



Traffic Counting and Surveillance Systems

Englo designs and manufactures vehicle crossing detectors and traffic monitoring sensors that can be used in civil and military applications for traffic monitoring and area surveillance. These products allow the user to determine the number or type of vehicles that cross a section of a road or an entrance to an area or building, and take necessary action.

Vehicle Crossing Detectors with Output Relay

Englo's vehicle crossing detectors are ideal in civil and military applications to detect unwanted vehicular traffic near a road, parking lot, building or other object. The detectors do not react to nearby humans or animals.

Two types of vehicle crossing detectors are available – single point and continuous line detectors. Both detectors are buried into the ground near the area of interest. Whereas single point detectors use a single electronic sensor, continuous line detectors can form a long line or a loop around the surveyed area.

The detectors count passing vehicles and, by using the integrated output relay, FET or current loop, can trigger a pre-determined action to approaching or departing vehicles, such as set off a light or sound signal, open or close gates or doors, switch traffic and street lights on and off, etc.

If equipped with an additional module, the sensors can send SMS notifications to up to 4 different users, alerting them of the location where a sensor was activated.

The vehicle crossing detectors are rated IP67 under the international IEC 60529 standard.

SCYLLA-2: Single Point Vehicle Crossing Detector with Output Relay

- Rod type sensor
- Counts crossing vehicles
- Output relay, FET or current loop to trigger an action upon a crossing vehicle
- Optional module for SMS for up to 4 people
- Does not react to nearby humans or animals

COBRA-2: Continuous Line Vehicle Crossing Detector with Output Relay

- Can be placed in a long line or loop
- Counts crossing vehicles
- Output relay, FET or current loop to trigger an action upon a crossing vehicle
- Optional module for SMS for up to 4 people
- Does not react to nearby humans or animals

| Product | Loop Length (m) | Min vehicle weight (t) | Min vehicle speed (km/h) | Output | Size of sensor (cm) |
|----------|-----------------|------------------------|--------------------------|----------------------------|---------------------|
| SCYLLA-2 | - | 0.8 | 10 | Relay, FET or current loop | Ø2.2 x 15 |
| COBRA-2 | 6 - 200 | | | | |

Traffic Counting Sensors

Englo's traffic counters are vehicle traffic monitoring sensors that are targeted to be used on 2-way roads to determine traffic loading and volume. The devices are easy to install and do not need any external wiring.

The traffic counting sensors are self-contained units that can be used to count number of vehicles that pass a section of a road real time, and categorize these vehicles to Classes 1, 2 and 3, which includes motorcycles, cars, vans, buses, small and large trucks and cars with trailers. In addition, sensors measure the vehicle speed and distance between two consecutive vehicles.

The traffic counting sensors include a built-in memory that stores the measured data. The information can be accessed through the device's USB port or bluetooth. Software GUI is provided that displays the data and exports it to an Excel file as needed. The USB port is also used to charge the internal battery of KLL-2.

KLL-3B has an optional cellular modem for convenient transfer of data from the traffic sensor to a web server.

The vehicle crossing detectors are rated IP68 under the international IEC 60529 standard.

KLL-2: Traffic Counting Sensor

- Stores data for individual vehicles and vehicle class, vehicle speed and distance between vehicles
- Data can be viewed through GUI or converted to Excel
- Data transfer through USB, wireless module available upon demand
- Long lasting internal battery, charged through USB
- Comes with 2 sensors

KLL-3B: Traffic Counting Sensor

- Stores data for individual vehicles, vehicle speed and distance between vehicles
- Data can be viewed through GUI or converted to Excel
- Data transfer through Bluetooth, cellular communication module available upon request
- Long lasting internal battery
- Comes with 2 sensors

| Product | Sensor Weight (g) | # Vehicles | Vehicle Class | Vehicle Speed | Distance Between Vehicles | Optional cellular modem | Internal battery life (days) |
|---------|-------------------|------------|---------------|---------------|---------------------------|-------------------------|------------------------------|
| KLL-2 | 580 | ✓ | ✓ | ✓ | ✓ | - | 60 |
| KLL-3B | 560 | ✓ | ✓ | ✓ | ✓ | ✓ | 365 |



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