



viafalcon SOLAR

Radar detector · speed data output · ultra-low power for solar and battery systems

TECHNICAL FEATURES

24 GHz
Doppler radar

250 m
range

< 50 mW
consumption

RS 232
data output

IP 66
housing

Description

Microprocessor controlled radar detector for movement and speed detection at long distance range, with data output of the measured speed values. Detects approaching and / or leaving vehicles (detection direction adjustable), with a narrow 12° x 17° detection zone. A relay is set if the speed exceeds or falls below the adjusted threshold; a third relay indicates the vehicle movement direction. All measured speed values are output numerically via RS232. With integrated discharge protection and very low power consumption below 50 mW it is particularly suitable for solar and battery powered applications. Applications: battery and solar powered standalone systems, speed displays, speed activated VMS, over speed and wrong direction driver warning signs, intelligent warning signs, railway surveillance.

RADAR FEATURES

Sensor type	CW stereo-Doppler radar, planar module
Type of detection	Movement
Detected direction	Uni- or bidirectional (adjustable)
Antenna	12° x 17° patch antenna
Transmit frequency and power	24.165 GHz / 100 mW (EIRP)
Detection distance range (cars)	250 m
Detected speed range	5 - 255 km/h
Measurement cycle	200 ms - 2,5 s, adjustable
Detection sensitivity	Adjustable in 5 steps

ELECTRICAL FEATURES

Power supply (nom / min - max)	12 V / 5.4 V - 30 V DC
Current consumption at 12 V DC	3.5 mA (< 50 mW)
Signal outputs	3 relays, 2 LED
Battery discharge protection	For 6 V, 12 V and 24 V

INTERFACES & DATA

Data outputs	Yes, numeric output of all measured speed values
Interface (standard)	RS 232
Data protocol, format	ASCII, 8N1
Data transmission rate	9600 Baud
Parameter setting	RS232 interface and manually through switches

MECHANICAL FEATURES

Housing (H x W x D)	125 x 80 x 57 mm
Housing protection class	IP 66
Operating temperature range	-40 °C to +70 °C
Mounting	Ball joint fixture for various posts · fork mounting (accessories)
Options	230 V version



Detector housing and fork mounting.

