

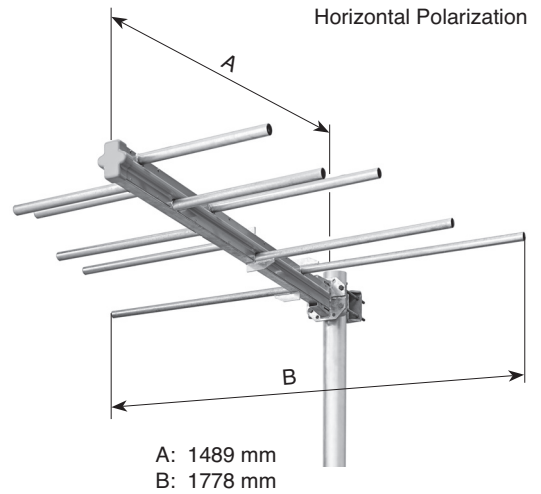
Polarization

H V

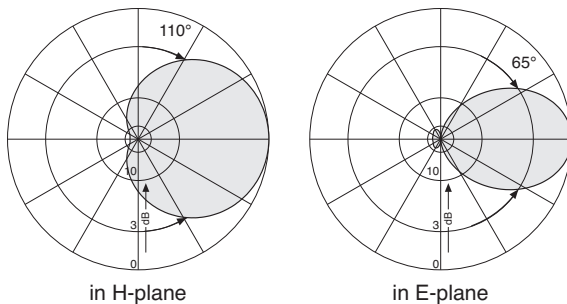
- Logarithmic-periodic broadband directional antenna
- Suitable for sites with icing

Order No.	75010285	75010286	75010287
Input	7-16 female	7/8" EIA flange	1 5/8" EIA flange
Max. power	3 kW	5 kW	7 kW
Frequency range	87.5 – 108 MHz		
VSWR	≤ 1.2		
Gain (at mid-band)	5 dBd		
Impedance	50 Ω		
Polarization	Horizontal or vertical		
Weight	29 kg		
Wind load (at 160 km/h)	Frontal / lateral: 300 N / 325 N		
Horizontally polarized	Frontal / lateral: 300 N / 475 N		
Vertically polarized			
Max. wind velocity	225 km/h		

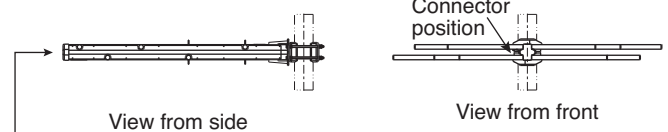
Material: Hot-dip galvanized steel.
 Mounting: To pipes of 60 – 120 mm diameter by means of mounting clamps, supplied.
 Grounding: The inner conductor is DC grounded.



Radiation Patterns (at mid-band)



Installation: Horizontal Polarization



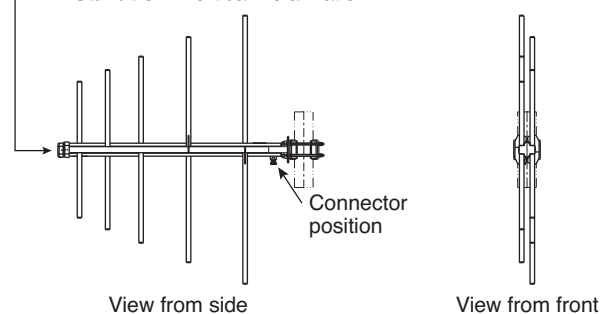
View from side

Connector position

View from front

Please apply or remove drainage stoppers as indicated on antenna tip!

Installation: Vertical Polarization



View from side

Connector position

View from front

936.4727 Subject to alteration.

Please note:

As a result of more stringent legal regulations and judgements regarding product liability, we are obliged to point out certain risks that may arise when products are used under extraordinary operating conditions.

The mechanical design is based on the environmental conditions as stipulated in ETS 300 019-1-4 and thereby respects the static mechanical load imposed on an antenna by wind at maximum velocity.

Extraordinary operating conditions, such as heavy icing or exceptional dynamic stress (e.g. strain caused by oscillating support structures), may result in the breakage of an antenna or even cause it to fall to the ground.

Cylindrical bodies can show crosswind response, which can cause the supporting structure to oscillate and to be damaged. Prismatic bodies, even with non-circular cross-section can show crosswind response, which can cause the supporting structure to oscillate (see EN 1991-1-4 or EN 1993-3-1).

These facts must be considered during the site planning process.

The maximum wind velocities listed should be understood in the sense of working values according to DIN and EN standards. These values include a safety factor (1.5) below the ultimate limit state (elastic limit or permanent deformation). For these wind velocities we guarantee the mechanical safety and the electrical integrity of our antennas.

The installation team must be properly qualified and also be familiar with the relevant national safety regulations. The details given in our data sheets have to be followed carefully when installing the antennas and accessories. The limits for the coupling torque of RF-connectors, recommended by the connector manufacturers must be obeyed.

Any previous datasheet issues have now become invalid.

Our quality assurance system and our environmental management system apply to the entire company and are certified by TÜV according to EN ISO 9001 and EN ISO 14001.

