

Type SRS-02

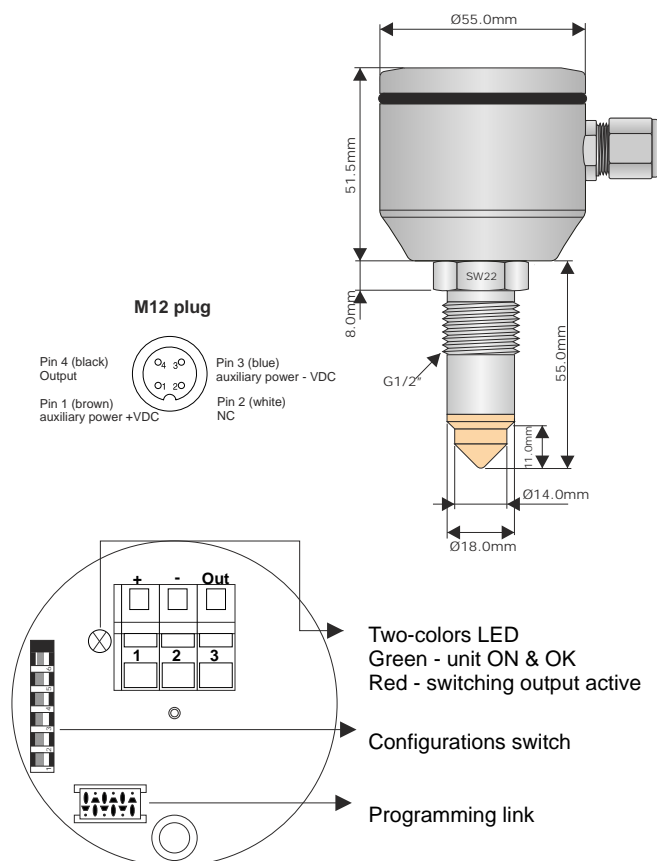
Capacitive sensor for the monitoring of specific spray cleaning installations

Basic features

- ▶ Welding sleeve-system with modular process connections and pressure screw
- ▶ Aseptic measuring point
- ▶ Wetting parts made of peek
- ▶ Further settings via PC and programming interface (optional)
- ▶ 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.5)
- ▶ 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 ca. 30 s
- ▶ Process-temperature $0...+100^\circ\text{C}$
- ▶ CIP-/SIP-cleaning $0...+150^\circ\text{C}$ (30 min)
- ▶ Innenr-head-temperature max. 70°C
- ▶ Ambient - temperature $-10...+60^\circ\text{C}$
- ▶ 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 $1,004 \times 10 \text{ m}^2 / \text{s}$
 - 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 SRS-02

Capacitive sensor for the monitoring of specific spray cleaning installations

Comments

Capacitive sensor for monitoring of special target jet cleaning systems.
The Sensor monitors the rotation and intensity of the cleaner by means of recurring rays hitting the sensor tip.

Note: If only one sensor is used for monitoring the spray jet, an incorrect measurement may occur, e. g. in the case of a blocked spray head (fan spray head with one fan or two 180° offset fans).
The stop of the spray head is then not deduced. The detection rate of such an error can be improved by using a second sensor offset at 90°. An appropriate evaluation of both individual sensor signals is required. Under no circumstances a single sensor can be used for the safe rotation control of a spray jet cleaner.

Suitable for aqueous media, which do not cause annoying buildup and have no disturbing foam formation.
Suitable for deionised water or WFI water.

!ATTENTION!

The function is provided by the user in any combination of cleaning fluid cleaning device and cleaning liquid to check the container environment (list not exhaustive) and release it in the respective application.
The user is responsible for the application.

Order Code SRS02

SRS02 - 6 -

High-Grade Steel Connecting Head

High-Grade-Steel Connecting Head, 1.4305 M12 plug

6

Version

Process Connection: G1/2" hygienic made of 1.4404

Tuchenhagen- Process connection

S
ET