

SMF-24051212-01



Motion Detection Doppler Sensor Head
Single channel, 12 degrees Circular Horn

RF Products Group

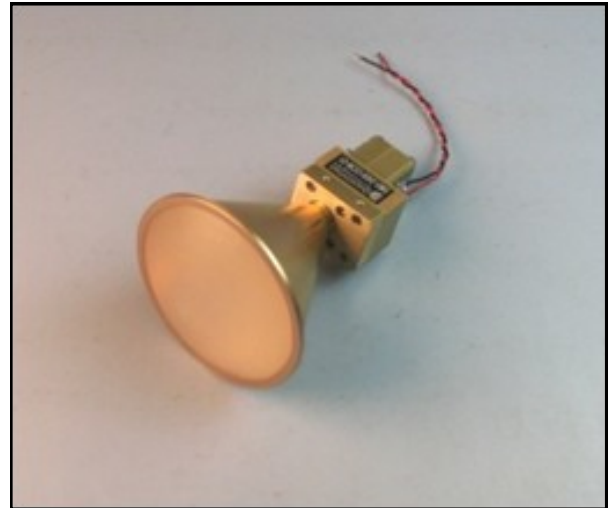
Features

- Basic sensitivity
- High reliability
- Low harmonic emission
- Compact
- Low cost and volume production

Applications

- Speed measurement
- Traffic signal actuator
- Automatic illumination system
- Automatic door opener
- Intrusion alarm
- Contactless vibration measurement

Sensor



Electrical Specifications: $T_c = 25 \pm 5^\circ\text{C}$ (Room Ambient)

Parameter	Min	Typ	Max	Units
RF Frequency	24.15			GHz
Transmitter Output Power	+5			dBm
Receiver conversion loss		12		dB
IF bandwidth	DC to 100			MHz
Antenna	Circular lens-corrected horn; 3 dB beamwidth = 12 degrees			
Antenna side lobe level			-20	dB
DC bias		5.5 V / 200 mA		
Operation temperature	-30 to +60			$^\circ\text{C}$
Frequency drifting			± 40	MHz
Speed measuring error			± 0.2	km/h
Measurable distance	200			m
Response time			25	ms

Capability

- Up to 500 m sensing distance
- Speed detection only