



SENSOREN: MOTOSONIC 810



MOTOSONIC

With the ultrasonic level sensor MOTOSONIC you enter a new dimension of measuring content levels because measurement of the liquid level in a tank is done contactless by using ultrasonic technology.

The flexible MOTOSONIC can be used for quite a high number of liquids in various tank shapes.

The ultrasonic level sensor MOTOSONIC generates a high frequency sound wave to measure the time, the wave needs to run to the fluid level and back, after it was reflected by the liquid surface. Based on the measured time and the speed of sound, the distance between the sensor and the liquid surface can be calculated, and by this means the tank content as well.

It is important for the calculation to take also the tank shape into account, just as waves on the surface of the liquid or possibly

upcoming reflections in the tank. Compared with classical level sensors, measurement with the ultrasonic method is very precise, because distance is detected with an accuracy of ± 2.5 mm and a resolution of 1.8 mm.

Moreover, measurement is done contactless to the medium, what avoids abrasion of mechanical parts and increases the lifetime of the sensor. Fixing on the tank is realised by a 54 mm 5-hole-flange or a 80 mm 6-hole-flange adapter (other flanges can also be offered on request).

The electrical connection is realised with an Delphi-connector. By programming a table of interpolation values into the sensor, tank contents of various tank shapes can exactly be displayed on standard gauges.

Special wishes? We deliver customized solutions!

In addition to the standard temperature sensors listed, we can also offer you customized specific solutions. Simply contact us with your requirements via the adjacent button:

**Contact us
now**

MOTOMETER

MOTOMETER GmbH

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MOTOSONIC 810 with Three-Wire Connection

Three-Wire Connection: Output signal: 0.5 to 4.5 Volts

Technical specifications

Operating voltage: 10 to 30 Volts

Output signal: 3-Wire: 0.5 to 4.5 Volts
(Output impedance 1k to 20 kOhm)

Max. measuring length: 810 mm

Blind area: 50 mm

ESD: 15 KV

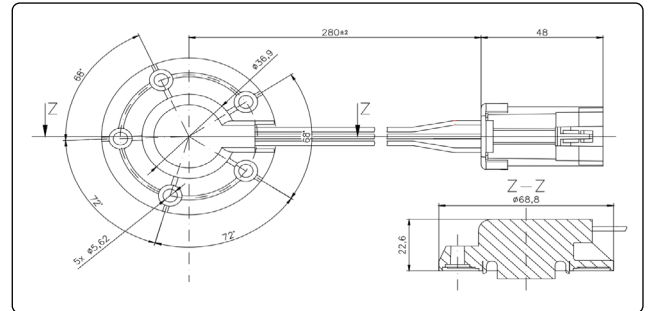
Mechanical shock: 18 G Shock

Vibration: 4 G, 8 hours each 3 directions
in space

Acoustic cone angle: 6 degrees

Operation temperature: -40 to +85 °C

Example: Drawing MOTOSONIC



Length	Damping	Characteristic Line	Mounting	Part No.
460 mm	middle	linear	54 mm 5-hole-flange	608 043 1017
500 mm	middle	linear	54 mm 5-hole-flange	608 043 1007
541 mm	middle	linear	54 mm 5-hole-flange	608 043 1001
700 mm	fast	linear	54 mm 5-hole-flange	608 043 1013
810 mm	middle	linear	54 mm 5-hole-flange	608 043 1014
400 mm	middle	linear	54 mm 5-hole-flange	608 043 1026
810 mm	middle	linear	54 mm 5-hole-flange	608 043 1027
690 mm	middle	linear	54 mm 5-hole-flange	608 043 1033
810 mm	fast	linear	54 mm 5-hole-flange	608 043 1038
650 mm	fast	linear	54 mm 5-hole-flange	608 043 1039
600 mm	middle	linear	54 mm 5-hole-flange	608 043 1044
420 mm	middle	linear	54 mm 5-hole-flange	608 043 1051
580 mm	fast	linear	54 mm 5-hole-flange	608 043 1059
200 mm	middle	linear	54 mm 5-hole-flange	608 043 1115

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MOTOSONIC accessories

Product	Mounting	Part No.
MOTOSONIC accessories: tank flange adapter, spacer	54 mm 5-hole flange	608 044 0003
Mounting kit LK 80/54 mm for MOTOSONIC	54 mm 5-hole flange	608 044 1004
Accessories Kit with float	54 mm 5-hole flange	608 044 1005