



viafalcon NET 2 / NET 3

Networked radar detector · RS 485 multipoint · traffic management systems

TECHNICAL FEATURES

24 GHz
Doppler radar

RS 485
network

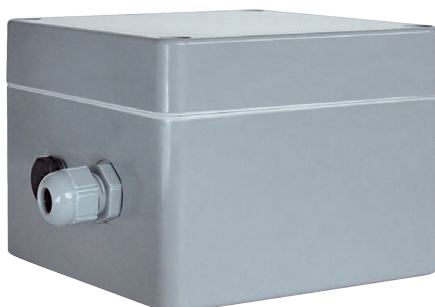
15
detectors per bus

IP 66
housing

Description

Microprocessor controlled radar detector with network communication for use in traffic management systems. Its RS 485 multipoint communication supplies nearly real-time data to a traffic controller; every detector has a unique network address on a bus with up to 15 detectors. NET 2 (11° x 11° antenna) mounts overhead with a lane selective round radar spot, particularly suitable on dual carriageways or multi lane motorways. NET 3 (11° x 18° antenna) mounts overhead or sidefire with an elliptic radar spot on the lane. At a typical mounting angle of 45° the detector delivers speed, a profile value for vehicle classification and the inter-vehicle net time gap. Applications: detector networks for traffic management and traffic counter systems, traffic jam and wrong direction driver warning, traffic density and travel time calculation, tunnel surveillance.

RADAR FEATURES	viafalcon NET 2	viafalcon NET 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
Delivered values (45° mounting)	Speed, profile value, net time gap	Speed, profile value, net time gap
ELECTRICAL FEATURES	viafalcon NET 2	viafalcon NET 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	None	None
INTERFACES & DATA	viafalcon NET 2	viafalcon NET 3
Data outputs	Yes	Yes
Interface (standard)	RS 485	RS 485
Data protocol, format	CSMA / CD, binary	CSMA / CD, binary
Data transmission rate	up to 115000 Baud	up to 115000 Baud
Network capability	Up to 15 detectors per bus line, unique address	Up to 15 detectors per bus line, unique address
PC connection	RS 485 / RS 232 network adapter (optional)	RS 485 / RS 232 network adapter (optional)
MECHANICAL FEATURES	viafalcon NET 2	viafalcon NET 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 +85 °C	-40 °C to +85 °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.

