



MSP24013MB



Sector panel on adjustable bracket



WISP4959018MBV

Field Adjustable Sector Antennas

PCTEL's WISP and MSP series sector panels cover the 2.4 GHz ISM band and provides field adjustable horizontal beamwidths of 45°, 60°, 90° or 120°. The unique design allows a system installer to stock a single antenna and field adjust it to the desired beamwidth, making it useful for wireless broadband applications where coverage of a geographical sector is desired. The panels can be ordered with fixed beamwidths and are ideal for use in apartment complexes, offices, medical facilities, schools, industrial parks, and shopping centers.

Features

- Adjustable multiple beamwidth sectors. A single antenna can be utilized to cover several geographical sectors. Great for use in place of an obstructed wall mounted omni.
- Three sectors with three data radios can be installed as an array for omnidirectional coverage. Provides a stronger, more focused signal than that of a standard omnidirectional antenna.
- Industry leading front-to-back ratios. Ensures that the radiated energy is focused towards its target, and not to the back or sides of the antenna.

Technical Data

General Specifications: 2.4 GHz sector panel antennas
Maximum Power Input: 10 watts (WISP model) 50 watts (MSP models)
Polarization: Vertical
Nominal Impedance: 50 ohms
VSWR: < 1.7:1 (WISP model) < 1.5:1 (MSP models)
Radome Material: Off-white/white ASA plastic with UV resistance
Lighting Protection: DC grounded
Connector Options*: Type N female
Mounting Method: Adjustable pipe mount (included) ± 15° of uptilt or downtilt (WISP model) Adjustable stainless steel bracket, ± 11° of uptilt or downtilt (MSP models) Pipe diameter: 0.75 thru 2.4"

RF/Electrical Specifications

Model	Frequency Range	Nominal Gain	Horizontal Plane Beamwidth	E-Plane Beamwidth	Front-to-Back Ratio	Typical Cross Poll Discrimination
WISP4959018MBV	4.9-6.0 GHz	18 dBi @ 45° 16 dBi @ 60° 15 dBi @ 90° 14 dBi @ 120°	120°, 90°, 60° and 45°	8°	> 32 dB	> 20 dB
MSP24013MB	2.4-2.5 GHz	13 dB @ 120° 14 dBi @ 90° 16 dBi @ 60° 17 dBi @ 45°	120°, 90°, 60° and 45°	16°	> 32 dB @ 120° > 42 dB @ 90° > 42 dB @ 60° > 42 dB @ 45°	(all models) 270°-0°, 0°-90° = -20 dB 235°-270°, 90°-135° = -28 dB
MSP24013-120	2.4-2.5 GHz	13 dBi	120°	16°	> 32 dB	180°-235°, 135°-180° = -32 dB

Mechanical Specifications

Model	Dimensions	Weight (Mass)	Temperature Range	Rated Wind Velocity	Lateral Thrust at Rated Wind
WISP4959018MBV	24" L x 6" W x 3" D (609 x 152 x 76 mm)	4.5 lbs (2.1 kg)	-30°C to +75°C	125 mph (200 km/h)	60 lbs (no flaps), 120 lbs (with flaps)
MSP24013MB	21.5" L x 6.5" W x 2.8" D (546 x 165 x 72 mm)	4 lbs (1.8 kg)	-30°C to +75°C	125 mph (200 km/h)	43 lbs (19.5 kg)
MSP24013-120	21.5" L x 6.5" W x 2.8" D (546 x 165 x 72 mm)	4 lbs (1.8 kg)	-30°C to +75°C	125 mph (200 km/h)	43 lbs (19.5 kg)



* Other connector options available.