

wavetec HighEnd

Measuring traffic information of several lanes with additional detection of a radar object's position. Simultaneously up to 30 objects can be detected, classified and evaluated concerning time, direction, speed, vehicle class and vehicle positions.

The detector version described in the following is just one of many. There are several ways to combine our huge range of possibilities to serve any individual cause. So usually individual adjustments for our customer solution are possible!

Operation

High End Detector is based on the most recent FMCW / FSK radar technology. That way it is able to detect the specific position of a radar object in the space of measurement. The innovative DSP signal analysis can detect up to 30 objects at the same time.

The use of this technic makes an improved classification and precise lane matching of detected objects possible. After an overhead montage the object's height can be monitored also.

Every object data is saved on a regular SD-Card. The detection occurs exact to the second including time stamp, speed, direction, position of coming into the measured range, position of going out of the measured range and vehicle class.

Using the PC-Software or the graphical Terminal the Detector can be adjusted for your personal causes. USB interface is offered and an optional WiFi interface. This way for example measured Speed- and Positionranges can be defined and up to 16 relays can activate.

The saved object data can be easily read out and the current traffic situation can be observed on display in real time.

Saved traffic data can be comfortably evaluated with the additional PC-software. Using the integrated RS485 interface external devices can easily communicate with the detector.

For example several displays can be connected to the detector to indicate speed separately for every lane.

details

power supply:

- o supply voltage: 10VDC – 35VDC
- o overvoltage protection: Yes
- o polarity protection: Yes
- o overcurrent protection: Yes (fuse)
- o supply current: 300mA
- o power consumption: 3,6W

measurement unit:

- o radar: 24,125 GHz, K-Band
- o output power: 5 mW
- o modulation: FSK / FMCW
- o kind of detection: bidirectional
- o radar beam angle: 12°x30° (Spear)
- o speed range: 3... 255 km/h
- o accuracy: ± 2 % ± 1 digit
- o measuring range: up to 300m (Spear)
- o object measurement: bidirectional

interfaces / display:

- o up to 16 relays: 250VAC, 8A
- o 3x dual-color LEDs showing operating status
- Configuration & interface:
 - o USB 2.0

Optionen / Zubehör:

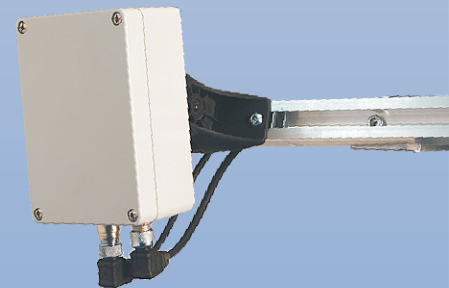
- o 512MB SD-Card
- o RS 485 RS485 device bus with up to 15 nodes
- o up to 16 opto-coupler instead of relays
- o WiFi interface
- o graphical terminal for configuration and displaying current traffic situation
- o GSM / GPRS for remote data access and configuration
- o network-compatible, field-bus and TCP/IP

housing:

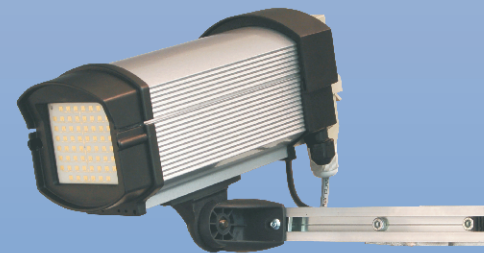
- o dimensions: W x H x D: 100mm x 120mm x 55mm
- o weight: 500 g
- o material: ABS
- o protection class: Ip65

operating conditions:

- o temperature range: -20° ... +80° Celsius
- o humidity: max. 90%, not condensing



pluggable version*



aluminium housing*



back side*

*(examples of standard versions)