regom instruments

Limit Switch

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seli

Type SGS-02-11-S

basic @ level

Limit switch for the food industry

Basic Features

▶ One limit switch for watery and oily media
▶ Two steady adjusted switch on /off treshold, free adjustable with software (no two units required) Standard: watery media
▶ welding sleeve-system with modular process conections
▶ Aseptic measuring point
▶ Wetting parts made of peek
▶ Display of the switching state via brigth TOP LED illuminated ring of PA-GF20
▶ Very high meauring dynamic
▶ Partly moulded
▶ EHEDG certified, FDA-conformal

CERTIFIED
HYGIENIC ENGINEERING & DESIGN GROUP EUROPEA
EHEDG
TYPE EL
CLASS I
DECEMBER 2017

Technical Features

▶ High-grade steel connecting head Material No. 1.4404 (316L)
▶ Connection: M12 plug (1.4301)
▶ Thread G 1/2" elastomerfree sealing system
▶ Sensor heads made of Peek (HPC-Tip No. 2)
▶ CIP-/SIP cleaning 0... + 150°C (30 min)
▶ Supply Voltage12...32 VDC
▶ Output signal PNP (standard), NPN or Push-Pull switchable/ NC, NO switchable
▶ Power up delay < 0,3s
▶ Response time0,2s
▶ Ambient temperature-10...+70°C
▶ Medium temperature durable 0...+100°C
▶ Storage temperature -20...+70°C
▶ Working pressure 10 bar bar (Higher pressures on request)
▶ Protection class IP68 / 69K
▶ Torque max. 20 Nm
▶ Permissible Load: 100mA

Approvals

EHEDG, Hygienic Peek Connect G 1/2" (HPC)
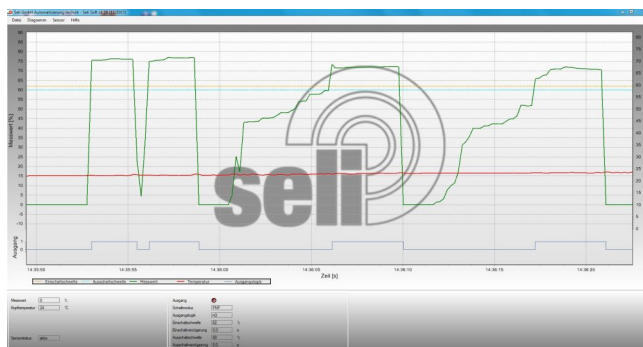Certificate Number 21/2017
Certificate only valid in combination with an EHEDG process tip (HPC tip) and process adapter (HPC sleeve). Permissible process adapters see data sheet
"Process adaptation"

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)

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

Favoured fields of application are e.g:

The smw is a micro-processor controlled limit switch for liquids or paste-like and adhesive medias.

▶ Low- / high alarm in containers
▶ Media registration in pipes as pump protection
▶ Fill level detection of liquids in containers + pipes

Visualization via PC-USB interface Software incl for readout the SGS
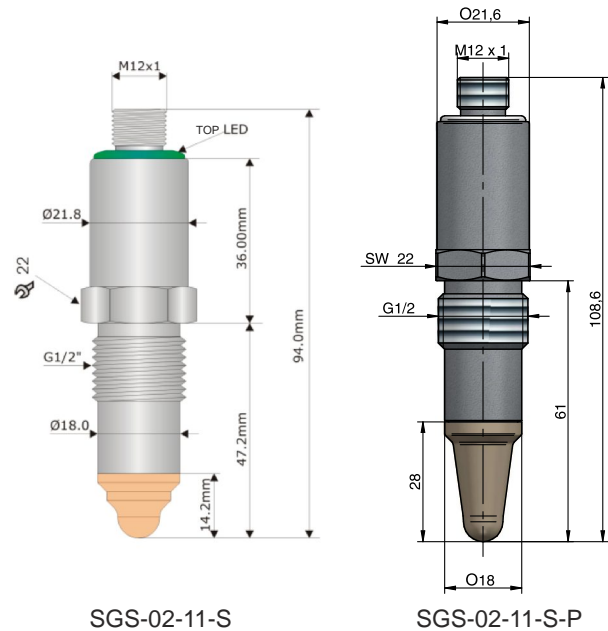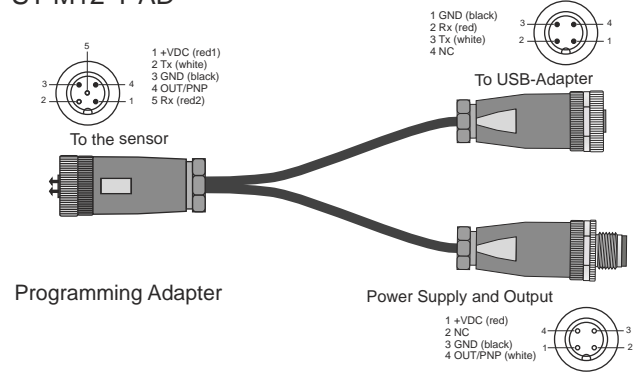
Type SGS-02-11-S

basic @ level

Parameterization (optional accessories)

For parameterization, both the PC USB interface STPA-M12 and the programming adapter ST-M12-Y-AD is required.

ST-PA-M12

PC-USB-Interface incl. the Software for readout and parameterize.

ST-M12-Y-AD

1 +VDC (red1)
2 Tx (white)
3 GND (black)
4 OUT/PNP
5 Rx (red2)

To the sensor

1 GND (black)
2 Rx (red)
3 Tx (white)
4 NC

To USB-Adapter

Programming Adapter

Power Supply and Output

1 +VDC (red)
2 NC
3 GND (black)
4 OUT/PNP (white)

O21,6
M12x1
TOP LED
Ø21.8
36.00mm
22
94.0mm
G1/2"
47.2mm
Ø18.0
14.2mm

SGS-02-11-S
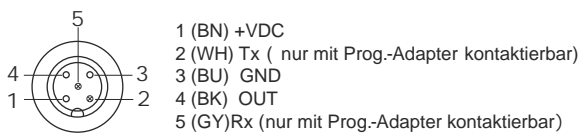
O21,6
M12 x 1
SW 22
G1/2
108,6
61
28
O18

SGS-02-11-S-P

Notice

Suitable for applications with predominantly aqueous media, mild, beer, Cip - liquids. Very adhesive media can lead incorrect measurements.

Relevant welding sleeves on request.

The sealing of the sensor must have an intact electrical connection of the G1/2" thread and the container wall. Do not use any sealing strips

Installation Notes

Nm

Torque PEEK-Tip (HPTC-Tip) with sleeve (HPC-Sleeve): 20Nm

Pin Configuration

5
4   3
1   2

1 (BN) +VDC
2 (WH) Tx (nur mit Prog.-Adapter kontaktierbar)
3 (BU) GND
4 (BK) OUT
5 (GY)Rx (nur mit Prog.-Adapter kontaktierbar)

Order code

SGS- `02 - 11 - S

Version with longer peek tip   SGS- `02 - 11 - S - P

Accessories

PC-USB-Interface incl. Software to redout and parameterize

ST-PA-M12

Programming adapter (Y-Adapter M12) to connect the SGS with PC-USB-Interface

ST-M12-Y-AD