

# D.M.E. Omnidirectional Gain Antenna 960 – 1215 MHz 715986, 722394

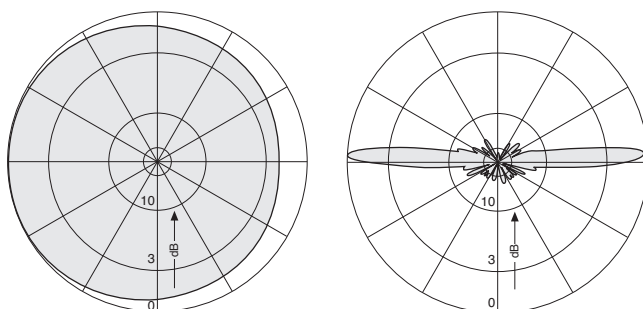
The antenna consists of a number of identical, decoupled half-wave dipoles, phase-feeding cables and transformer. Each dipole is mounted onto a central supporting brass tube. The horizontal pattern is obtained by the circular characteristic of the single dipole, the vertical pattern varying phase and distance of the single dipoles. All metal parts are DC grounded and, therefore, widely immune to damage from lightning. The top of the antenna is fitted with a LED obstruction light (type no. 715986). Two antenna monitor probes are located inside the fiberglass tube. All feedlines and monitor cables descend inside the supporting brass tube.

Type No.	715986	722394
Obstruction light	Yes	No
Frequency range	960 – 1215 MHz	
Bandwidth	255 MHz	
VSWR	< 1.8 (antenna input)	
Gain	9 ±0.5 dBi	
Impedance	50 Ω	
Horizontal pattern	Omnidirectional: Deviation from omni better ±1.5 dB	
Vertical pattern up tilt	3 ±0.5°	
Coupling attenuation	25 ±3 dB (antenna/monitor probes)	
R. F. peak power	10 kW, modulated as per ICAO recommendation	
Polarization	Vertical	
Temperature range	-40 to +60 °C ambient	

- Material:** Dipoles, decoupling elements, supporting tube and transformer: High quality brass. Base: Weather-resistant aluminum. Radome: Fiberglass, colour: Grey. All screws and nuts: Stainless steel.
- Mounting:** To pipes of 60 – 62 mm OD by means of mounting clamps, supplied.
- Grounding:** The antenna is DC grounded by a cross section of 98 mm<sup>2</sup> brass.
- Please note:** The antenna 715986 is fitted with a double LED obstruction light. The obstruction light is preconfigured as follows: operation with 1 LED and activated failure detection. In case of a malfunction of the main LED, the second LED will be activated automatically.
- The installation team must be properly qualified and also be familiar with the relevant national safety regulations! Non observance of following standards may damage or destroy the devices and severe injuries may occur!  
Observance of standards: DIN VDE 0100  
DIN VDE 0185  
DIN VDE 0855



**Radiation Pattern (at mid-band)**



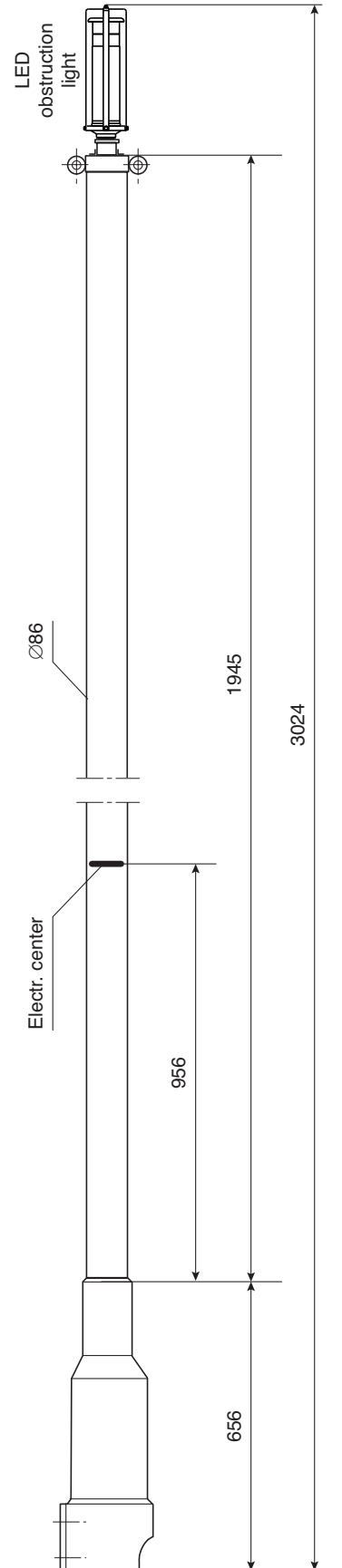
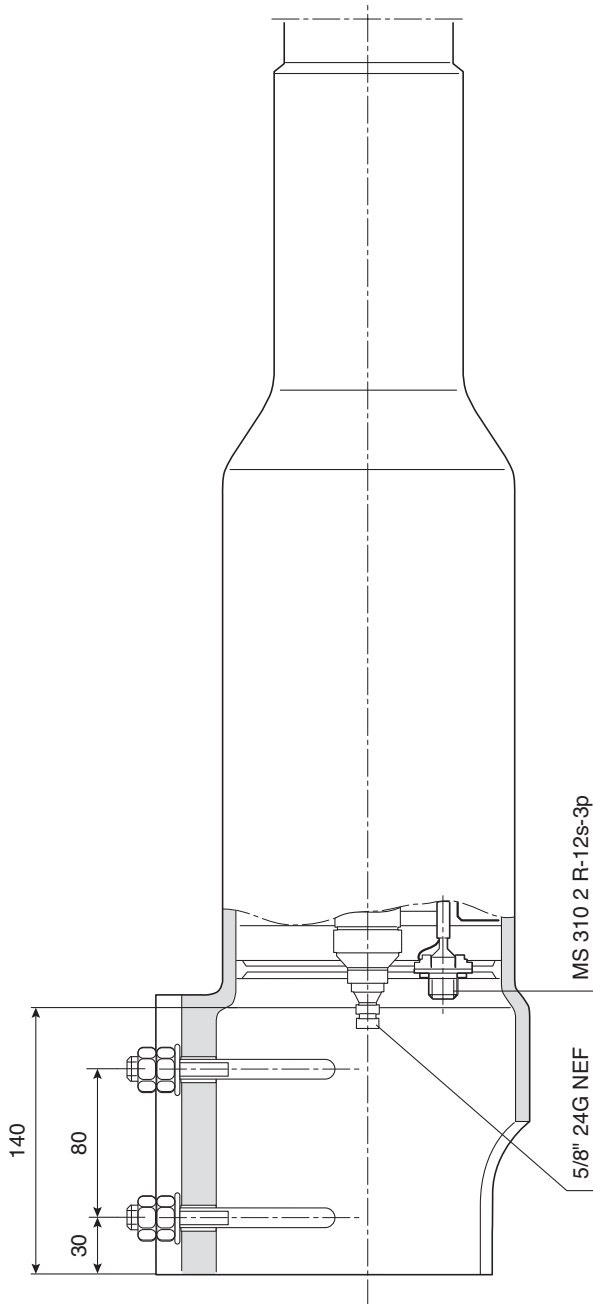
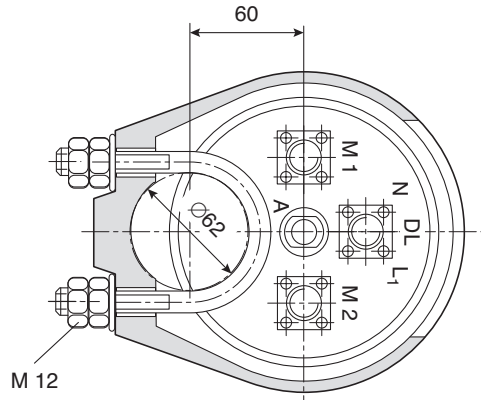
936.4470/b Subject to alteration.

Mechanical specifications	715986	722394
Input	N female	N female
Connector position	Bottom	Bottom
Wind load	370 N	290 N
	(at 150 km/h with 12 mm radial ice)	
Max. wind velocity	200 km/h	241 km/h
	(incl. 12 mm radial ice)	
Weight	23 kg	20 kg
Radome diameter	86 mm	86 mm
Length	3024 mm	2657 mm
Packing size [mm]	3180 x 280 x 300	2780 x 280 x 300

# Mounting Instruction

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