

viafalcon SOLAR



Ball joint fixture:
For the fixation of the detector at various posts.



Fork mounting:
For the fixation of the viafalcon SOLAR.

Microprocessor controlled radar detector for movement and speed detection applications at long distance range with data output for the measured speed values. Detects approaching and / or leaving vehicles (detection direction adjustable). Narrow detection zone with 12° x 17° antenna beam width. Parameter setting by the serial RS232 interface and manually through switches.

The detector sets a relay if the speed exceeds or falls below the adjusted speed threshold. A third relay indicates the vehicle movement direction. Numeric data output of all measured speed values by RS232 interface. Cycle time for the measurement is adjustable between 200 ms and 2,5 s. The detection sensitivity is adjustable in 5 steps.

With the integrated discharge protection and very low power consumption < 50mW it is particularly suitable for solar and battery powered applications.

viafalcon TRACK



Ball joint fixture:
For the fixation of the detector at various posts.



Fork mounting:
For the fixation of the viafalcon TRACK.

The viafalcon TRACK is based on our viafalcon SOLAR radar detector. Additionally to its RS232 interface for speed data output and 3 relays for controlling LED signs, the viafalcon TRACK has a circuit board for data storage with real-time clock and 4MB flash memory.

With a second RS232 interface on the circuit board for data storage, the data can be quickly uploaded in a secured transmission protocol.

The viafalcon Track stores the collected data exact to the minute. The storage capacity equates to approximately 1.8 million single measurements of storage to the minute.

Applications:

- Battery and solar powered standalone systems
- Speed displays
- Speed activated variable message signs (VMS)
- Over speed and wrong direction driver warning signs
- Intelligent warning signs
- Railway surveillance

Technical specification: digitalFALCON SOLAR

Sensor type	CW stereo-Doppler radar, planar module
Type of detection	Movement
Detected direction	uni- or bidirectional
Antenna	12° x 17° Patchantenna
Transmit frequency & power	24.165 GHz / 100mW (EIRP)
Detection distance range (cars)	250 m
Detected speed range	5 - 255 km/h
Power supply (nom, min, max)	12V / 5.4V - 30V DC
Current consumption @ 12V DC	3.5 mA
Signal outputs	3 relays, 2 LED
Data outputs	Yes
Interface (Standard)	RS 232
Interface (Optional)	-
Data protocol, format	ASCII, 8N1
Data transmission rate	9600 Baud
Operation temperature range	-40° - +70° Celsius
Housing (H x W x D)	125 x 80 x 57 mm
Housing protection class	IP 66
other features	Measurement cycle 200 ms - 2,5 s adj. / manual parameter setting / Battery discharge protection for 6V, 12V and 24V
Options	230V-version

Applications:

- Devices where additionally to measuring vehicle speed, a data storage with time information is needed
- Speed displays
- Speed activated variable message signs
- Intelligent warning signs

Technical specification: digitalFALCON TRACK

Sensor type	CW stereo-Doppler radar, planar module
Type of detection	Movement
Detected direction	uni- or bidirectional
Antenna	12° x 17° Patchantenna
Transmit frequency & power	24.165 GHz / 100mW (EIRP)
Detection distance range (cars)	250 m
Detected speed range	5 - 255 km/h
Power supply (nom, min, max)	12V / 5.4V - 30V DC
Current consumption @ 12V DC	20 mA
Signal outputs	3 relays, 3 LED
Data outputs	Yes, detector and data storage board
Interface (Standard)	detector: RS 232 / data storage board: RS 232
Interface (Optional)	-
Data protocol, format	ASCII, 8N1
Data transmission rate	detector: 9600 Baud, data storage board: 115200 Baud
Operation temperature range	-40° - +70° Celsius
Housing (H x W x D)	125 x 80 x 57 mm
Housing protection class	IP 66
other features	Measurement cycle 200 ms - 2,5 s adj. / data storage with real time clock / Battery discharge protection for 6V, 12V and 24V
Options	-