

AA3233-002

Subway Rail Antenna with Integrated Check Tag

TransCore's AA3233-002 Subway Rail Antenna is a rugged, reliable 915 MHz antenna specifically designed for mounting between track rails.

Constructed for high shock and vibration environments, the rugged weather-resistant enclosure provides protection from harsh environmental conditions encountered in railroad applications.

The AA3233-002 comes with an integrated check tag. When paired with TransCore's AT5000-series transportation tags, the AA3233-002 Heavy Rail Antenna can read rail transponders at speeds up to 75 mph (120 km/h) and at close distances of approximately 18 to 35 inches (45 cm to 90 cm).



Features

- ▶ Constructed for high shock and vibration environments
- ▶ Integrated Check Tag
- ▶ Corrosion and chemical resistant

Applications

- ▶ Train positioning
- ▶ Rail Automatic Equipment Identification (AEI)

AA3233-002 Subway Rail Antenna

COMMUNICATIONS

Frequency Range

902 to 928 MHz

Gain (peak, near field)

10 dBi

Polarization

Linear

VSWR

<2.0:1

Impedance

50 ohms nominal

Beamwidth

E-Plane: 33°

H-Plane: 80°

HARDWARE FEATURES

Connectors

N-type female and jam nut connectors inside waterproof box

PHYSICAL

Dimensions

Size: 26.9 x 11.3 x 4.9 in (68.8 x 28.8 x 12.5 cm)

Overall Length: 34 in (85.4 cm)

Junction Box Dimensions

Size: 6.1 x 5.3 x 2.2 in (15.5 x 13.5 x 5.6 cm) not including mounting flange

Enclosure

Weather-resistant Radome

ENVIRONMENTAL

Operating Air Temperature

-40°F to +167°F (-40°C to 75°C)

Humidity

100% condensing

Vibration Tolerance

4 G_{RMS} 5 to 500 Hz, flat random spectrum

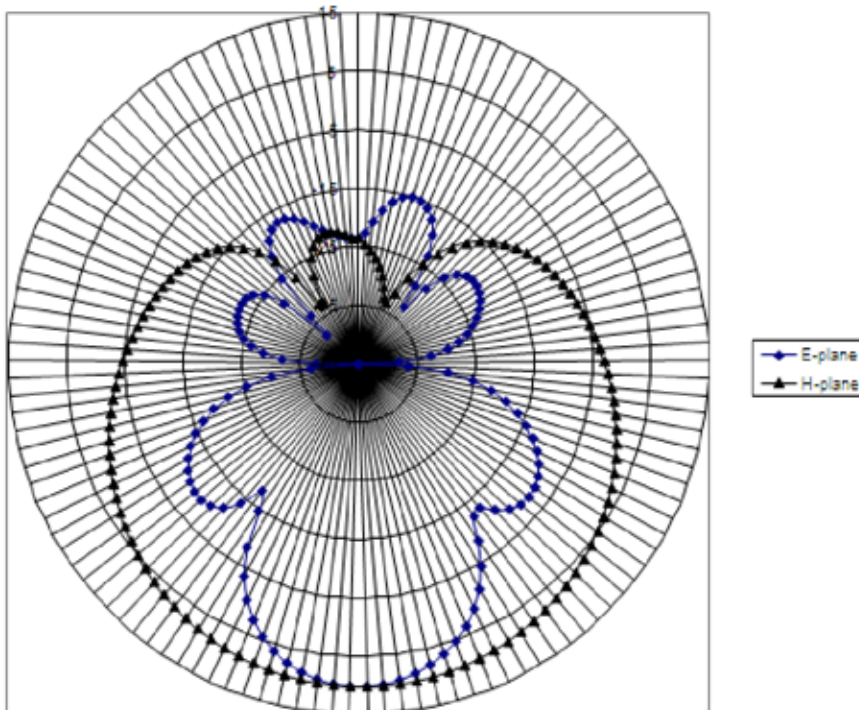
Shock Tolerance

10 G zero to peak x 7 ms

Isolated from 100 G, high-frequency, wheel shocks

MODEL PART NUMBERS

12-3233-002 Subway Rail Antenna with Integrated Check Tag



Antenna Field Pattern

For more information:

Sales Support

800.923.4824

Technical Support

505.856.8007

transcore.com

