



FEATURES

Far-field panel antenna designed for loss prevention and transition zone applications

- Operating frequency: 900-930 MHz
- Two radiating elements
- Far-field gain: 8.5 dBiL
- Beamwidth: 40° x 90°
- VSWR: Less than 1.3:1 across the operating frequency range

Applications

- UHF RFID portals for loss prevention
- Logistics and distribution
- Transition portals
- Goods movement control
- UHF RFID portals in general
- Retail stores, warehouses, hospitals, industry, libraries, schools, etc.

The Identix 85DL4090 is a far-field UHF RFID antenna specifically designed for transition zones, reading of difficult-to-detect items, and retail loss prevention applications, such as Electronic Article Surveillance (EAS) systems.

Its fan-shaped radiation pattern is ideal for creating controlled reading zones, making it suitable for locations such as store entrances, corridors, checkout areas, and loading docks.

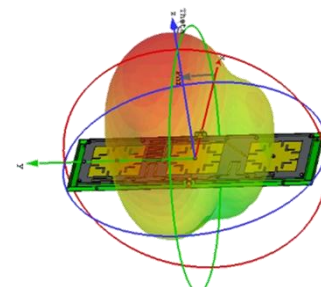
The antenna features a radiation lobe with a 40° aperture in the horizontal plane and a 90° aperture in the vertical plane, along with a 15° horizontal inclination, optimizing coverage in specific areas and reducing unwanted readings outside the target zone.

Featuring linear polarization, high gain, and two radiating elements, the Identix 85DL4090 ensures reliable tag reading performance, even when tags are unfavorably oriented.

Its modern, compact, and lightweight design facilitates easy installation and allows for aesthetic and discreet integration into various environments, including retail, logistics, industry, and asset security.

Technical Specifications

- Operating frequency: 900 MHz to 930 MHz
- Input impedance: 50 Ohms
- Polarization: Dual Linear
- Far-field gain: 8.5 dBiL
- Beamwidth: 40° (horizontal) x 90° (vertical) with 15° electrical downtilt (horizontal)
- VSWR: Less than 1.4:1 across the operating frequency range
- Front-to-back ratio: 18 dB
- Maximum input power: 20 W
- Connector: 02 x SMA female
- Dimensions: 420 mm x 140 mm x 19 mm
- Base: Painted aluminum
- Radome: 1.6 mm PETG plastic
- Protection rating: IP54
- Weight: 1 kg



Far-Field Directivity

For more information, visit
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