               | T568B color                                                                                                | 10/100 mode<br>B DC on<br>spares |     | 10/100 mode A<br>mixed DC and<br>data |     |
|-----------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------|-----|---------------------------------------|-----|
|  | Pin 1 | <br>White/green stripe   | <br>White/orange stripe  | RX+                              |     | RX+                                   | DC+ |
|                                                                                   | Pin 2 | <br>Green solid          | <br>Orange solid         | RX-                              |     | RX-                                   | DC+ |
|                                                                                   | Pin 3 | <br>White/orange stripe  | <br>White/green stripe   | TX+                              |     | TX+                                   | DC- |
|                                                                                   | Pin 4 | <br>Blue solid           | <br>Blue solid           |                                  | DC+ | Unused                                |     |
|                                                                                   | Pin 5 | <br>White/blue stripe    | <br>White/blue stripe    |                                  | DC+ | Unused                                |     |
|                                                                                   | Pin 6 | <br>Orange solid        | <br>Green solid         | TX-                              |     | TX-                                   | DC- |
|                                                                                   | Pin 7 | <br>White/brown stripe | <br>White/brown stripe |                                  | DC- | Unused                                |     |
|                                                                                   | Pin 8 | <br>Brown solid        | <br>Brown solid        |                                  | DC- | Unused                                |     |

**Note:** All pins are electrically isolated. Either T568A or T568B standard can be used.

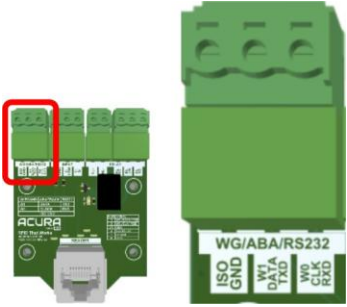
## 4.2.2 SIG port pinout

| SIG port                                                                          | Pins  | T568A color                                                                                              | T568B color                                                                                               | Wiegand       | Abatrack | RS-232 |
|-----------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------|----------|--------|
|  | Pin 1 | <br>White/green stripe  | <br>White/orange stripe | W1            | DATA     | TXD    |
|                                                                                   | Pin 2 | <br>Green solid         | <br>Orange solid        | ISO GND       |          |        |
|                                                                                   | Pin 3 | <br>White/orange stripe | <br>White/green stripe  | W0            | CLK      | RXD    |
|                                                                                   | Pin 4 | <br>Blue solid          | <br>Blue solid          | DIG OUT RELAY |          |        |
|                                                                                   | Pin 5 | <br>White/blue stripe   | <br>White/blue stripe   | Not used      |          |        |
|                                                                                   | Pin 6 | <br>Orange solid        | <br>Green solid         | ISO GND       |          |        |
|                                                                                   | Pin 7 | <br>White/brown stripe | <br>White/brown stripe | DI COM        |          |        |
|                                                                                   | Pin 8 | <br>Brown solid       | <br>Brown solid       | DI IN         |          |        |

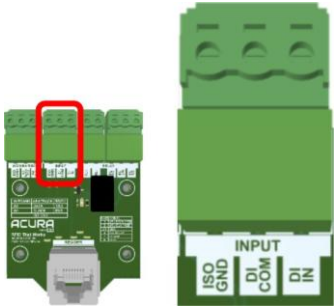
**Note:** All pins are electrically isolated. Either T568A or T568B standard can be used.

## 4.3 Interface board connections

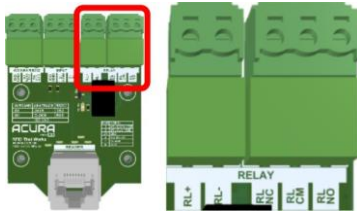
### 4.3.1 Wiegand/Abatrack/RS-232

| Interface board                                                                   | WIEGAND pins                                                                                                                                                                                                                                | Clock-and-Data pins | RS-232 pins  |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------|
|  | W1 (output)                                                                                                                                                                                                                                 | DATA (output)       | TXD (output) |
|                                                                                   | W0 (output)                                                                                                                                                                                                                                 | CLOCK (output)      | RXD (input)  |
|                                                                                   | ISO GND (reference)                                                                                                                                                                                                                         |                     |              |
|                                                                                   | To avoid noise coupling that may compromise the communication integrity between the reader and the Controller/PC, avoid passing the cable near power supply, lamp reactors, electrical power cables or other electromagnetic noise sources. |                     |              |
|                                                                                   | Maximum cable length 15m.                                                                                                                                                                                                                   |                     |              |

### 4.3.2 Digital input (sensors)

| Interface board                                                                    | Dry Contact output sensor                      | NPN output sensor | PNP output sensor |
|------------------------------------------------------------------------------------|------------------------------------------------|-------------------|-------------------|
|  | ISO GND                                        | DI COM            | DI COM            |
|                                                                                    | DI IN                                          | DI IN             | DI IN             |
|                                                                                    | Minimum pulse width: 100ms.                    |                   |                   |
|                                                                                    | High Level (+3.0 to +24.0VDC)                  |                   |                   |
|                                                                                    | Low Level (0 to +2.0VDC)                       |                   |                   |
|                                                                                    | Maximum voltage in NPN and PNP is +24VDC       |                   |                   |
|                                                                                    | The input signal debouncing is fixed in 500ms. |                   |                   |
|                                                                                    | Maximum recommended cable length 30m.          |                   |                   |

### 4.3.3 Output (Relay)

| Interface board                                                                     | Pins                                                                    | Description                               |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------|
|  | RL+                                                                     | Positive from external 24VDC power supply |
|                                                                                     | RL-                                                                     | GND from external 24VDC power supply      |
|                                                                                     | RL NC                                                                   | Relay Normally Closed pin                 |
|                                                                                     | RL CM                                                                   | Relay Common pin                          |
|                                                                                     | RL NO                                                                   | Relay Normally Open pin                   |
|                                                                                     | To use the on-board relay, an external +24VDC power supply is required. |                                           |
| Maximum recommended cable length 30m.                                               |                                                                         |                                           |

## Revision history

| Date         | Description                                         | Revision |
|--------------|-----------------------------------------------------|----------|
| October 2025 | Minor updates to specifications.                    | A.2      |
| October 2025 | Document renamed to EDGE-35 Hardware Install Guide. | A.1      |
| October 2025 | Initial release.                                    | A.0      |



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