

AA3236 870MHz

Heavy Rail Antenna

TransCore's AA3236 870MHz Heavy Rail Antenna is a rugged, reliable antenna specifically designed for mounting to train undercarriages.

Constructed to meet EN body and bogie mount standards, the IP65/67 rugged weatherproof enclosure provides protection from harsh environmental conditions encountered in railroad applications. The AA3236 Heavy Rail Antenna is designed to meet ETSI 301 489-1 and -3 requirements for external antennas.

When paired with TransCore's AI1422E 870MHz reader, the AA3236 Heavy Rail Antenna can read TransCore's suite of 870MHz rail transponders at speeds up to 150km/hr.

The AA3236 includes a strain relief kit to provide better coaxial cable durability when used in bogie mount applications.



Features

- ▶ Constructed to meet EN body and bogie mount standards
- ▶ IP65/67 rugged weatherproof enclosure
- ▶ Corrosion and chemical resistant
- ▶ Strain relief kit for high vibration applications

Applications

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

AA3236 870MHz Heavy Rail Antenna

COMMUNICATIONS

Frequency Range
865 to 870 MHz

Gain (peak, near field)
7 dBi

Polarization
Linear, parallel with longer side

VSWR
1.5 typical
1.8 maximum

Impedance
50 ohms nominal

Beamwidth
E-Plane: 60°
H-Plane: 87°

HARDWARE FEATURES

Connectors
Antenna: right angle N-type female

PHYSICAL

Dimensions
Size: 68.2 x 28.6 x 8.7cm (26.9 x 11.3 x 3.4in)

Weight: 7.64 kg (16.4 lbs)

Enclosure
IP65/67

ENVIRONMENTAL

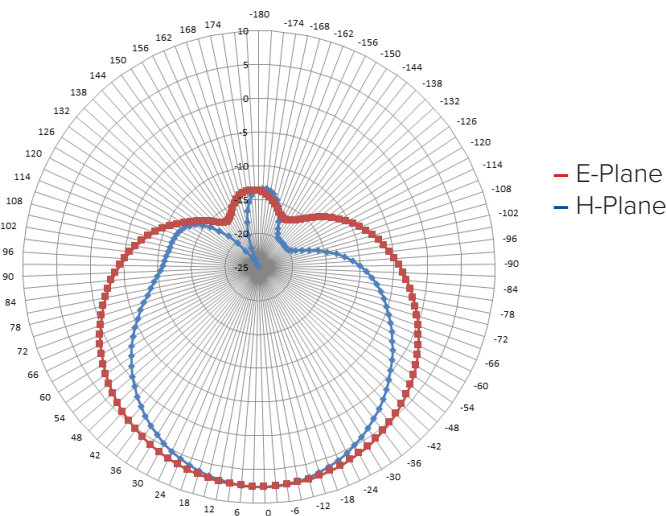
Operating Air Temperature
-40°C to +80°C (-40°F to +176°F)

Humidity
EN 60068-2-30 Variant 1

Vibration Tolerance
AREMA Part 11.5.1 Class G & H
EN 61373:2010 Category 1B & 2

4 G_{RMS} 5 to 500 Hz

Shock Tolerance
AREMA Part 11.5.1 Class G & H
EN 61373:2010 Category 1B & 2
30 G peak x 18 ms



Antenna Field Pattern

For more information:

Sales Support
800.923.4824

Technical Support
505.856.8007

transcore.com

