

ADD

Above Ground Dynamic Vehicle Detector

Features:

- Designed to meet Department of Transport Specification TR2123 Dynamic Detector
- Replaces multiple induction loop systems
- Simple line of sight installation
- High reliability, single circuit board construction
- Robust stainless steel housing
- No licensing requirement
- High immunity to false detects

The ADD unit is a result of Microsense's continuing traffic systems development program. The use of custom components in both the microwave and electronic signal processing modules has enabled production of a reliable and accurate vehicle detection unit.

The unit has the benefit of proven technology providing a robust and reliable detection signal. The design has been proven over several years experience of this application.

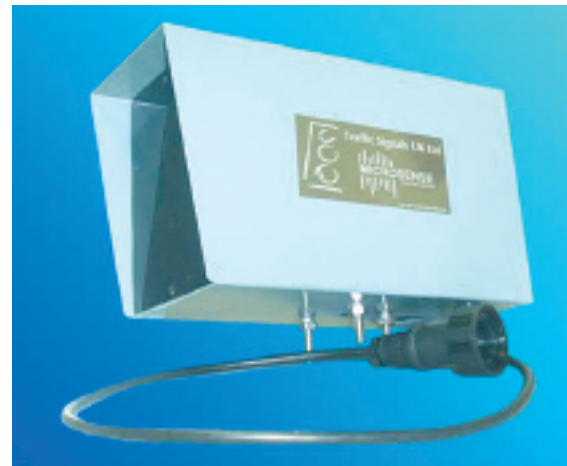
Attention has been paid to the unit housing, resulting in a robust and weather proof design that does not look out of place when sited on modern street furniture.

The ADD has a standard minimum speed detection threshold set to 8kph. A low speed threshold is also available set to 5kph. Alternatively, the units can be factory set to the customers preferred speed threshold figure prior to shipment.

SPECIFICATIONS:

Detection Zone:

When correctly installed, the initial detection point for normally encountered road vehicles heading towards the unit is in the range of 40 to 60m from the stop line. The width of the ADD beam is such that detection is possible across two normal lanes of traffic.



Response/Extension times:

500ms \pm 20%

Supply Voltage:

24V AC/DC \pm 20% @ < 300mA
230V AC 50Hz @ < 50 mA

Output:

Failsafe relay, contacts rated at 60VA, 2VA, 2A 250VAC

Detection Indication:

Daylight visible LED's are situated on the underside and back of the case for easy viewing with the unit installed. Both LED's illuminate during a detect call.

Operating Temperature Range:

-30 to + 70 Degrees Celsius

Operating Frequency:

10587 \pm 10MHz (or compliant with equivalent local frequency)

Microwave Power:

Less than 15dbm

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ADD

Mechanical:

Case Material: Stainless steel, plastic powder coated.

Window: Ultraviolet stabilised, rigid PVC.

Weight: 2.9kg ADDR24 (unpacked)
3.2kg ADDR230 (unpacked)
0.5kg MIASB mounting bracket (unpacked)

Dimensions: 232mm x 108mm x 154mm.

Connections:

ADDR24: one Bulgin Buccaneer P727/P (9 pin power and signal). CPU and wide connection section.

ADDR230: 2 Bulgin Buccaneer connectors – see below.

Table 1 – Connector Pin Allocation:

| Pin | Functions for 24V Connector type | Functions for 230V connector type |
|-----|----------------------------------|-----------------------------------|
| 1 | Supply + ve | } Power on separate |
| 2 | Supply – ve | } connectors – |
| 3 | Chassis Earth | } table 2 below |
| 4 | Relay Common | Relay Common |
| 5 | Relay NC (open for detect) | Relay NC (open for detect) |
| 6 | Relay NO (closed for detect) | Relay NO (closed for detect) |
| 7 | } | } |
| 8 | } not used | } not used |
| 9 | } | } |

Table 2 – Power Pin Allocation:

| Pin | Power Cable for 230V connector type |
|-----|-------------------------------------|
| 1 | Live |
| 2 | Neutral |
| 3 | Earth |

Ordering Information:

Order as: ADD-R-24
ADD-R-230

Item MIASB Stainless steel mounting bracket
HB Handbook

Note: All units are automatically dispatched with mating chassis connectors.

Please contact the Sales Department for further details or with enquiries about our product range.