

Type SOR

Monitoring Sensor for jet detection at rotary cleaning devices

Basic Features

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

Technical Features

- ▶ Supply voltage $U_b = (18...32 \text{ VDC})$
- ▶ Power requirement $< 20\text{mA}$
- ▶ Output signal active max. 50 mA (PNP)
- ▶ Permissible load 0Ω at 24 VDC
- ▶ Switch on delay 50 mA
- ▶ Response time $< 0,3\text{s}$
- ▶ Rated Temperature $\leq 75 \text{ ms}$
- ▶ Head interior temperature max. 70°C
- ▶ Torque 8-15Nm
- ▶ Ambient temperature $-10...+70^\circ\text{C}$
- ▶ Storage temperature $-20...+70^\circ\text{C}$
- ▶ Protection class IP 65/67
- ▶ Working pressure 10bar max.
- ▶ Medium temperature durable $0...+100^\circ\text{C}$
- ▶ CIP-/SIP-cleaning $0...+150^\circ\text{C}$ (30 min)
- ▶ Use in: Water and water-based cleaning media
- Kinematische Viscosity $1,004 \times 10^6 \text{ m}^2/\text{s}$
- Conductivity 0,05 S/m
- Tolerance for values $\pm 10\%$

Bemerkungen / Anwendungsbeschreibung

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

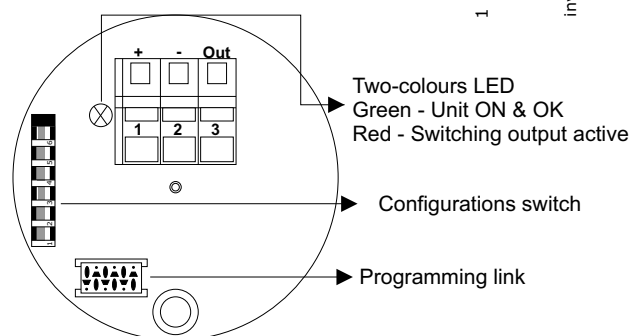
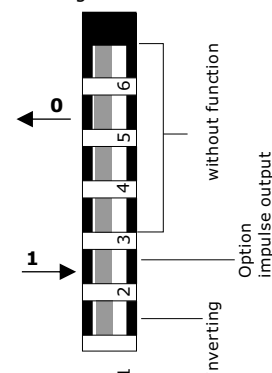
Using the impulse output, which can be configured by the configuration switch, the sensor will provide a 400 msec impulse (LOW to HIGH) at the output on each monitored jet. (Switch 2 on "1")



Switch - Configuration

Switch	1	2	Description
0	0	0	Not inverted / no impulse
0	1	0	Not inverted / impulse 400ms
1	0	0	Inverted / no impulse
1	1	0	Inverted / impulse 400 ms

Configurations-Switch



Order Code

High-grade-steel connecting head		SOR	-	
Mit Screw connection M16x1,5	Protection class IP 68	5		
with M12-plug	Protection class IP69K	6		
Version	Standard-Version			S