

AA3236 870 MHz

Heavy Rail Antenna

TransCore's AA3236 870 MHz 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 IP65/68 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 A11422E 870 MHz reader, the AA3236 Heavy Rail Antenna can read TransCore's suite of 870 MHz rail transponders at speeds up to 150 km/h.

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
- ▶ IP65/68 rugged weatherproof enclosure
- ▶ Corrosion and chemical resistant
- ▶ Strain relief kit for high vibration applications

Applications

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

AA3236 870 MHz 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 8.7 cm (26.9 x 11.3 x 3.4 in)

Weight: 7.64 kg (16.4 lbs)

Enclosure
IP65/68 at 1.1 m for 60 minutes

ENVIRONMENTAL

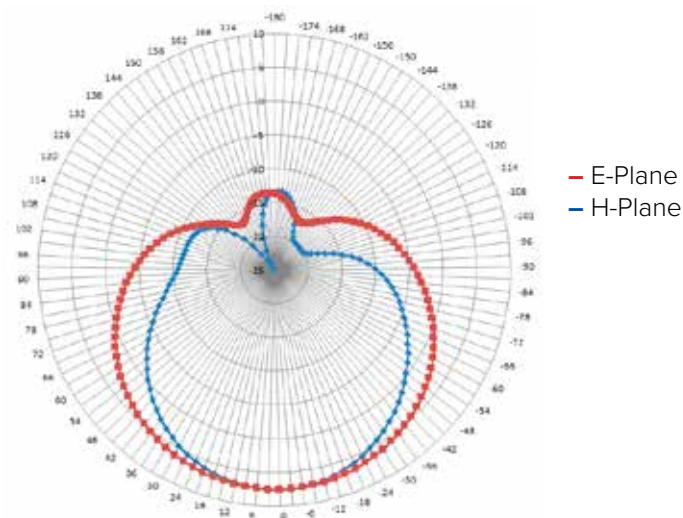
Operating Air Temperature
-40°C to +80°C (-40°F to +176°F)

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

