

# colinear 4 dB Mobile Antenna for the 450 MHz Band

## DESCRIPTION

- > 4 dB mobile antenna with colinear, stainless steel whip with 8 mm thread joint.
- Models with ZG-mount or MZG-magnetic mount.
- Choice between ZG-mount with FME-connection (supplied without cable) or ZGP4mount with 4 m factory fitted cable (terminated with FME-connector).
- MZG-models are provided with FME-connection directly on the mount (supplied without cable).
- Choice between general purpose tunable models and permanently tuned models for cellular systems.

Whips from the ZG/ZGP4 mounts and the MZG-mount are **NOT** compatible.

## ORDERING

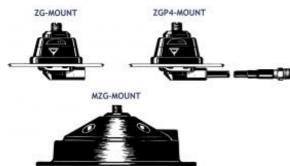
Model	Product No.	Description	Frequency
MU 4-MZG/f	130000917		406430 MHz
MU 4-MZG/h	130000918		440470 MHz
MU 4-MZG/I	130000919		420450 MHz
MU 4-MZG/s	130000920		380410 MHz
MU 4-ZGP4/f	130000959	ZGP4-mount with 4m cable and FME	406430 MHz
MU 4-ZGP4/h	130000961	ZGP4-mount with 4m cable and FME	440470 MHz
MU 4-ZGP4/I	130000964	ZGP4-mount with 4m cable and FME	420450 MHz
MU 4-ZGP4/ CEL1	130000969	ZGP4-mount with 4m cable and FME	450 MHz
MU 4-ZGP4/ CEL2	130000970	ZGP4-mount with 4m cable and FME	440 - 455 MHz
MU 4-ZGP4/ CEL3	130000971	ZGP4-mount with 4m cable and FME	425 - 440 MHz
MU 4-ZGP4/s	130000958	ZGP4-mount with 4m cable and FME	380410 MHz
MU 4-ZG/f	130000957	ZG-mount with FME	406430 MHz
MU 4-ZG/h	130000960	ZG-mount with FME	440470 MHz
MU 4-ZG/I	130000963	ZG-mount with FME	420450 MHz
MU 4-ZG/ CEL1	130000966	ZG-mount with FME	450 MHz
MU 4-ZG/ CEL2	130000967	ZG-mount with FME	440 - 455 MHz
MU 4-ZG/ CEL3	130000968	ZG-mount with FME	425 - 440 MHz
MU 4-ZG/s	130000972	ZG-mount with FME	380410 MHz
MU 4-MZG/CEL2	130001329		440 - 455 MHz

### SPECIFICATIONS

Electrical			
Model	MU 4-ZG/		
Frequency	Models within 380 - 470 MHz		
Antenna Type	Collinear stainless steel mobile whip antenna		
Max. Input Power	100 W		
Polarisation	Vertical		
Impedance	50 Ω		
Bandwidth	> 15 MHz @ SWR = 1.5 > 30 MHz @ SWR < 2.5		
Gain (EIA RS-329-1)	4 dB		
Mechanical			
Materials	Whip: Black-chromed stainless steel and brass Mount: Black-chromed brass Weather- and shockproof plastics Stainless steel		
Installation Torque	7.5 +/- 1 Nm		
Colour	Black		
Height	59 mm / 2.32 in.		
Weight	ZG-version: Approx. 180 g ZGP4-version: Approx. 320 g MZG-version: Approx. 860 g		
Mounting	21mm dia. hole		



### ADDITIONAL DATA



#### INSTALLATION

The antenna whip comprises a 1/4 + section, a phase shifting coil, and a 1/2 + section. The ZG-mount is designed for mounting from the outside in a 21 mm dia. hole on horizontal surfaces as e.g. roof top or trunk lid.

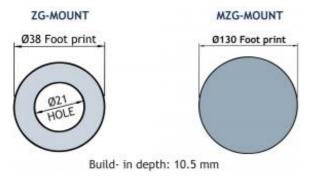
The mount is provided with an M8 x 1 thread mount system. This construction meets the demand for a low-profile mobile mount with a slim appearance and with protection against theft of the antenna whip.

When cleaning the car in car-washing machines, the whip is easily removed using a spanner, size 12 mm. The whip is refitted again by screwing it onto the thread stud and tightening it with the spanner.

The MZG-mount antennas are provided with a large-diameter, thoroughly magnetized permanent ring magnet with an extraordinarily high attaching effect. A silicone layer applied to the whole contact surface protects the car roof and ensures maximum friction.

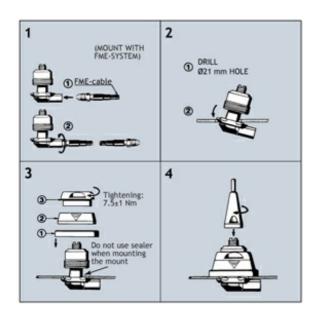
Please note that whips from the ZG/ZGP4 mounts and the whips from the MZG-mount are not compatible.

#### 1. INSTALLATION DIMENSIONS



2. INSTALLATION STEPS





Do not use sealer on rubber gasket or other places.

## 3. TUNING

