

viafalcon PLUS



PLUS 2 / PLUS 3



viafalcon PLUS connector:
Integrated male socket with
female cable connector.

Microprocessor controlled radar detector for real-time data output of vehicle speed, profile value for vehicle classification and net time gap, as well as movement and speed signalisation through signal outputs. Detects approaching and / or leaving vehicles (detection direction adjustable). Viafalcon PLUS 2 (11° x 11° antenna) for mounting in an overhead position with a lane selective round radar spot. Viafalcon PLUS 3 (11° x 18° antenna) with higher distance range for mounting in overhead or sidefire position with an elliptic radar spot on the lane. The viafalcon PLUS is delivered with various interfaces, e. g. RS232 (standard), RS232 + relay, RS232 + 3 optocouplers, serial current loop (tty) or RS422. The tracking mode delivers speed values and set the signal outputs (relay or 3 optocouplers) accordingly to the thresholds.

The counting mode used in a typical measurement angle of 45° delivers the vehicle speed at beam entrance, the profile value for vehicle classification and the inter-vehicle net time gap at beam exit.

Additionally the relay or the 3 optocouplers are set according to the programmed speed and length thresholds. The 3 optocoupler indicate object detected, speed threshold exceeded, profile value exceeded. The detection sensitivity is adjustable.

Applications:

- Traffic management systems, traffic data measurements (vehicle counting and classification, net time gap, road occupation, distance calculation)
- Traffic jam warning, tunnel surveillance
- Traffic density and travel time calculation
- Numeric speed displays, traffic counter and classifier systems
- Intelligent warning signs and variable message signs (VMS)

Technical specification: digital FALCON PLUS 2 / PLUS 3

Sensor type	CW stereo-Doppler radar, planar module
Type of detection	Movement
Detected direction	uni- or bidirectional
Antenna	11° x 11° / 11° x 18° Patchantenna
Transmit frequency & power	24.165 GHz / 100mW (EIRP)
Detection distance range (cars)	250 m
Detected speed range	0.5 - 255 km/h
Power supply (nom, min, max)	12V / 8V - 36V DC
Current consumption @ 12V DC	65 mA
Signal outputs	1 relay or 3 optocouplers (see other features)
Data outputs	Yes
Interface (Standard)	RS 232
Interface (Optional)	RS 422 or tty interface (see other features)
Data protocol, format	ASCII, 8N1
Data transmission rate	till 57600 Baud
Operation temperature range	-40° - +70° Celsius
Housing (H x W x D)	120 x 120 x 90 mm
Housing protection class	IP 66
other features	alternatively RS 232 + relay, RS 232 + 3 optocouplers, tty interface or RS 422
Options	integrated male socket with female cable connector

viafalcon NET



NET 2 / NET 3

viafalcon NET connector:
Integrated male socket with
female cable connector.



viafalcon NET adapter:
For a serial connection between
viafalcon NET and PC.

Microprocessor controlled radar detector with network communication for use in traffic management systems. Its RS 485 multi-point communication supplies nearly real-time data for a traffic controller.

Every viafalcon NET is assigned with a unique network address on the network bus with up to 15 detectors. Viafalcon NET 2 (11° x 11° antenna) for mounting in an overhead position with a lane selective round radar spot is particularly suitable on dual carriageways or multi lane motorways. Viafalcon NET 3 (11° x 18° antenna) for mounting in overhead or sidefire position with an elliptic radar spot on the lane.

With a typical mounting angle of 45° the detector delivers speed, profile value for vehicle classification and inter-vehicle net time gap when a vehicle passes the beam.

Detects approaching and / or leaving vehicles (detection direction adjustable). The detection sensitivity is adjustable. A RS 485 / RS 232 network adapter for a simple PC connection is optional available.

Applications:

- Radar detector network connected to traffic management systems
- Radar detector network connected to traffic counter systems (single vehicle data, vehicle counting and classification, speed, net time gap, ...)
- Traffic jam warning, wrong direction driver warning
- Tunnel surveillance
- Traffic density and travel time calculation

Technical specification: digital FALCON NET 2 / NET 3

Sensor type	CW stereo-Doppler radar, planar module
Type of detection	Movement
Detected direction	uni- or bidirectional
Antenna	11° x 11° / 11° x 18° Patchantenna
Transmit frequency & power	24.165 GHz / 100mW (EIRP)
Detection distance range (cars)	250 m
Detected speed range	0.5 - 255 km/h
Power supply (nom, min, max)	12V, 8V - 36V DC
Current consumption @ 12V DC	65 mA
Signal outputs	-
Data outputs	Yes
Interface (Standard)	RS 485
Interface (Optional)	-
Data protocol, format	CSMA / CD, binary
Data transmission rate	till 115000 Baud
Operation temperature range	-40° - +85° Celsius
Housing (H x W x D)	120 x 120 x 90 mm
Housing protection class	IP 66
other features	Network capability, up to 15 detectors per bus line
Options	integrated male socket with female cable connector