

COMPONENTS OF PARKING GUIDANCE SYSTEMS

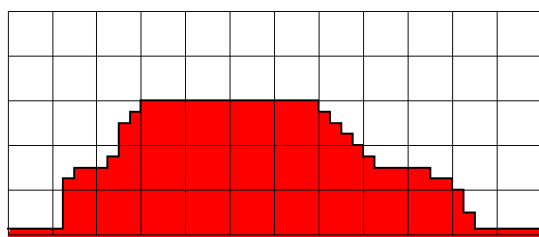
USDS 300 Directional detector

- Substitute for double loop
- Conditional direction counting
- Serial data output
- Potential-free counting contacts
- Automatic height measurement
- Direct ceiling montage
- Maintenance free
- Robust steel case



Function

Two groups of sensors continually determine the gap. A passing vehicle produces a typical height-profile as the picture below describes.



Using the correlating information and a suitable pattern-recognition process, each vehicle is able to differentiate itself from other objects. Apart from that, the three sensors enable a reliable recognition of distance and the difference between two vehicles driving closely behind one another.

Two neighbouring sensors synchronise each other via a direct connection, so that measurement errors are avoided. The detection of a vehicle is in real-time and depends on orientation. The information can be sent to the counting device via two relays or over the serial interface. In this case, other information over the power cut safe, internal counting values and the sensor's status is also transferred.

Mounting

The sensor is attached to the ceiling, parallel to the floor in a distance of two to three meters, just like a normal fluorescent light. If the ceiling is higher than 3m then the sensor should be hung at a height less than 3m. The entrance should be arranged so that the sensor can register the vehicle.

Connection

The sensor has two ways of connecting the electricity supply (230V, 115V) and the data transfer - with the serial interface and/or the two relays.

Technical Data

Dimensions:	(WxLxH) 1900 x 65 x 90 mm
Weight:	7 Kg
Measurement:	Ultrasonic distance
Effective range:	up to 3 m
Resolution:	0,01 m
Frequency:	41 KHz
Bandwidth:	< 1KHz
Angle of projection:	10°
Supply:	230 (115) Volt
Intake:	5 W (in middle)
Data transfer:	RS485 2-Wire; Plus-Minus relay
Temperature:	-20°C to +70°C
Protection:	IP43

Options

Synchronisation neighbouring sensors
Electronic built-in heater for use in very cold locations (down to -40°C)

Country of origin Germany