

BeMoS Sensor M3G10

Measure the lubrication condition and temperature of mechanical seals.

The BeMoS Sensor M3G10 sensor is part of the BeMoS product family and should be operated with the corresponding BeMoS controllers. For further information, please contact the staff at BestSens AG.

Technical data

Article number	AR106173
Operating voltage ultrasound	0 ... 20 VAC
Power consumption ultrasound	< 1mA
Operating voltage PT1000	5 VDC
Power consumption PT1000	0,1mA
Protection type	IP64
Ambient temperature	-40°C to +150°C (briefly up to +200°C)
Maintenance	Maintenance-free



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AR106173 SN316079

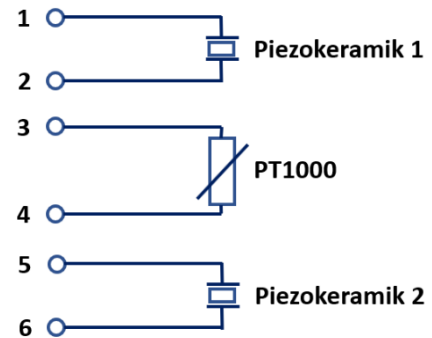
BeMoS[®] Sensor M3G10

Safety notes

- The sensors may only be used in the specified area of application.
- Only trained personnel may carry out the installation.
- The sensors do not contain any parts that can be replaced or repaired by the user.
- The sensors must not be disposed of with household waste. Please return the sensors to BestSens AG for disposal.

Electrical installation

Nr.	Connection
1	Ultrasound transmitter
2	Ultrasound transmitter
3	PT1000
4	PT1000
5	Ultrasound receiver
6	Ultrasound receiver

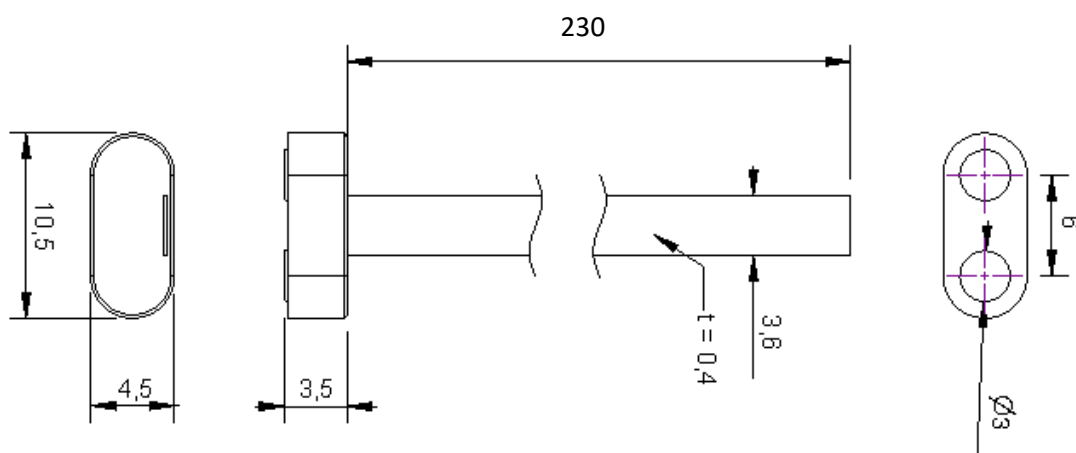


Use an 8-pin socket for 'industrial Ethernet' and a shielded cable with twisted pairs for the connection. By using two pairs of wires for the PT1000, a four-wire measurement is achieved. BestSens offers a suitable socket that can be fitted near the mechanical seal.



The type plates are included and must be attached directly next to the connection for the sensor element during installation.

Drawing data



All drawing dimensions are in mm.

Minimum bending radius of the ribbon cable: 2mm

Installation suggestion

The sensor element is mounted on the static ring of the mechanical seal opposite of the sealing surface. It is attached using a suitable adhesive. For further information, please contact the staff at BestSens AG.

The ribbon cable of the sensor must be firmly laid in the mechanical seal or the pump housing. Care must be taken to ensure that the ribbon cable does not come into contact with moving parts. The cable must be protected against loosening, crushing and other damage. A suitable installation space should therefore be created for the ribbon cable e.g., in the form of a cable duct.

The connection point of the ribbon cable must be located within a protected space to prevent contamination of the electrical contacts. The housing must fulfil at least protection class IP54.

