

RELAY NODE

| Communication repeater for SENSIT sensors



KEY FEATURES:

- Fast communication network
- Self-healing network
- Easy mounting onto a pole
- No wiring required

The Relay node allows for communication increase and ensures a robust and reliable communication network. It ensures fast transmission of event messages from the vehicle detection sensors to the Data Collector.

Wireless communication

The Relay node is a fully wireless unit, ensuring easy installation onto lampposts. Once installed, no maintenance is required for years.

Self-healing network

The SENSIT sensors follow multiple communication paths ensuring a self-healing network.

Mounting instructions

The Relay node mounting bracket fits any pole. It can also be mounted onto a wall.

Installation

The Relay node should be mounted preferable at about 3 – 6 meters [10- 20 ft] from the floor (eg. onto a lamppost) to allow for visible view of the sensors. The Relay node shall visually see the sensors at an angle, see the figure 1.

Guidelines

On-street: 1 Relay Node required per 25 sensors

Off-street: 1 Relay Node required per 50 sensors

Figure 1 shows information on position of the Relay Node RN-A is the proper location for the Relay Node.

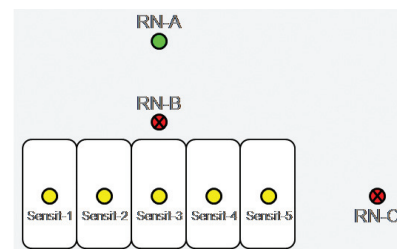


Figure 1: Relay Node position

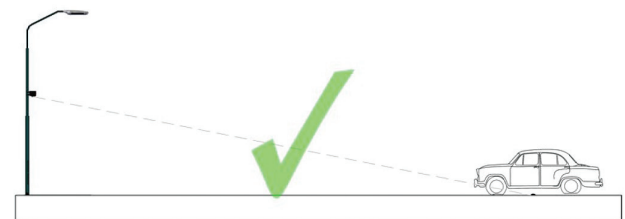


Figure 2: Relay Node A in figure 1 side view

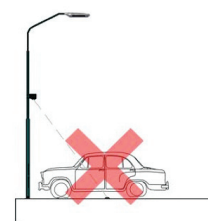


Figure 3: Relay Node B in figure 1 side view

SPECIFICATIONS

Technical information	Relay Node
Weight	365 gram, [12,87 oz]
Protection	IP67, completely sealed Housing PE
Colour	Black
Mounting	Onto a pole or wall, metal mounting bracket included
Suggested mounting height	3 – 6 meters [10 -20 ft] from the floor onto a lamppost or pole see for more information Relay Node_InstallGuide
Pole dimensions	Min. Ø 40 mm [1.57 in] Max. Ø 150 mm [6 in]
Wall mounting	With bracket using 4 screws
Operating temperature	-40 ... +85°C [-40...+185°F]
Storage temperature	-40 ... +85°C [-40...+185°F]
Communication distances	Data Collector – Relay Node max. 25m [75 ft]* Relay Node – Relay Node max. 50m [150 ft]* Relay Node – SENSIT max. 25m [75 ft] *
Power supply	Built-in lithium battery with expected lifetime of 3-5 years #
Part nr.	9966773 Relay Node EU 9966781 Relay Node US 9966790 Relay Node AU

* Dependent on the environment

Under normal usage and normal circumstances