

IMPROX VT

ImproX VT Infrared Vehicle Transmitter

INTRODUCTION

The ImproX Infrared Vehicle Transmitter is intended for use with the ImproX IR Infrared Receiver in vehicle access control applications, where detection at medium range is required (approximately 6 m).

Infrared communication is relatively free from interference from vehicle electric / electronic and industrial noise. The transmitted low power infrared beam is limited in distance and therefore the likelihood of interference to other systems is virtually nil. Because of its inherent characteristics it requires no adjustment or tuning.

The ImproX VT Transmitter is intended to be installed in a vehicle and mounted internally. There are two mounting feet with each transmitter, that allow the unit to be fitted either way up on the windscreen, or onto the dash board. Power is supplied from the vehicle's battery via the ignition switch.

The ImproX VT Transmitter continuously radiates the Tag Identity code. This signal is received by the IR Receiver as soon as the vehicle comes into range. This code is then used by the Access Control System to identify the vehicle and provide entry or exit control, by opening a gate or lifting a boom.

APPLICATIONS

- Vehicle Access Control systems.
- Vehicle identification systems



Two mounting feet with each transmitter that allows the unit to be fitted either on the windscreen or on the dashboard.

FEATURES

- Small physical size.
- Operates from vehicle battery.
- Low current consumption.
- High immunity to electrical noise.
- Internally mounted in the vehicle.
- Hands-free, automatic operation.
- Coded tag format identity code.
- Compatible with ImproX IR Receiver.

SPECIFICATIONS

| PHYSICAL SPECIFICATIONS | Dimensions | L = 40,5 mm (1,59") W = 42.7 mm (1,68") H = 40,5 mm (1,59") including pillar. |
|------------------------------|---|---|
| | Mass | 14 grams (0,5 oz) |
| Material | Moulded heat resistant, high impact polycarbonate | |
| Colour | Dark red GRP PCB | |
| ENVIRONMENTAL SPECIFICATIONS | Temperature Operating | -15 °C to +50 °C (+5 °F to +122 °F). |
| | Temperature Storage | -20 °C to +70 °C (-4 °F to +158 °F). |



| ELECTRICAL SPECIFICATIONS | Power Requirements | |
|----------------------------------|---------------------------|--|
| | Voltage | 6 V to 15 V DC. |
| | Current | 100 (max) @ 12 V DC supply voltage. |
| | IR Wavelength | 940 nm. |
| | Identity Code | Pre-programmed during manufacture and printed on the connecting cable surround sleeve. |
| | Read Range | 6 m (nominal) from the Receiver. |

RELATED IMPRO PRODUCTS

The ImproX VT Infrared Vehicle Transmitter is designed for use with the ImproX IR Infrared Receiver.

ORDERING INFORMATION

The ImproX VT Infrared Vehicle Transmitter can be ordered under the Impro code IVT900-0-0-GB-XX.