# ULSAŞ
# Vehicle Detector

## Laser and photocells

# LSR2001 AXLES
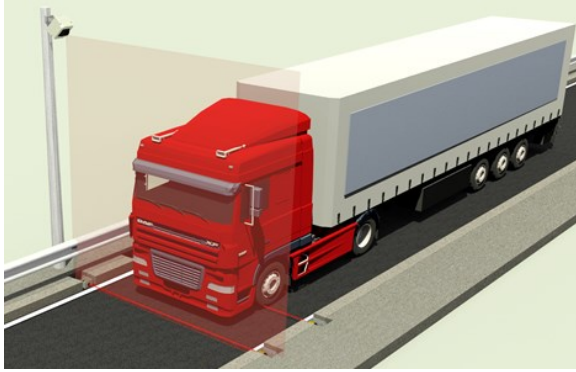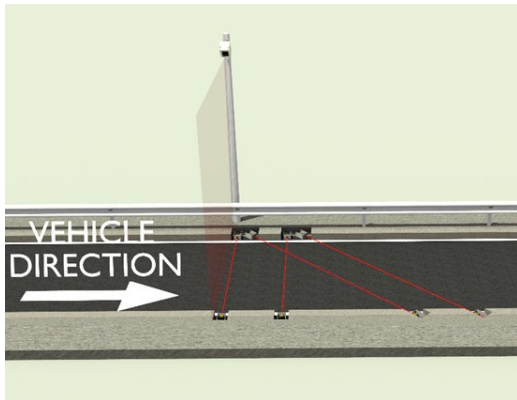
The LSR-2001-AXLES sensor uses laser technology to detect vehicles and infrared photocells to detect axles.



*Picture 1: LSR2001-AXLES-2 with double photocell*



VEHICLE DIRECTION

*Picture 2: LSR2001-AXLES-4 with 4 photocells*

## Data provided by the system:

- Counting / vehicle presence

- Classification in 8+1 classes

- Number of axles

- Height and width of the vehicle

- Speed

- Length

- Double wheel detection (only with the 4-photocell version)

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| Technology | Laser scanner, time of flight measurement |
| Emitted light | 905 nm – not visible |
| Laser class | Class 1 |
| Max. detection range | 30 m |
| Scan angle | 96° |
| Scan period | 16 ms  (60 Hz) |
| Transmission power | 16 dB |
| Communication line | Ethernet |
| Temperature range | -45°C +60°C |
| Power supply | 12 or 24 Vdc |
| Photocells | Infrared |
| Protection | IP65 laser and IP69 photocells |
| Photocells response time | LSR2001: -20°C : +50°C  LSR2001T: -40°C : +60°C |
| Power consumption | < 5W |