

Datasheet

Tree to Air Bridge

Part No: 100451



About the product

The LOXONE Tree to Air Bridge enables the integration of **numerous devices** that are equipped with the **LOXONE Air radio technology**, or as an **extension of the radio coverage** of LOXONE Air. The **connection** is made via the **Tree interface**.

Features:

- Decentralized installation, for example in any flush-mounted box
- Flexible installation on any Tree branch
- Supports up to 128 LOXONE Air devices
- Integrated Air antenna

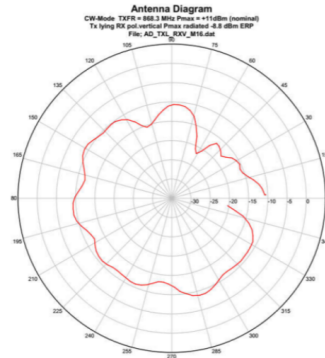
Electrical Specifications

Supply voltage	12 ... 28 VDC
Power consumption	typ. 0.17 W, max. 0.25 W
Power loss at max. load	max. 0.25W

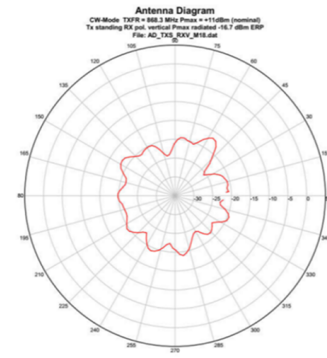
Radiation Pattern

Radiation pattern

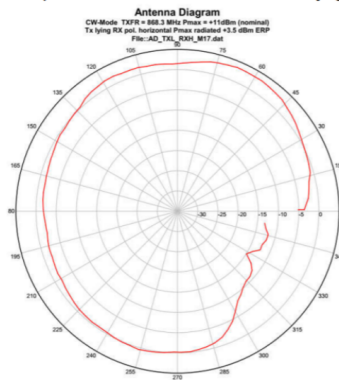
Vertical polarisation Prad max = -8.8 dBm ERP TX lying



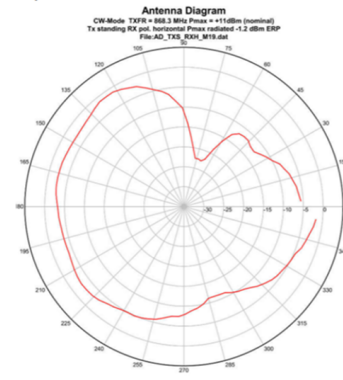
Vertical polarisation Prad max = -16.7 dBm ERP TX standing



Horizontal polarisation Prad max = +3.5 dBm ERP TX lying



Horizontal polarisation Prad max = -1.2 dBm ERP TX standing



Ambient Conditions

Temperature

-40 ... 70°C / -40 ... 158°F

Humidity

max. 95% r.H. (non condensing)

Interfaces

Loxone Tree

connection with LOXONE Miniserver / Tree Extension

Loxone Air

868MHz (SRD Band Europe), 4 channels available
 max. Power 15.1mW e.r.p.
 915MHz (ISM Band Region 2), 10 channels available
 max. Power 13.2mW

Connection Terminals

Wire cross-section

0.25 ... 0.8 mm² / AWG 23 ... 18

Stripping length

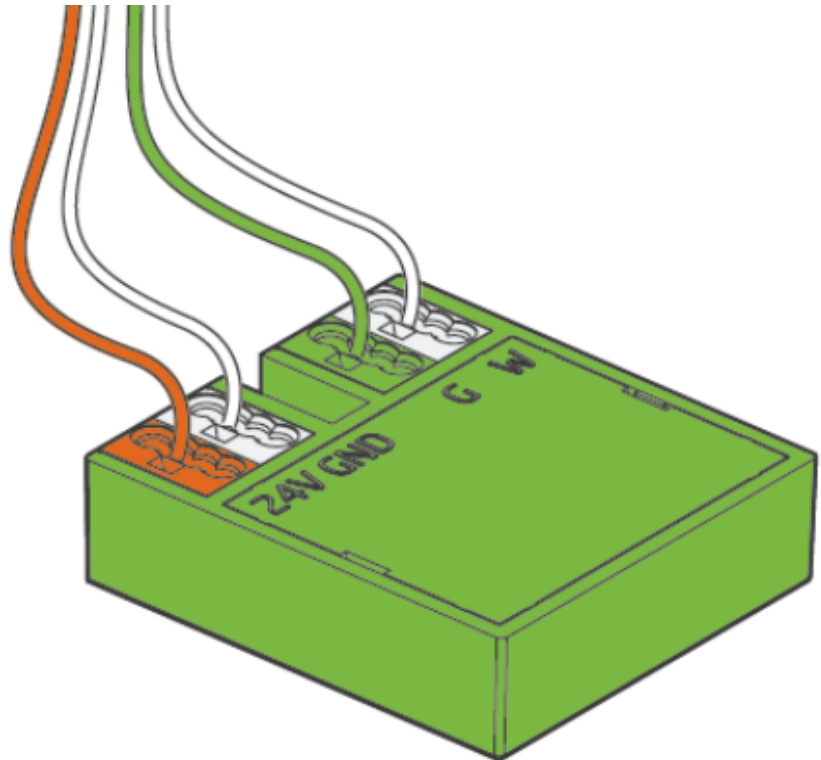
5 mm / 0.2"

Temperature resistance

-40 ... 105°C / -40 ... 221°F

Connection Diagram

Connection Diagram



Product Characteristics

Colours Green: RAL 6018

Finish Matte

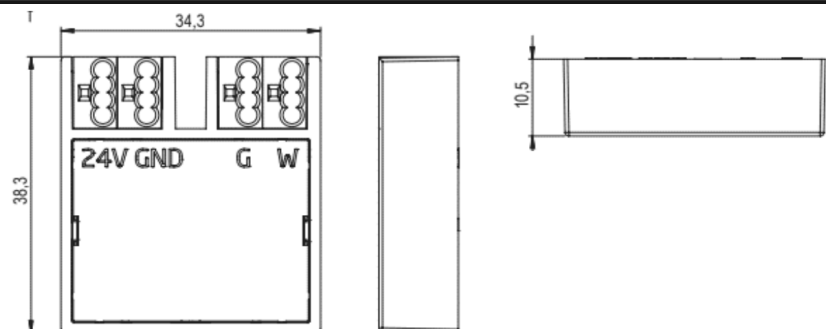
Weight & Dimensions

Net weight 63g

Total weight 74 g

Product dimensions 38.3 x 34.3 x 10.5 mm / 1.50 x 1.35 x 0.41" (L x W x H)

Product dimensions drawing



Pack size 79 x 79 x 41 mm / 3.11 x 3.11 x 1.61" (L x W x H)

Certifications & Standards

Safety class IP20

Certifications



Installation must be carried out by a qualified electrician in accordance with the relevant regulations.

Published by

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Datenblatt

Tree to Air Bridge

Part No: 100451



Über das Produkt

Die LOXONE Tree to Air Bridge ermöglicht das Einbinden **zahlreicher Geräte**, die mit der **LOXONE Air Funktechnologie ausgestattet** sind, oder als **Erweiterung der Funkabdeckung** von LOXONE Air. Die **Anbindung** erfolgt über die **Tree Schnittstelle**.

Features:

- Dezentraler Einbau beispielsweise in jeder Unterputzdose
- Flexible Installation an jedem Tree Ast
- Unterstützt bis zu 128 LOXONE Air Geräte
- Integrierte Air Antenne

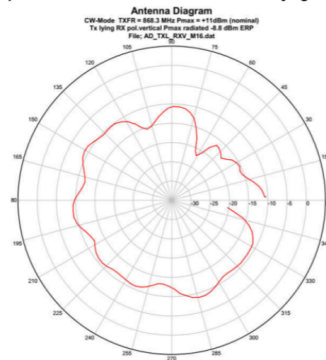
Elektrische Spezifikationen

Versorgungsspannung	12 ... 28 VDC
Leistungsaufnahme	typ. 0,17 W, max. 0,25 W
Verlustleistung bei max. Last	max. 0.25W

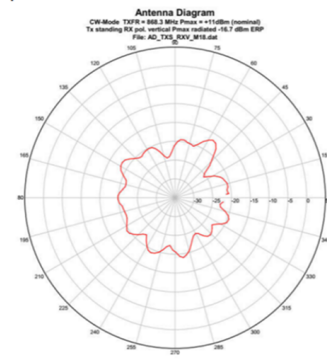
Strahlungsmuster

Strahlungsmuster

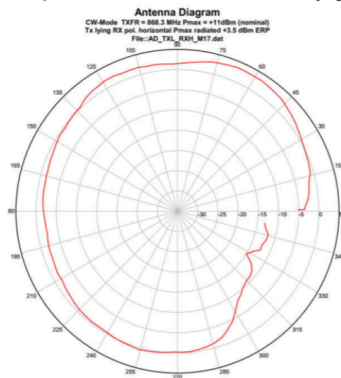
Vertical polarisation Prad max = -8.8 dBm ERP TX lying



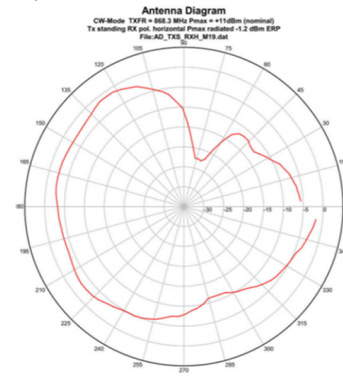
Vertical polarisation Prad max = -16.7 dBm ERP TX standing



Horizontal polarisation Prad max = +3.5 dBm ERP TX lying



Horizontal polarisation Prad max = -1.2 dBm ERP TX standing



Umgebungsbedingungen

Temperatur

-40 ... 70°C / -40 ... 158°F

Luftfeuchtigkeit

max. 95% r.H. (nicht kondensierend)

Schnittstellen

Loxone Tree

Verbindung mit LOXONE Miniserver / Tree Extension

Loxone Air

868MHz (SRD Band Europa), 4 Kanäle wählbar
 max. Sendeleistung 15.1mW e.r.p.
 915MHz (ISM Band Region 2), 10 Kanäle wählbar
 max. Sendeleistung 13.2mW

Anschlussklemmen

Leiterquerschnitt

0,25 ... 0,8 mm² / AWG 23 ... 18

Abisolierlänge

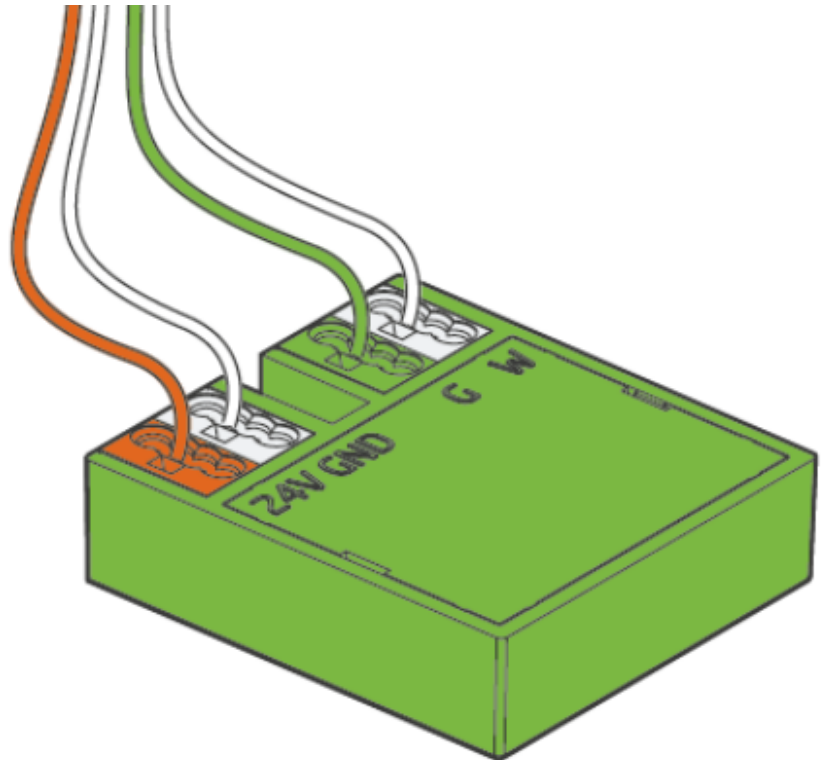
5 mm / 0,2"

Temperaturbeständigkeit

-40 ... 105°C / -40 ... 221°F

Anschlussplan

Anschlussplan



Produkteigenschaften

Farbe Grün: RAL 6018

Glanzgrad Matt

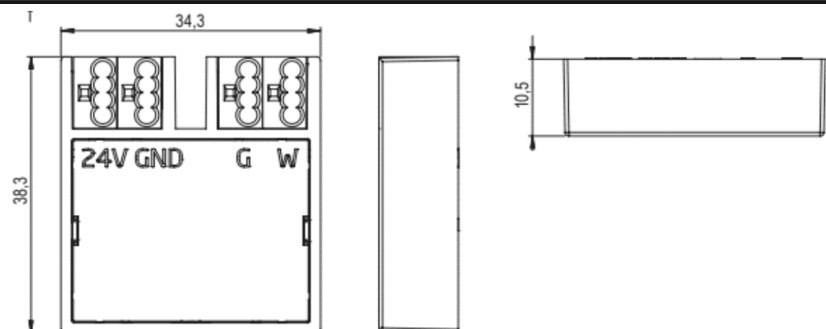
Gewicht & Abmessungen

Nettogewicht 63g

Bruttogewicht 74 g

Produktmaße 38,3 x 34,3 x 10,5 mm / 1,50 x 1,35 x 0,41" (L x B x H)

Produktmaßzeichnung



Packmaß 79 x 79 x 41 mm / 3,11 x 3,11 x 1,61" (L x B x H)

Zertifizierungen & Standards

Schutzklasse

IP20

Zertifizierungen



Die Installation muss von einer qualifizierten Elektrofachkraft gemäß den einschlägigen Vorschriften durchgeführt werden.

Veröffentlicht von

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