

Type SOR

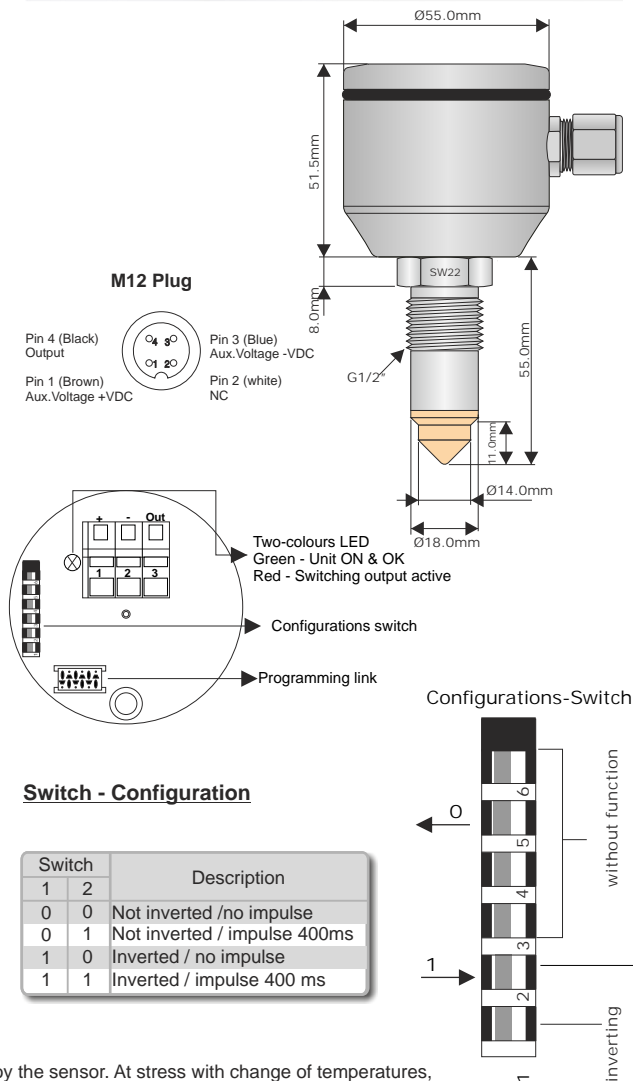
For monitoring of rotary spray cleaning systems (Orbital Cleaner)

Basic Features

- ▶ Welding Sleeve System with modular process connections
- ▶ Partly moulded
- ▶ Aseptic Measuring point
- ▶ Wetted parts made of peek
- ▶ EHEDG-certified, FDA-conformal

Technical Features

- ▶ High-grade-steel connection head No. 1.4305
- ▶ Optional connection:
 - PG-screwing
 - M12 plug
- ▶ Thread G1/2" elastomer - free sealing-system
- ▶ Sensor-tip made of Peek (HPC-Tip No.2)
- ▶ Supply voltage $U_b = (18...32 \text{ VDC})$
- ▶ Domestic electricity req. $< 20\text{mA}$
- ▶ Output-signal active max. 50 mA (PNP)
- ▶ Perm. load 0 Ohm at 24 VDC 50mA
- ▶ Power up delay $< 0,3\text{s}$
- ▶ Response time $< 75 \text{ ms}$
- ▶ Process-temperature $0...+100^\circ\text{C}$
- ▶ CIP-/SIP-cleaning $0...+150^\circ\text{C}$ (30 min)
- ▶ Innen-head-temperature max. 70°C
- ▶ Ambient - temperature $-10...+70^\circ\text{C}$
- ▶ Storage - temperature $-20...+70^\circ\text{C}$
- ▶ Protection class IP 68 / IP69K
- ▶ Working pressure max. 10bar
- ▶ Max. torque 20 Nm
- ▶ Use in: Water and water-based cleaning fluids
- ▶ Design temperature 25°C
 - Kinematic viscosity $1,004 \times 10^2 \text{ m}^2 / \text{s}$
 - Admittance $0,05 \text{ S/m}$
 - Tolerance of values $\pm 10\%$



Approval

EHEDG, Hygienic Peek Connect G 1/2" (HPC)
Certifikate Number 21/2017 *

ATTENTION!

At lower deviation of dew points water condensation is possible, that can destroy the sensor. At stress with change of temperatures, e. G. a cold water jet on the hot sensor, it can come to absorption of fluids in to the sensor. (Requirements cf. DIN EN 60068-2-14)
At applications with dew point, temperature shock or thermal shock stresses we recommend a part or better to full grouting.

The tightness classification after IP68 does not mean that these parts are suitable! for applications with lower deviation of dew point or temperature shock. (DIN 60068-2-14)

* Certificate only valid in combination with an EHEDG process tip (HPC tip) and process adapter (HPC sleeve). Permissible process adapters see data sheet "Process adaptation"

Monitoring Sensor

Type SOR

For monitoring of rotary spray cleaning systems (Orbital Cleaner)

Comments

The sensor is monitoring the rotation of an orbital cleaner.

Function 1

Everytime a jetz of the cleaner hits the sensor tip during a cleaning process, the output signal of the sensor will switch from LOW to HIGH. This output state will retain for 20 sec before falling back to low

Function 2

Using the impulse output, which can be configured by the configuration switch, the sensor will provide a 400 msec impulse (LOW to HIGH) at the output on each monitored jet. (Switch 2 on "1")

Order Code

SOR -

High-grade-steel connecting head

Mit Screw connection M16x1,5 Protection class IP 68

with M12-plug

Protection class IP69K

5

6

Version

Standard-Version

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