

AIM - K

Above Ground Kerbside Detector

Features:

- Approved to UK Specification TR2182
- Well defined detection zone
- High immunity to false calls
- Simple installation
- High reliability
- No licensing requirement
- Low power
- Low installed cost
- Immune to changes in ambient light and shadows
- Microprocessor controlled

This active infrared sensor is designed to detect the presence of pedestrians waiting to cross a road.

The unit is suitable for use at PUFFIN crossings or signal controlled junctions, with pedestrian phases to confirm the actuation of the 'wait' push button. If the pedestrian leaves the detector zone, the demand can be cancelled.

The unit gives an output while one or more pedestrians wait in the detection zone (see figure 1).

An LED is provided on the underside of the unit, to give a visual indication of pedestrian presence.

The unit tracks environmental changes automatically.

SPECIFICATIONS:

Supply Voltage:

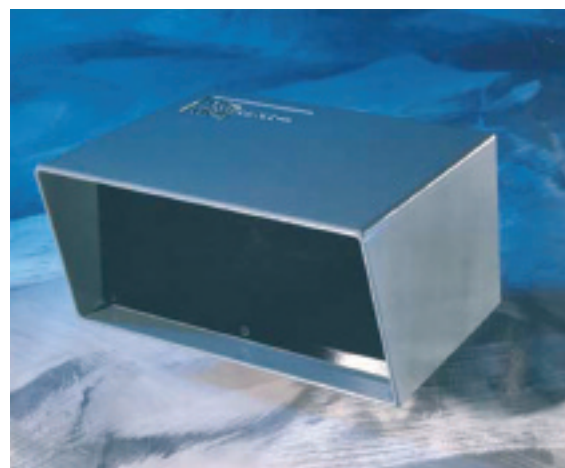
24V AC or DC $\pm 20\%$ @ < 200 mA
230V AC @ < 30 mA

Output:

Relay (de-energised for detect), contacts rated 1 A 24 V DC, 0.5 A 120 V AC.

Mechanical:

Case Material: The detector enclosure is a two-part die cast aluminium construction, with a mounting flange provided at the rear. The separate mounting bracket (see accessories) is also manufactured from aluminium to prevent corrosion.



Dimensions:

212 x 110 x 175mm (W x H x D), excluding connections and mounting flange. Flange projects approx. 70mm from the rear of the unit.

Weights:

2.0kg AIMK24-D (unpacked)
2.25kg AIMK230 (unpacked)
0.3kg MIAB1 bracket (unpacked)

Connections:

Connection to the unit is by means of chassis mounted Bulgin Buccaneer connectors. The 24V version has a single 9-way male connector and the 230V version supports 2 connectors, as shown overleaf. Each unit is supplied with a female connector suitable for connecting to multi-core cables between 7 and 8mm overall diameter. Individual cores are terminated in crimp terminals.

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Alternatively, separate cores may be connected with a short length of a suitable flexible conduit pushed over the connector body. Pin allocation is shown in the Table 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 – see
3	Chassis Earth	} table 2 below
4	Relay 1 Common	Relay 1 Common
5	Relay NC	Relay NC
6	Relay NO	Relay NO
7	}	}
8	} not used	} not used
9	}	}

Mating connector type P727P.

Table 2 – Power Pin Allocation:

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

Installation Instruction:

The unit is mounted at the top of the signal pole, at a height of between 3.0m to 3.5m from the mounting flange hole to the ground. The unit should point parallel to the kerb. Suitable for left or right handed mounting.

Vertical alignment of the unit is achieved by ensuring the top surface of the sensor housing is at the required angle to the horizontal (see figure 1). A mounting angle setting template is provided in the handbook.

Figure 1a - Side View of Detection Zone

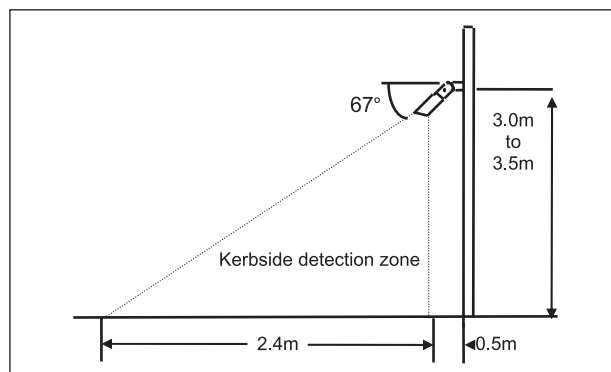
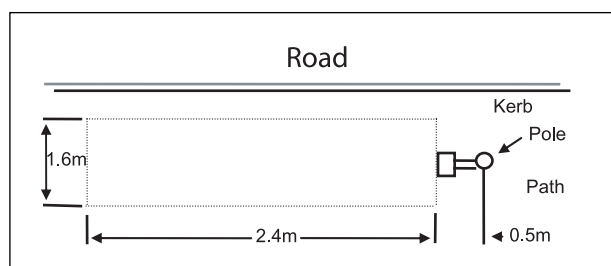


Figure 1b - Plan View of Detection Zone



Ordering Information:

Order as: AIMK24-D
AIMK230-D

Accessories:

Order as: MIA-B1 rightangled mounting bracket.

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