ULSAŞ

Bike & People Detector

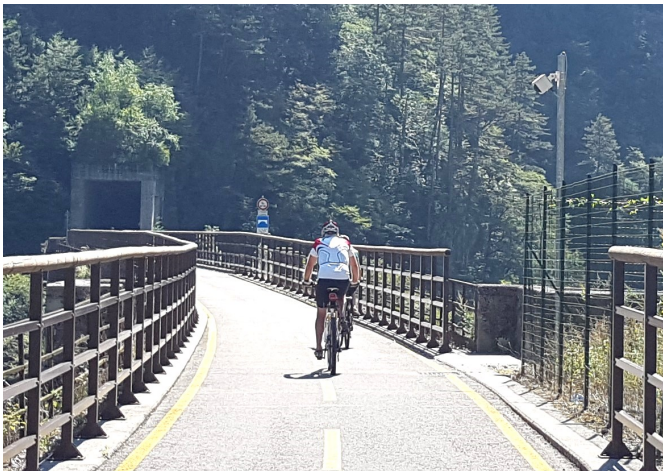
Laser scanner

LSR2001BC

The LSR2001BC detector uses the laser technology to detect bicycles and pedestrians. The emitted laser beam is used to scan on 4 parallel planes at an angle of 96°. For each plane the sensor detects 274 points and is able to accurately identify the profile of the bicycle or person.

The laser detector is able to:

- Count bicycles and people
- Discriminate between people and bicycles
- Detect the transit direction



Detector installed on side pole

Compared to other more simple counting systems, the sensor LSR2001BC is very accurate in detecting both the bicycles and pedestrians even if they transit in group. The sensor performs continuous scans across the width of the cycle path and is able to discriminate individual bicycles even if they are very close together.

Another important feature is its ability to distinguish between pedestrians and cyclists analyzing the profile.

Bicycle profile

Person profile

The sensor must be installed on a pole at the side of the cycle path at a height between 2 to 5 meters. The sensor is equipped with an adjustable bracket which allows the precise orientation.

The detector has been designed by both the mechanical and the firmware point of view to work outdoors even with adverse weather conditions. The firmware implements filters for rain and snow.

The sensor is equipped with a CPU that processes the signals received from the scanner to obtain all the data related to transit. The communication with the sensor can be done through Ethernet line. The configuration through the Ethernet line can be carried through the use of simple and intuitive web pages.

Technology	Laser scanner
Emitted light	905 nm – not visible
Laser class	Class 1
Scan angle	96°
Power supply	12 or 24 Vdc
Protection	IP65
Temperature range	-20°C : +50°C