

## **SENSOR – TRANSMITTER FOR SAND MOISTURE**

### **MS9011**



**TECHNICAL DESCRIPTION AND INSTRUCTION FOR USAGE**

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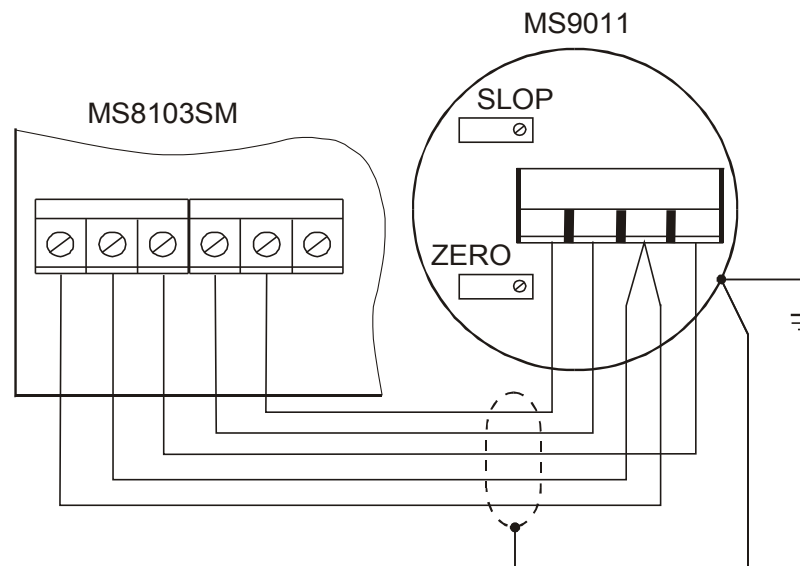
## I. DESCRIPTION

The capacitive sensor-transmitter MS9011 of MICROSYST is designed for measurement of the absolute sand moisture. The measurement can be realized by direct contact between the material and the measuring surface of the combined sensor, which is steadily mounted on the mixing tanks by the case, specially made of stainless steel. There is a possibility for change of the measuring surface in case of wearing out.

## II. TECHNICAL DATA

Range	0.0 ÷ 20.0 %
Output signal	4 ... 20mA two-wire switching on
Accuracy of conversion	± 0.2 %
Power supply	12 ÷ 30 V DC
Operating temperature	0 ÷ 50 °C
Weight	600 g

## III. SCHEME OF SWITCHING ON OF THE TRANSMITTER



## IV. INSTALLATION

The fixing must be done to the middle sector of the sensor; the two caps must be free. There must be a direct contact between the material and the measuring surface of the combined sensor. The front cap must be unscrewed only, if it is necessary to change the Teflon wafer after consultation with a specialist of MICROSYST. For connection of the electric cable it is necessary to unscrew the back cap of the sensor. This can be done by a sector switch (of finisher), and for bearing use the middle sector of the sensor. Before unscrewing, if there is a cable, it is necessary to loosen the orifice of the cable to give a possibility for turning. Use shielded cable obligingly, which must be connected by the scheme, mentioned above. The cap must be isolated with silicone against humidity and eventual unscrewing as a result of vibrations. Calibration, by the two trimmers SLOP and ZERO, is possible only, after consultation with a specialist of MICROSYST.

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