



Radar

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VEGAMIP

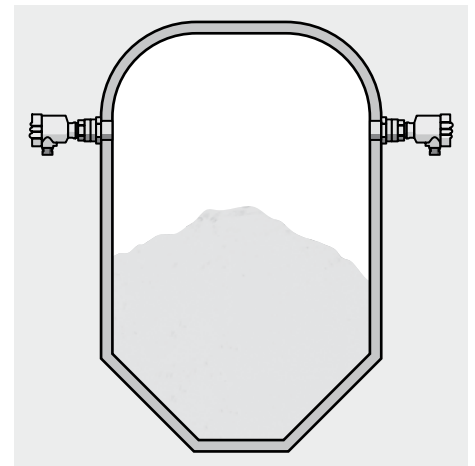
Level detection in bulk solids and liquids

Measuring principle

The measuring system consists of a microwave emitter and a respective receiver. An emitting signal is focussed by an antenna system and emitted against the receiver. A medium in the path of rays damps this signal. This signal damping is detected by the receiver and converted into a switching signal. The adaption to the local conditions and the medium is easily possible by adjusting the sensitivity. Because microwaves can penetrate non-conductive products, a measurement through plastic vessels is possible. With metal vessels, mounting is carried out directly on the vessel or through suitable window materials such as for example plastic, glass or ceramic.

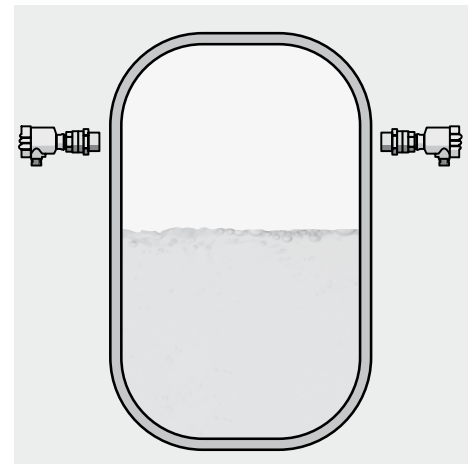
Applications in bulk solids

The main application area of the microwave barrier is the level detection of bulk solids. The non-contact measuring principle is particularly suitable for harsh application conditions in mineral ore mining, coal or ore dressing. Due to the rugged sensor design and the use of suitable window materials, the use with very abrasive products or high temperature is possible. Different sensor and antenna versions enable the adaptation to various applications.



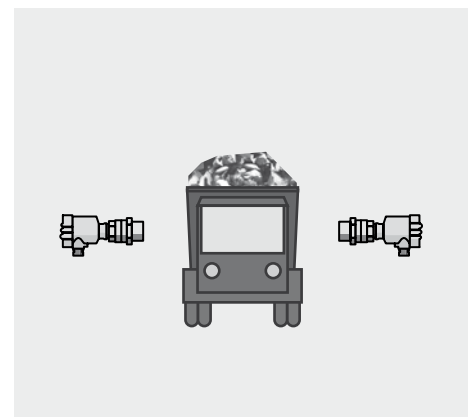
Applications in liquids

Microwave barriers are particularly suitable for measurement in plastic or glass vessels because no opening is required for mounting. The measurement can be carried out directly through the vessel wall.



Applications for object monitoring

Similar to a light barrier, the microwave barrier can be also used for object monitoring. Since microwaves are not influenced by dust, rain or fog, the microwave barrier the ideal solution for harsh operating conditions. Typical applications are loading of trucks in the quarry or collision protection. Due to the sensitivity of the receiver, an effective radius of more than 100 m can be reached.



Overview



VEGAMIP T61



VEGAMIP R61

Application

Level detection

Level detection

Version

Microwave emitter

Microwave receiver

Process fitting

Thread G1½ A, flange

Thread G1½ A, flange

Process temperature

-40 ... +80 °C
with mounting adapter up to
+450 °C

-40 ... +80 °C
with mounting adapter up to
+450 °C

Process pressure

-1 ... +4 bar
(-100 ... +400 kPa)

-1 ... +4 bar
(-100 ... +400 kPa)



Mounting adapter VEGAMIP



For mounting of a VEGAMIP T61/R61 at high temperatures and/or abrasive products

Application area

The mounting adapter is used for mounting of VEGAMIP 61, particularly in bulk solids applications at high product temperatures and/or very abrasive products. The very robust design is particularly suitable for arduous operating conditions in the mining of minerals and the coal and ore processing.

Advantages

- Process fitting G2 A of 316L
- Process separation of Aluminiumoxide ceramic with graphite seal
- Simple mounting
- Wear and maintenance-free

Function

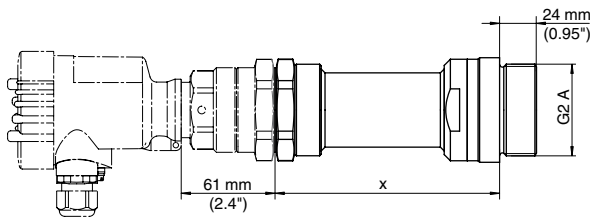
The mounting adapter is screwed to the standard antenna of VEGAMIP 61. The Aluminiumoxide ceramic washer integrated with a graphite seal into the mounting adapter, protects the antenna of VEGAMIP 61 against abrasive products and mechanical damage. Due to the length of the mounting adapter, a temperature coupling up to 450 °C is achieved.



Version / Temperature range

- XA** Adapter length 150 mm / -40...250 °C
- XB** Adapter length 300 mm / -40...450 °C

MONTZUB-MIP.



- x Length 150 mm for 250 °C
- x Length 300 mm for 450 °C



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



UK Office

Keison Products,

P.O. Box 2124, Chelmsford, Essex, CM1 3UP, England.

Tel: +44 (0)330 088 0560

Fax: +44 (0)1245 808399

Email: sales@keison.co.uk

Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.