STALKER® Radar Stationary Speed Sensor

GENERAL SPECIFICATIONS

TYPE:	Stationary Doppler Radar Speed Sensor
OPERATING FREQUENCY:	34.7 GHz (Ka-band)
STABILITY:	±100 MHz
COMMUNICATION	RS-232 or RS-485
INTERFACE:	available as separate models
POWER	Voltage: 9 - 16 VDC for SN ST6560 and below
REQUIREMENTS:	9 - 24 VDC for SN ST6561 and above
	Current (at 12 VDC nominal)
	Transmitter on: 370 mA
	Transmitter off: 100 mA
ENVIRONMENTAL:	Operating : -30°C to +70°C, 90% relative humidity
	Non-operating: -40°C to +85°C
MECHANICAL:	Weight – 1.15 lb. (0.52 kg)
	Diameter – 2.6 in. (6.7 cm)
	Length – 4.7 in. (11.8 cm)
	Case Material – Aluminum die cast
ACCURACY:	+/- 0.3% – Speeds are rounded down to the nearest unit or tenths of a unit depending on the unit resolution setting.
AUDIO OUTPUT:	A 3.3Vpp pulse-width modulated (PWM) audio output signal is provided – must be filtered and amplified for best audio quality.
AUTO SELF-TEST:	Performed every 10 minutes while transmitting
SPEED RANGE:	Stationary low speed threshold configurable: 1 MPH to 200 MPH (1.6 to 321 KM/H) 12 MPH to 200 MPH (19 to 321 KM/H)

MICROWAVE SPECIFICATIONS

ANTENNA:	Conical horn
POLARIZATION:	Circular
3DB BEAMWIDTH:	12° ±1°
RF SOURCE:	Gunn-Effect diode
RECEIVER TYPE:	Two direct-conversion homodyne receivers using four low-noise Schottky barrier mixer diodes
POWER OUTPUT:	10 mW mininum 15 mW nominal 25 mW maximum
POWER DENSITY:	1 mW/cm ² maximum at 5 cm from lens

CONTROL and CONFIGURATION SETTINGS

	URATION SETTINGS
BASIC CONFIGURATION:	Transmitter Control
	Zone
	Unit of Measure Unit Resolution
	Faster Target Tracking
	AUX Pin Configuration
SERIAL PORT	Baud Rate
CONFIGURATION:	Output Format
Com lookanok.	Leading Zero Character
	Format D Direction Character Enable (RS-232
	only)
	Zeros After Target (RS-232 only)
	Message Period
	Format D Update on Change Only (RS-232
	only)
	Format D Zero Report (RS-232 only)
	Polled Modes D0-D4 (RS-232 only)
TARGET RECOGNITION:	Opposite Lane/Stationary Sensitivity
	Fine Sensitivity Adjust
	Sensitivity Hysteresis Low Sensitivity
	Target Strength Sensitivity
	Target Acquisition Quality
	Target Loss Quality
TARGET FILTERING:	Stationary Low Cutoff
TARGETTIETERING.	Spurious Speed Filter
	Max AGC Gain
	Min AGC Gain
	Current AGC Gain
SPEED PRESENTATION:	Cosine 1 Angle
	Cosine 2 Angle
	Holdover Delay
LOCKING TARGETS:	Lock Option
	Faster Locking Enable
	Strongest Lock
	Fast Lock
SPEED ALARM:	Alarm Speed Threshold
AUDIO:	Doppler Audio Volume
	Aud 0 Enable
	Variable Doppler Loudness
	Squelch
TY DOWED CAVE	Beep Volume
TX POWER SAVE:	TX On Time
	TX Off Time Keep TX On with Target
	Max TX On Time
TESTING:	Fork Enable
TESTING.	Auto Test Period
	Auto Test Mode
	Enhanced Test
SYSTEM:	Get Product ID
0.01 LW.	Get Product ID Get Product Type
	Get Floddet Type Get Software Version
	Speed Sensor Address (RS-485 only)
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