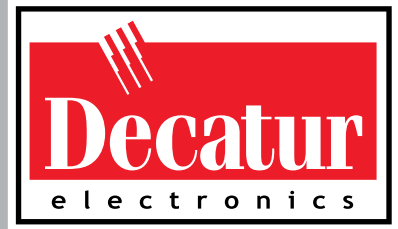


Technical Specifications

System Interface 3L (SI-3L)
Special Application Doppler Speed Sensor



www.DecaturElectronics.com
 Phone: 800.428.4315

General Specifications	
Type	Special Application Radar
Accuracy	100% accurate with a resolution of ± 0.10 unit of measure (± 0.10 mph, ± 0.10 km/h)
Ambient Operating Temperature	-22° F to +158° F (-30° C to +70° C)
Available Frequencies	K-Band
Communications	RS232 via 6-pin waterproof connector. Parameters can be changed via serial port
Controls	Adjustable through software.
Cosign - Horizontal	0 - 45° (Default = 0)
Cosign - Vertical	0 - 45° (Default = 0)
Data Format (Default)	<D> [SSS] <cr> D = Direction, S = Speed, cr = Carriage Return (Note: Various other protocols can be selected)
Data Hold Time	100 to 9999 ms (Default is 2000 ms)
Data Rate	1200, 2400, 9600, 19200, 38400, 57600 & 115200 baud rates. (Default is 9600 baud)
Detection Range	3,000 ft maximum (0.914 km) (Default is 1,500 ft (0.46 km))
Directionality	Towards, Away, or Both Directions (Default is Towards)
Features	DSP, 32 bit processing.
Finish	Gray
Frame	ABS Polycarbonate Blend
Maximum Humidity	100% (Note: Unit is weather proof, not water proof)
Ports	16 selectable communication ports. (Default is Com 1)
Power	+12 VDC nominal

General Specifications - continued	
Speed Measurements	mph, km/h, feet-per-second, & meters-per-second (Default is mph)
Speed Range	5 - 150 mph (8 - 241 km/h) (Min/Max user selectable)
Standard Warranty	One-year parts & labor
Target Acquisition Time	20 ms

Mechanical	
Height	6.125" (15.5575 cm)
Width	6.5" (16.51 cm)
Depth	1.5" (3.81 cm)
Weight	1.75 lbs (0.793 kg)

Electrical	
Power Requirements	+10.8 VDC to +24 VDC
Low Voltage Shutdown	+10.8 VDC
Minimum Current Draw	0.120 ampere
Nominal Current Draw	0.180 ampere @ 12 VDC
Surge Current Requirements	1 ampere

Microwave	
Type	K-band
FCC Identifier	HTRSI-3L
Frequency	24.075 GHz ~ 24.175 GHz
Beam Width	6.5° x 5.5° at the -3dB point
Polarization	Linear
Power Density	114.3 dBuV/m at 3 metres
Power Output (EIRP)	+20 dBm
Horizontal Sidelobe Suppression	15 dB typical
Vertical Sidelobe Suppression	15 dB typical