

ASIM by Xtralis Traffic Detectors

DT 37x Ultrasonic PIR Vehicle Detectors

DT 372

Dual-Tech-Detection

The ASIM Dual-tech Detector DT 372 uses two different physical principles (ultrasound and passive infrared) to recognise vehicles with enhanced accuracy. It detects all types of objects moving through or remaining in its detection zone and records their maximum height and occupation time.

Application

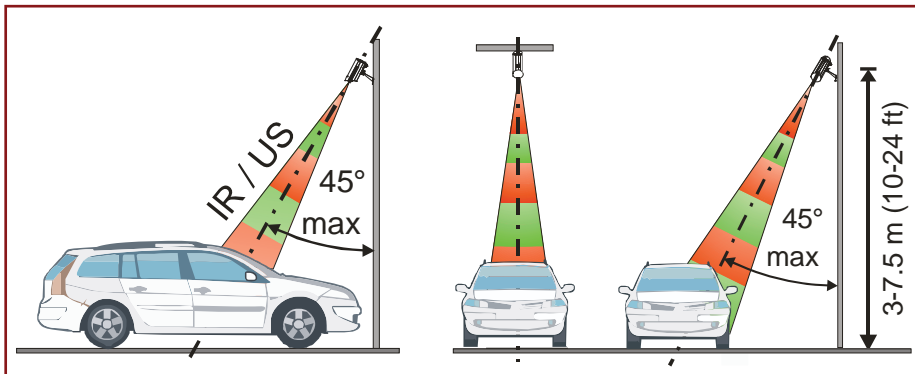
The DT 372 detects vehicles for specific applications and the following configurable functions:

- Requesting green signal at intersections
- Extending green phase at intersections
- Traffic jam and true presence detection
- Vehicle counting
- Height and distance determination

Using the ultrasound sensor, the DT 372 detector can determine the constant presence of any object in its detection zone by measuring the height difference from the object to the ground. Users also can set an adjustable height threshold to enable the detector to distinguish between “high” and “low” vehicles and count them separately.

Dual-tech detectors replace ground loops in many applications without cost-intensive road work and traffic interference during installation, maintenance and repair. The units are installed either directly overhead or sideways next to the monitored lane.

Detection Zones



Product Highlights

- Ultrasound technology combined with passive infrared determines presence and height of vehicles and classifies them high and low.
- Data output through relay or open collector.
- Automatic self-calibrating routine to ease commissioning.
- “Knock” interface allows installer to check alignment and calibration without a computer.
- Installation, configuration, maintenance and analysis can be done by the ASIM-T software via the RS 485 interface.

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Specifications

Mechanical	
Case Material	Heavy Duty Plastic, white
Bracket	Stainless Steel V 2A
Weight	App. 900 g (2.0 lbs), incl. mounting bracket
Cable Feeds	2 x M 16 Outer Cable Diameter: 4.5 ... 6.3 mm (0.18 ... 0.25 inch)
Ultrasound	
Frequency	40 kHz
Pulse Frequency	3.5 ... 30 Hz
Infrared	
Sensors	Pyroelectric, differential single channel
Spectral Response	8 ... 14 μ m
Electrical	
Supply Voltage	10.5 ... 30 V DC / 24 V AC (\pm 15%)
Current Consumption (Detector in Alarm State)	Typ. 30 mA @ 12 V DC Typ. 25 mA @ 24 V AC
Alarm Relay Output	SPST rated 30 V DC, max. 100 mA
Transistor Output	Open collector NPN, 30 V DC, max. 50 mA
Turn-on Time	Typ. 20 s from power on
Communication	Bi-directional RS 485 @ 9'600 baud, 8, e, 1
Wiring Terminal Block	0.34 mm ² ... 1.5 mm ² (AWG 28 ... 16)
Accuracy	
Counting	Typ. \pm 3%
Environmental	
Operation Temperature	- 32°C ... + 60°C
Humidity	95 % RH max.
Sealing	IP 64 splash proof

Accessories

Z A P L 1



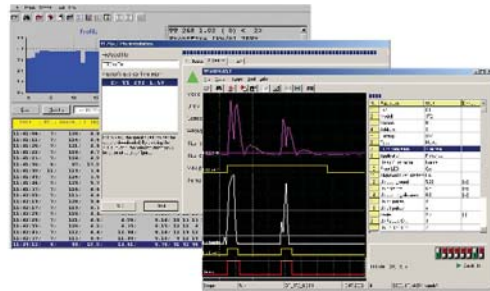
Universal bracket with steel bands for mounting the detector directly) onto all kinds of poles and overarms with a diameter of 40 mm - 160 mm

IF 485B



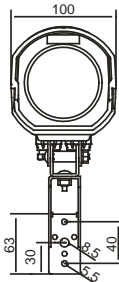
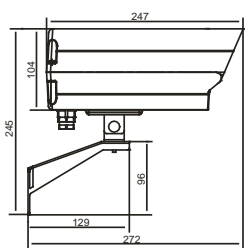
RS 485 to USB/RS 232 interface

ASIM-T Software

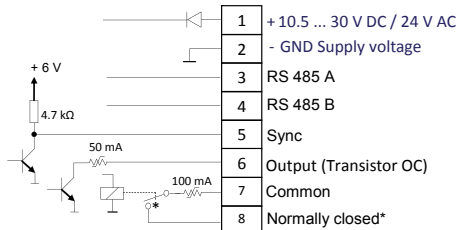


Software for installation, commissioning, maintenance and analysis on the PC

Mechanical Dimensions [mm]



Electrical Connections



* Relay shown in energized (non-alarm) condition

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