

High Performance Doppler Sensor (HPDS)

HPDS is based on the NDID-2001 which was developed by Dr. Joshua Nevat, a well known specialist in Radar and Communication Systems. The NDID-2001 represents a family of low cost, low false alarm rate intrusion detectors. A microprocessor is used for signal processing and system management. The sensor can be installed statically, or can scan a perimeter using the Programmable Scanning Option (PSO) package. Another optional package is the Data Communication Option (DCO) which enables remote setting of system parameters.

Dr. Frucht Systems Ltd. acquired the production rights and subsequently, developed the NDID-2001, enhanced its capabilities and integrated it in the 3-Track and in the Dual Tech Seismic Virtual Fence and in the Dual Tech Cross Line Detector.



Range of Detection :	Walking person detected at range of 10 to 250m. Detection range depends on the height and angle of inclination at which the sensor is installed, and on the setting of sensor's sensitivity.
Radial Speeds:	0.2 to 4m/sec(other speeds can be present)
Standard detection signal:	TTL/dry contact/other (upon request)
Microwave Source and Antenna:	
Mode of Operation:	CW Doppler
Frequency:	23.8 to 24.5 GHz
Beam:	Conical, 12
Polarization:	Circular
Output Power:	15mW
Maximal Aperture Power Density:	<5mW/cm ²
Operating Voltage:	10.8 to 16.5 VDC
Power Consumption:	280mA @ 12 VDC
Operating Environment:	
Temperature:	-30° to +60°C
Humidity:	90% @ 37°C
Dimensions:	
Cylindrical, Diameter:	80mm
Length:	140mm
Weight:	<650gr