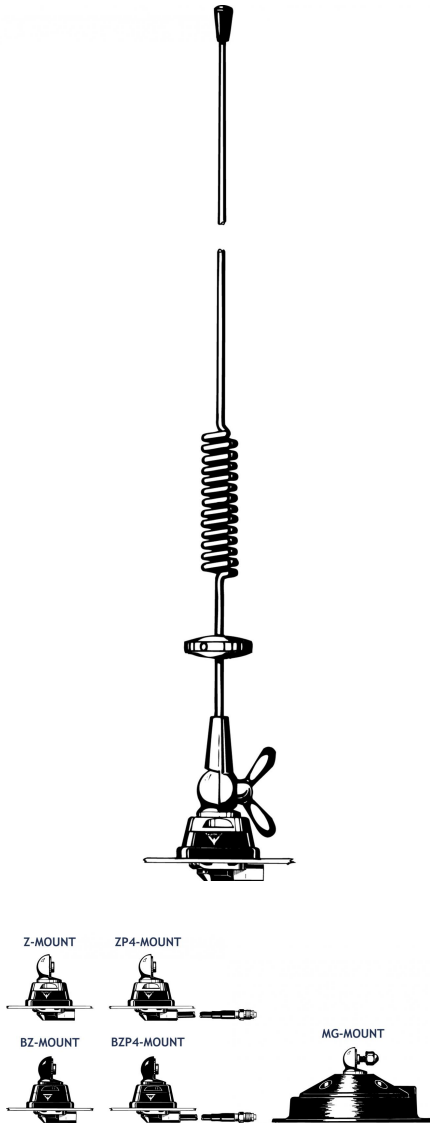


MU 4-Z/...

Collinear 4 dB Mobile Antenna for the 450 MHz Band

DESCRIPTION

- 4 dB mobile antenna series with collinear, stainless steel whip with toggle joint.
- Models with Z-mount or MG-magnetic mount.
- Choice between Z-mount with FME-connection (supplied without cable) or ZP4-mount with factory fitted 4 m cable terminated with FME-connector.
- MG-models provided with FME-connection directly on the mount (without cable).
- Z-type models available in bright or black chromed versions. MG-models available in bright polished only.



Whips from the Z/ZP4 mounts and the MG-mount are **NOT** compatible.

Hat screw option (Z-/ZP4-type models only): By adding a K to the antenna designation the antenna is delivered with hat screw and key instead of wing screw.

ORDERING DESIGNATIONS

| Z-MOUNT WITH FME BRIGHT | PRODUCT NO. | BZ-MOUNT WITH FME BLACK | PRODUCT NO. | [MHZ] |
|--|-------------|-------------------------|-------------|-----------------|
| Models for general application - tunable with adjustment disc: | | | | TUNING RANGE |
| MU 4-Z/s | 130001015 | MU 4-BZ/s | 130000999 | 380...410 |
| MU 4-Z/f | 130000975 | MU 4-BZ/f | 130001001 | 406...430 |
| MU 4-Z/l | 130000992 | MU 4-BZ/l | 130000997 | 420...450 |
| MU 4-Z/h | 130000983 | MU 4-BZ/h | 130001004 | 440...470 |
| Models for cellular systems - pretuned, without adjustment disc: | | | | FREQUENCY RANGE |
| MU 4-Z/CEL4 | 130001002 | MU 4-BZ/CEL4 | 130001010 | 414 - 430 |
| MU 4-Z/CEL3 | 130001467 | MU 4-BZ/CEL3 | 130001005 | 425 - 440 |
| MU 4-Z/CEL2 | 130001466 | MU 4-BZ/CEL2 | 130001011 | 440 - 455 |
| MU 4-Z/CEL1 | 130001003 | MU 4-BZ/CEL1 | 130001000 | 450 - 470 |

| ZP4-MOUNT WITH 4 M CABLE BRIGHT | PRODUCT NO. | BZP4-MOUNT WITH 4 M CABLE BLACK | PRODUCT NO. | [MHZ] |
|--|-------------|---------------------------------|-------------|-----------------|
| Models for general application - tunable with adjustment disc: | | | | TUNING RANGE |
| MU 4-ZP4/s | 130001016 | MU 4-BZP4/s | 130000976 | 380...410 |
| MU 4-ZP4/f | 130000978 | MU 4-BZP4/f | 130000977 | 406...430 |
| MU 4-ZP4/l | 130000994 | MU 4-BZP4/l | 130000993 | 420...450 |
| MU 4-ZP4/h | 130000986 | MU 4-BZP4/h | 130000987 | 440...470 |
| Models for cellular systems - pretuned, without adjustment disc: | | | | FREQUENCY RANGE |
| MU 4-ZP4/CEL4 | 130001007 | MU 4-BZP4/CEL4 | 130000989 | 414 - 430 |
| MU 4-ZP4/CEL3 | 130001009 | MU 4-BZP4/CEL3 | 130000991 | 425 - 440 |
| MU 4-ZP4/CEL2 | 130001012 | MU 4-BZP4/CEL2 | 130000996 | 440 - 455 |
| MU 4-ZP4/CEL1 | 130001006 | MU 4-BZP4/CEL1 | 130000988 | 450 - 470 |

| MG-MOUNT WITH FME | PRODUCT NO. | [MHZ] |
|--|-------------|-----------------|
| Models for general application - tunable with adjustment disc: | | TUNING RANGE |
| MU 4-MG/s | 130000902 | 380...410 |
| MU 4-MG/f | 130000903 | 406...430 |
| MU 4-MG/l | 130000905 | 420...450 |
| MU 4-MG/h | 130000904 | 440...470 |
| Models for cellular systems - pretuned, without adjustment disc: | | FREQUENCY RANGE |
| MU 4-MG/CEL4 | 130000955 | 414 - 430 |
| MU 4-MG/CEL3 | 130000906 | 425 - 440 |
| MU 4-MG/CEL2 | 130001328 | 440 - 455 |
| MU 4-MG/CEL1 | 130000906 | 450 - 470 |

SPECIFICATIONS

| ELECTRICAL | |
|---------------------------------|---|
| MODEL | MU 4-Z/... |
| ANTENNA TYPE | Collinear stainless steel mobile whip antenna |
| FREQUENCY | Models within 380 – 470 MHz |
| IMPEDANCE | Nom. 50 Ω |
| POLARIZATION | Vertical |
| GAIN | 4 dB (acc. to EIA RS-329-1) |
| BANDWIDTH | > 15 MHz @ SWR ≤ 1.5 > 30 MHz @ SWR < 2.5 |
| SWR | ≤ 1.3 @ f. res. |
| MAX. POWER | 100 W |
| MECHANICAL | |
| MATERIALS | Whip: Stainless steel and brass, bright polished/chromed or black-chromed Mount: Chromed brass (bright or black) Weather- and shockproof plastics Stainless steel |
| RECOMMENDED INSTALLATION TORQUE | 7.5 ± 1 Nm |
| COLOUR | Bright or black (see above) |
| HEIGHT | Approx. 59 cm (dep. on freq.) |
| WEIGHT | Z-version: Approx. 230 g ZP4-version: Approx. 370 g MG-version: Approx. 930 g |
| MOUNTING | ø21 mm dia. hole (For roof thickness 2 mm up to 7.5 mm mounting hole should be ø22 mm dia.) |
| ROOF THICKNESS | Max. 2.0 mm (Models up to 7.5 mm on request) |

INSTALLATION

The antenna whip comprises a $\frac{1}{4} \lambda$ section, a phase shifting coil, and a $\frac{1}{2} \lambda$ section. The whip is fastened to the mount by means of our standard ball joint and wing screw system. The adjustable ball joint ensures that the whip can always be mounted in a vertical position independent of the angle of the installation spot.

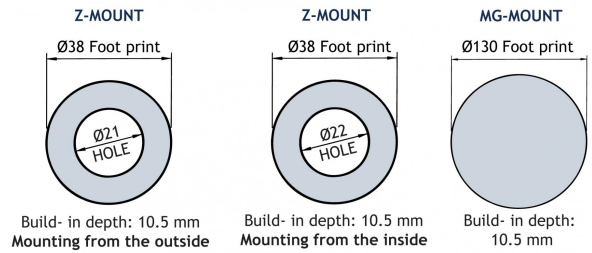
The Z-mount is particularly well suited for mounting on car roofs because of its ability to be installed exclusively with access from the outside. The Z-Mount for roof thickness from 2 mm to 7.5 mm must be mounted from the inside.

However, the antenna can be installed anywhere on the car, as the Z-mount is equally well suited for mounting on e.g. trunk or wing.

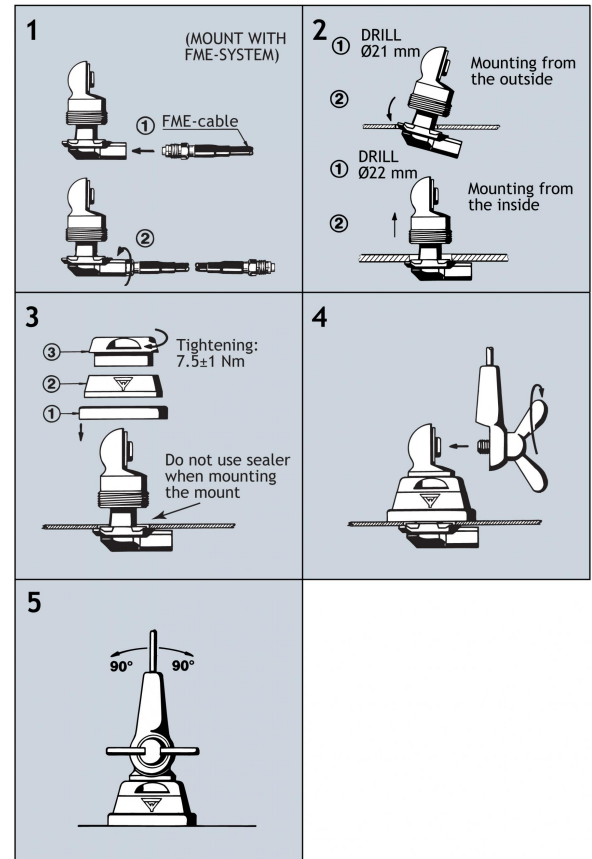
The "MG"-mount antennas are provided with a large-diameter, thoroughly magnetized permanent ring magnet with an extraordinarily high attaching effect. A silicone layer applied to the whole contact surface protects the car roof and ensures maximum friction.

Please note that the whips from the Z/ZP4-mounts and the whips from the MG-mount are not compatible.

1. INSTALLATION DIMENSIONS



2. INSTALLATION STEPS

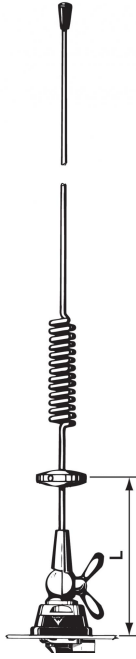
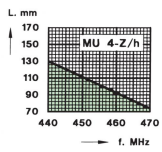
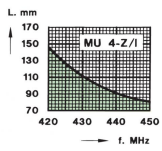
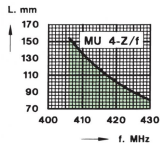
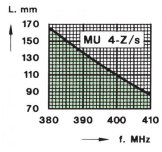


Do not use sealer on rubber gasket or other places.

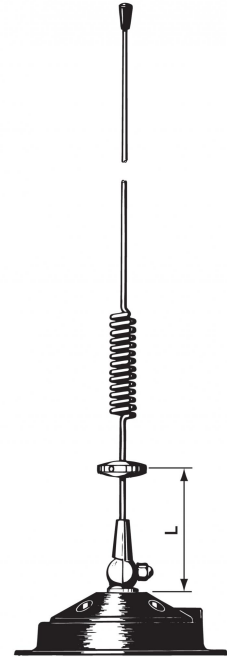
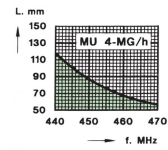
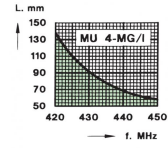
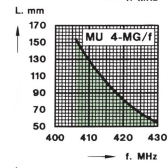
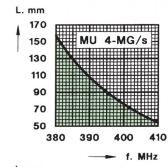
3. TUNING

The antenna is delivered factory-tuned and requires no further tuning.

Z- and ZP4-models



MG-models



PLEASE NOTE

For safety reasons:
When using the MU 4-MG/..., car speed must not exceed 140 km/h.



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d'améliorer les spécifications sans préavis.
09/01/15