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# Phoenix 2+ video detector systems

Compact, cost-effective, easy to install

**Uses:** The Phoenix 2+ presence detection system is an excellent solution for junction control and for collecting the data needed for traffic-actuated signal switching. The dual-camera system uses processor modules designed to European 19" standard and featuring 16 switching outputs.

**Benefits:** The especially compact detection system offers an unusually advantageous cost-performance ratio and is very easy to install, configure and maintain. The processor module weighs only 160 g (0.35 lb) and can be mounted in any traffic controller. The 64-pin DIN connector backplane provides convenient terminations for power, communications, detector and video inputs/outputs. Setup is fast and easy via the network browser using keyboard and mouse commands. And the list of the system's advantages goes on to include also high accuracy and reliability as well as especially low power consumption.

**Safety:** Both video inputs are processed at full frame rate for high performance detection of fast moving vehicles. After power-on, the system carries out a self-test. LEDs on the front panel serve to indicate status for power supply, video signals, communications and switching inputs and outputs.

## Key product features

- Vehicle presence detection
- Dual-camera detection system
- TCP/IP or USB, video live-streaming and remote setup
- Connection to any traffic controller
- Non-volatile data memory
- Self-test after power-on
- LEDs to indicate status for power, video signals, communications and switching outputs
- Low power consumption of entire system



## Technical specification

### Phoenix 2+ cameras

#### Supply power

- 20 to 36 V DC
- Power consumption
  - ca. 100 mA for 24 V DC, 2 W

#### Video

- Output
  - Differential
  - Composite

#### Lens

- Focal length: 4.3 mm and 8 mm

#### Camera

- Signal-to-noise: > 48 dB
- Dynamic range: 50 dB

#### Housing

- UV-resistant enclosure, protection class IP67
- IR-reducing cover glass
- Sunshield protects against incident light and precipitation
- Sturdy, adjustable camera mounting bracket

#### Ambient conditions

- –34°C to +60°C
- 0 to 100 % relative humidity

#### Dimensions and weight

- Diameter × depth
  - 92 mm × 185 mm (3.6" × 7.3")
- 910 g (2 lb)

### Phoenix 2+ processor module

#### Supply power

- 12 to 24 V DC, max. 8 W
- Power consumption
  - 12 V DC, 6 W, 500 mA
  - 24 V DC, 7 W, 290 mA

#### Video

- Input
  - PAL, CCIR, NTSC, RS170
  - 2 channels 75 Ω 1 V<sub>pp</sub>, SMA connectors
- Output
  - 1 V<sub>pp</sub>, BNC-connector on front panel
  - PAL or NTSC

#### Communications

- USB Supervisor communication via mini USB 2.0 connector (front side)
- Ethernet communication via USB-Ethernet adapter (optional)

#### Detector I/O

- 16 outputs (open collector, selectable active low or high)
- 4 inputs
- Status output (open collector, active low) for detector status monitoring

#### Ambient conditions

- –34°C to +74°C
- 0 to 95 % relative humidity

#### Dimensions and weight

- Processor module
  - H × W × D: 130 mm × 20 mm × 207 mm (5.12" × 0.8" × 8.15")
- 160 g (0.35 lb)

Phoenix 2+ is a product of Image Sensing Systems, Inc.

Image Sensing Systems Europe Ltd. Registered Office:  
City Park, Swiftfields, Welwyn Garden City, Hertfordshire,  
AL7 1LY United Kingdom

**Siemens AG**  
Infrastructure & Cities Sector  
Mobility and Logistics Division  
Road and City Mobility  
Hofmannstrasse 51  
81379 Munich  
Germany

[www.siemens.com](http://www.siemens.com)

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The information in this document contains general descriptions of the technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.