Ha-VIS RF-ANT-WR24





Ha-VIS RF-ANT-WR24 Panar RFID antenna

Advantages

- · Designed for the harshest environments
- Circular UHF antenna
- · Wide range antenna
- · High temperature version available
- Railway version (under train installation) available

General description

This antenna family is designed to fulfill the toughest application requirements. High temperature, harsh industrial environment or even railway applications are in the focus of this antenna familiy.

It is very robust in design and has a wide opening angel up to 70°. Read ranges from 1 to 12 meters could be fulfilled in combination with HARTING UHF RFID readers and passive UHF transponders.

Identification Part number Drawing Dimensions in mm

Ha-VIS RF-ANT-WR24

Ha-VIS RF-ANT-WR24-i-EU (for harsh industrial applications)

Ha-VIS RF-ANT-WR24-r-EU (for under the train applications)

Ha-VIS RF-ANT-WR24-t-EU (for high temperature applications in industrial or railway applications)

Ha-VIS RF-ANT-WR24-i-US

Ha-VIS RF-ANT-WR24-r-US

Ha-VIS RF-ANT-WR24-t-US

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At this position (around 50 mm to 80 mm distance to the antenna itself) an addition cable fixation is mandatory, to protect the cable - antenna connection against vibrations Use always 4 mounting holes Use these two mounting holes (6.4 mm) only in combination

with holes 1 + 2

All data given are in line with the actual state of art and therefore not binding. HARTING reserves the right to modify designs without giving the relevant reasons.



Technical characteristics

Electrical properties

Frequency range EU: 865 – 868 MHz

US: 902 - 928 MHz

Impedance 50 Ohm

Polarization Circular (right)

Gain 8 dBic (WR24-r, WR24-t)

(EU: 868 MHz, US: 915 MHz) 9 dBic (WR24-i)

Opening angle 70° (WR24-r, WR24-t)

67° (WR24-i)

Max. power (FCC 15.247) 4 W EIRP

Connection WR24-i / WR24-t: N socket (female)

WR24-r: direct coax cable (3 m) with SMA connector

Down tilt ≤ 10°

Mechanical properties

Dimension (W x H x D) 243 x 240 x 42 mm

Weight 2.4 kg (WR24-r)

1.1 kg (WR24-t)

Degree of protection WR24-i: IP54

WR24-r: IP67 / IK08

WR24-t: IP64

Installation Four 6.4 mm drill holes (ideal for M5/M6 hexagon head screw)

Operating temperature WR24-i: -45 °C ... +65 °C

WR24-r: -40 °C ... +85 °C WR24-t: -45 °C ... +150 °C

Railway (rolling stock)

Fire protection EN 45 545-2 (WR24-r, WR24-t)

Shock EN 61 373 1B & 2 (WR24-r, WR24-t)

Vibration EN 61 373 1B & 2 (WR24-r, WR24-t)

Salt mist DIN EN 50 467:2012-10 (WR24-r, WR24-t)

DIN EN 60 512-11-6:03 test 11f (WR24-r, WR24-t)

Ozone DIN EN 50 467:2012-10, DIN ISO 1431-1:2011 method B (WR24-r, WR24-t)



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