



viafalcon LC / LC-L

Radar detector · wide detection zone · medium range · integrated vehicle counter

24 GHz
Doppler radar

28° x 28°
wide zone

RS 232
interface

IP 66
housing

TECHNICAL FEATURES

Description

Microprocessor controlled radar detector for movement and speed detection applications at medium distance range. Detects approaching and / or leaving vehicles and pedestrians (detection direction adjustable), with a wide detection zone thanks to the 28° x 28° antenna angle. Parameters are set via the serial RS232 interface or optionally by switches. If the adjustable speed threshold is exceeded, the detector sets the signal output (relay) for an adjustable hold time. A numeric vehicle counter is integrated and the detection sensitivity is adjustable. Applications: request and extension of green phases at intersections, speed activated VMS, economic replacement of inductive loops, surveillance of gates and barriers, movement detection.

RADAR FEATURES	viafalcon LC	viafalcon LC-L
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	28° x 28° patch antenna	28° x 28° patch antenna
Transmit frequency and power	24.165 GHz / 100 mW (EIRP)	24.165 GHz / 100 mW (EIRP)
Detection distance range (cars)	100 m	200 m
Detected speed range	0.5 - 255 km/h	0.5 - 255 km/h
Vehicle counter	Integrated, numeric	Integrated, numeric
ELECTRICAL FEATURES	viafalcon LC	viafalcon LC-L
Power supply (nom / min - max)	12 V / 8 V - 60 V DC	12 V / 8 V - 60 V DC
Current consumption at 12 V DC	60 mA	60 mA
Signal outputs	1 relay, LED	1 relay, LED
INTERFACES & DATA	viafalcon LC	viafalcon LC-L
Data outputs	No	No
Interface (standard)	RS 232, for parameter setting only	RS 232, for parameter setting only
Data protocol, format	ASCII, 8N1	ASCII, 8N1
Data transmission rate	9600 Baud	9600 Baud
MECHANICAL FEATURES	viafalcon LC	viafalcon LC-L
Housing (H x W x D)	83 x 81 x 60 mm	83 x 81 x 60 mm
Housing protection class	IP 66	IP 66
Operating temperature range	-40 °C to +70 °C	-40 °C to +70 °C
Mounting	Ball joint fixture for various posts · fork mounting (accessories)	Ball joint fixture for various posts · fork mounting (accessories)
Options	230 V version · manual parameter setting	230 V version · manual parameter setting



Detector housing and fork mounting.

