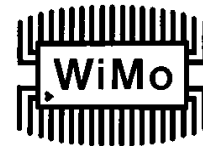


CK-868LIN

868 MHz linear patch antenna

18760.LIN



antenna shown with optional mast bracket!

This antenna covers both EU and USA RFID bands. The antenna has been designed to be waterproof and is easy to install. Polarisation is linear (H or V). VSWR is typically less than 1.2:1, giving a return loss better than 20dB.

Features:

- 860 - 960 MHz.
- Extremely low VSWR return loss.
- linear polarised.
- Wall mountable.

Application:

- RFID readers
- GSM

Best.Nr. / part no.:

18760.LIN Antenne für Wandmontage/
antenna with wall mount

18626.H optionale Masthalterung /
optional mast bracket



WiMo Antennen und Elektronik GmbH

Am Gäxwald 14, D-76863 Herxheim Tel. (07276) 9668-0 FAX 9668-11

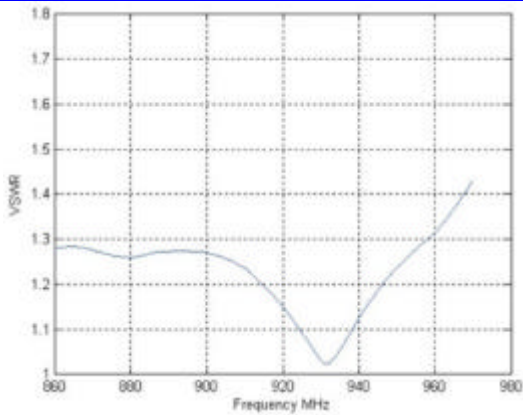
<http://www.wimo.com>

e-mail: info@wimo.com

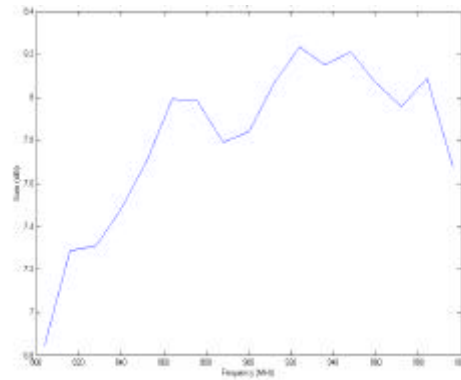
Technische Daten / Technical data

Electrical:		Environmental:	
Gain (max)	8 dBi (+-0.5 dB)	Wind Loading	160 km/h
Gain (min over the band)	7 dBi (+-0.5 dB)	Temperature Range	- 20° C to +70° C
Frequency	860 – 970 MHz	Shock	40G at 10 msec
VSWR	< 1.6:1	Thermal Shock	- 20° C to +70° C : 10 cycles
Feed power handling	10 W	Water Ingress Rating	IP66 (NEMA 4X)
E-plane 3 dB beamwidth	60° (± 5°)		
H-plane 3 dB beamwidth	74° (± 5°)	Mechanical:	
Front to back (F/B ratio)	15 dB (± 3 dB)	Dimensions (l x w x d)	245 mm x 235 mm x 40 mm
Nominal input impedance	50 Ohm	Weight	470 g
Polarisation	Linear	Mounting	wall mount optional mast bracket
Connector	0.3 m RG 58 with N(f) connector	p/n	18760.LIN

VSWR and Gain Pattern:

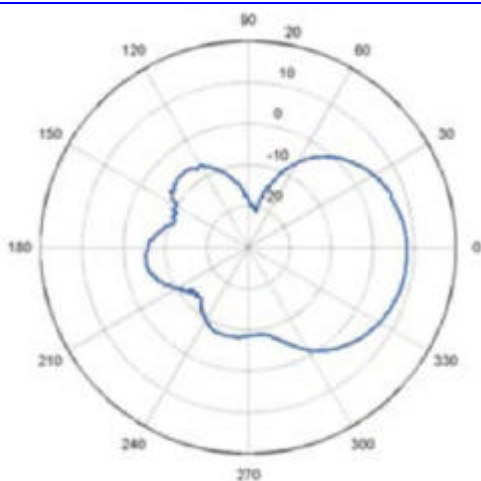


VSWR

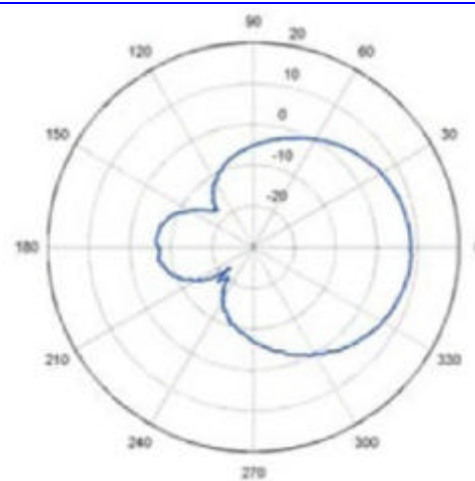


Gain

Radiation Patterns



E-Plane



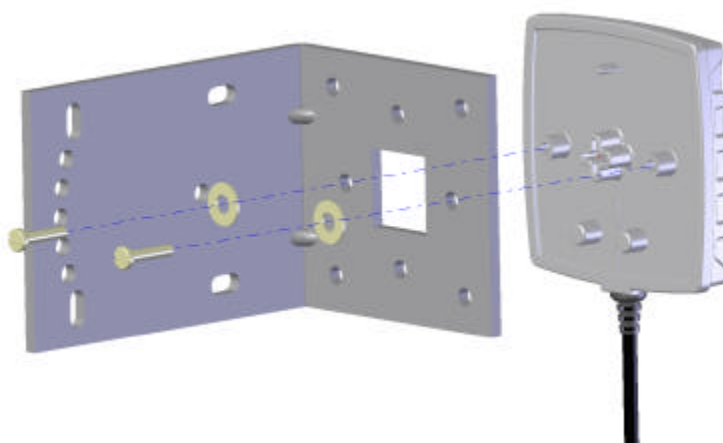
H-Plane

Montage mit optionaler Mastschelle

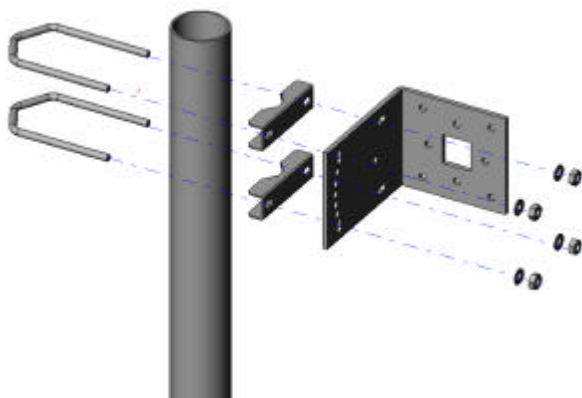
- Winkel mit zwei Blechschrauben an die Antennenschrauben (im Bild für Vertikalpolarisation gezeigt).
- Winkel mit U-Bügel und Gegenschelle am Mast befestigen.
- Zum Neigen sind verschiedene Bohrungen vorhanden.
- Bei Außeneinsatz Steckverbinder mit selbstverschweißendem Dichtungsband o.ä. abdichten.

Mounting instructions using the optional mast bracket:

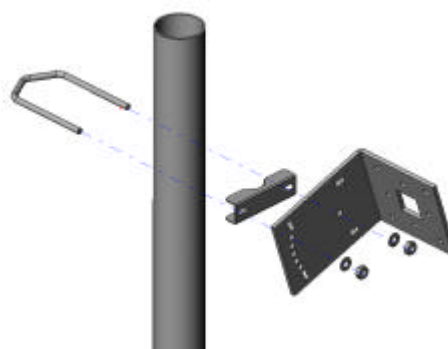
- Attach the L bracket to the antenna by means of the two No.10 x 13mm self tapping screws provided. The figure below illustrates this for vertical polarisation.
- Attach the enclosure to a mast (diameter 40-50mm) using the Econo-bracket assembly as shown in below.
- The Econo-bracket can be mounted through different holes to achieve the desired tilt angle of the antenna.
- For outside installation thoroughly seal connectors with self vulcanising tape to stop water ingress.



Attach the bracket to the antenna



Attach the bracket to a pole



Changing the Tilt Angle

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