



viafalcon BASIC

Radar detector · movement and speed detection · long range

24 GHz
Doppler radar

250 m
range

RS 232
interface

IP 66
housing

TECHNICAL FEATURES

Description

Microprocessor controlled radar detector for movement and speed detection applications at long distance range. Detects approaching and / or leaving vehicles and pedestrians (detection direction adjustable), with a narrow detection zone thanks to the 12° x 17° antenna beam width. Parameters are set via the serial RS232 interface and manually through switches. If the adjustable speed threshold is exceeded, the detector sets the signal output (relay) for an adjustable hold time. Detection sensitivity is adjustable in 5 steps. Applications: speed warning signs, speed activated variable message signs (VMS), wrong direction driver detection, economic replacement of inductive loops, railway surveillance, movement detection.

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	0.7 - 255 km/h
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	40 mA
Signal outputs	1 relay, LED
Battery discharge protection	For 6 V, 12 V and 24 V

INTERFACES & DATA

Data outputs	No
Interface (standard)	RS 232, for parameter setting only
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 · 3 relays with separate thresholds · 1 relay with min. and max. threshold



Detector housing and fork mounting.

