wavetec **Catch**

'Intelligent detection, monitoring and saving of traffic data.

'time, speed and direction of driving are detected exact to the second and can be integrated in existing systems as cause of reaction.

'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 djustments for our customer solution are possible!

Operation

Catch Detector is based on CW Doppler-radar technology. It monitors the speed of a radar object and activates several relais and opto-coupler.
The speed range that should be measured can be adjusted with a turnswitch. Alternatively you can adjust via PC or Terminal configurations like operation time.
You can get out monitored speed information via an optional USB, RS232 or RS485 interface to use it for a secondary cause like a professional speed display.
The monitored radar objects are saved on a regular SD-Card. Monitoring occures exact to the second including time-stamp, entering-speed, direction and outcoming-speed. This traffic data can be evaluated comfortably on a regular PC.
wavetec Catch Detector is perfectly modified for the steering of fake speed traps, warning-signs for ghost drivers, for tunnel monitoring and the steering of Speed Displays also.

details

power supply:
o supply voltage: 10VDC – 35VDC
o exhaustive discharge protection (battery): 12V
o overvoltage protection: Yes
o polarity protection: Yes
o overcurrent protection: Yes (fuse)
o supply current: 30mA
o power consumption: 0,36W

measurement unit:
o radar: 24,125 GHz, K-Band
o output power: 5 mW
o modulation: none
o kind of detection: CW, bidirectional
o radar beam angle: 12°x25° (Spear)
o speed range: 3... 255 km/h
o accuracy: ± 2 % ± 1 digit
o measuring range: up to 250m (Spear)
o object measurement: unidirectional oder bidirectional

interfaces / display:
o up to 16 relays: 250VAC, 8A
o 3x dual-colored LEDs showing operation status

configuration / data interface:
o USB 1.0 (USB2.0 compatible)

options / accessories:
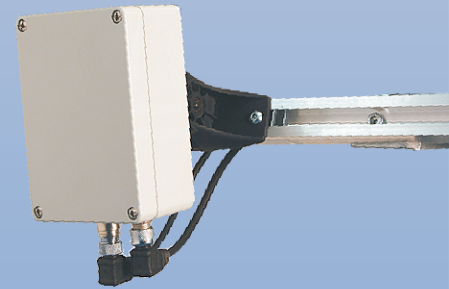o 512MB SD-Card
o RS 485 device bus, 9600 Baud / 115200 Baud
o RS 232 device bus, 9600 Baud / 115200 Baud
o Up to 16x opto-coupler instead of relays
o WiFi interface
o terminal for configuration and reading data
o 110VAC – 230VAC with external power supply
o housing for protection class IP65
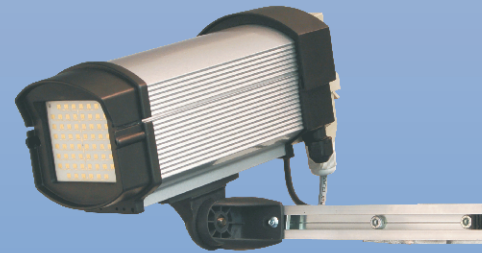o flashing light for fake speed traps

housing:
o w x h x d: 160mm x 80mm x 55mm
o weight: 500 g
o material: ABS
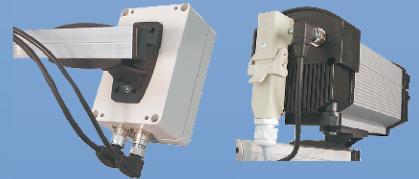o protection class (depending on version): IP40 / IP65

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

pluggable version*

aluminium housing*

back side*

*(examples of standard versions)