



**HOUSTON
RADAR**

SS300 OEM Doppler Speed Radar

Houston Radar's SS300 Doppler sign activation/speed sensor/Doppler Radar is a state of the art **milli-power** Digital Signal Processing (DSP) based K-band radar for the sign activation and traffic calming markets. It is the premier product in its class available in the world.

Features and Benefits

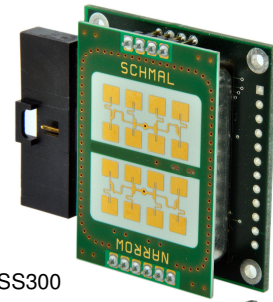
- World's smallest and lowest power usage OEM K-Band Doppler radar at 0.10 Watts, 6X lower than our DR500S radar and up to 25X lower than some other industry offerings
- 300+ feet (90+m) typical pickup range for a compact vehicle
- FCC pre-approved with CE mark
- Fully configurable via RS232 serial port for all settings
- Simple rotary switch or thumbwheel input possible to set threshold
- Wide input operating range allows solar operation
- 1.75Wx1.65Hx0.5D in (44x42x12 mm) open frame ultra-thin profile
- 1.9Wx2.1Hx0.9D in (4.5x4.8x2.4 cm) weatherproof enclosure option
- Firmware "boot loader" allows for field upgrading of firmware
- Two LED Lamp outputs to drive 1.8W LED lamps with dimming
- One photo sensor input to sense ambient light to dim LED lamps
- 100% self-test feature built-in including self power usage
- IO expansion board w/ DB9 connector, rotary s/w and isolated high power output available

DB9 Pin #	Function
1	GND
2	Do not connect
3	Reserved. Do not connect
4	Reserved. Do not connect
5	Reserved. Do not connect
6	Reserved. Do not connect
7	Trigger "open drain" output #1
8	Trigger "open drain" output #2
9	RS232 Transmit from radar
10	RS232 Receive into radar
11	VCC
12	GND



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All specifications are subject to change. Pickup distance is typical and will vary with road conditions and targets.



Open Frame SS300



Weatherproof SS300

Specifications & Recommended Operating Conditions	
Specification	Recommended Condition
Vcc	9.5 to 18VDC (21V max)
Icc@12VDC	9 mA (0.1 Watts)
Radar RF out	5 mW maximum
Radar f _{center}	24.125GHz or 24.200 GHz
Operating °F (°C)	-40 (-40) min to 185 (85) max
Pickup Distance	300+ feet (90+ m) in most cases
Beam Angle	38°x45°
Beam Polarization	Linear
Lamp 1 & 2 out	135 mA max each up to 60VDC
Lamp dimming	240 Hz PWM from 5 to 100 %
LDR light input	0 to 3.3V input
FCC ID	TIASS300
CE Mark	Yes
Dimensions	Open frame 1.75Wx1.7Hx0.5D" (44x42x12 mm)
	Boxed 1.9Wx2.1Hx0.9D" (4.5x4.8x2.4cm)
Weight	0.05Kg (0.1 lbs) approx

Outline Details (dimensions in mm [inches])

