



viafalcon PLUS 2 / PLUS 3

Radar detector · real-time speed, classification and net time gap output

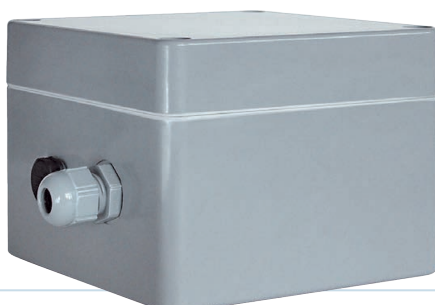
TECHNICAL FEATURES

24 GHz Doppler radar	250 m range	RS 232 data output
IP 66 housing		

Description

Microprocessor controlled radar detector for real-time data output of vehicle speed, a profile value for vehicle classification and net time gap, plus movement and speed signalisation through signal outputs. Detects approaching and / or leaving vehicles (detection direction adjustable). PLUS 2 (11° x 11° antenna) mounts overhead with a lane selective round radar spot; PLUS 3 (11° x 18° antenna) mounts overhead or sidefire with an elliptic radar spot. Tracking mode delivers speed values and sets the signal outputs according to the thresholds; counting mode at a typical 45° measurement angle delivers speed at beam entrance, the profile value and the net time gap at beam exit. Applications: traffic management systems and traffic data measurement, traffic jam warning, tunnel surveillance, traffic density and travel time calculation, numeric speed displays, counter and classifier systems, intelligent warning signs and VMS.

RADAR FEATURES	viafalcon PLUS 2	viafalcon PLUS 3
Sensor type	CW stereo-Doppler radar, planar module	CW stereo-Doppler radar, planar module
Type of detection	Movement	Movement
Detected direction	Uni- or bidirectional (adjustable)	Uni- or bidirectional (adjustable)
Antenna	11° x 11° patch antenna	11° x 18° patch antenna
Radar spot / mounting	Round, lane selective · overhead	Elliptic on the lane · overhead or sidefire
Transmit frequency and power	24.165 GHz / 100 mW (EIRP)	24.165 GHz / 100 mW (EIRP)
Detection distance range (cars)	250 m	250 m
Detected speed range	0.5 - 255 km/h	0.5 - 255 km/h
Operating modes	Tracking mode · counting mode (45°)	Tracking mode · counting mode (45°)
ELECTRICAL FEATURES	viafalcon PLUS 2	viafalcon PLUS 3
Power supply (nom / min - max)	12 V / 8 V - 36 V DC	12 V / 8 V - 36 V DC
Current consumption at 12 V DC	65 mA	65 mA
Signal outputs	1 relay or 3 optocouplers (object detected, speed threshold, profile value)	1 relay or 3 optocouplers (object detected, speed threshold, profile value)
INTERFACES & DATA	viafalcon PLUS 2	viafalcon PLUS 3
Data outputs	Yes	Yes
Interface (standard)	RS 232	RS 232
Interface (optional)	RS 422 or tty (serial current loop)	RS 422 or tty (serial current loop)
Interface variants	RS 232 + relay · RS 232 + 3 optocouplers · tty · RS 422	RS 232 + relay · RS 232 + 3 optocouplers · tty · RS 422
Data protocol, format	ASCII, 8N1	ASCII, 8N1
Data transmission rate	up to 57600 Baud	up to 57600 Baud
MECHANICAL FEATURES	viafalcon PLUS 2	viafalcon PLUS 3
Housing (H x W x D)	120 x 120 x 90 mm	120 x 120 x 90 mm
Housing protection class	IP 66	IP 66
Operating temperature range	-40 °C to +70 °C	-40 °C to +70 °C
Options	Integrated male socket with female cable connector	Integrated male socket with female cable connector



Detector housing and the optional integrated socket with cable connector.

