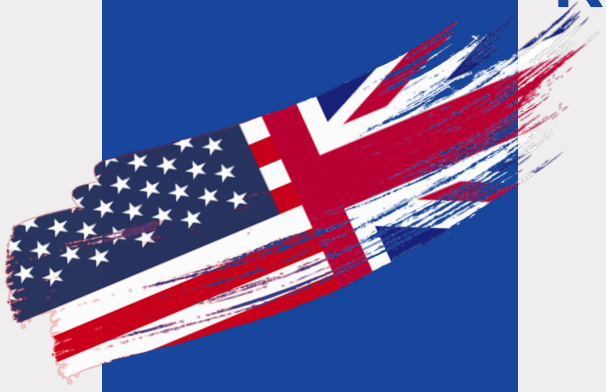
RECHNER SENSORS

Capacitive Sensors

ROUND CATALOG



Serie 26

Every product from the company Rechner Sensors bears the CE mark according to EU regulation 765/2008.

Devices that are RoHS compliant are devices that comply with the EU Directive 2011/65 / EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment

ATEX is the abbreviation for "ATmosphère EXplosive". ATEX certified devices are certified according to the ATEX product directive 2014/34/EU and the European standards for **explosion protection.**

Devices certified according to IECEx can be used internationally in explosive-endangered areas.

ETL Listed is a **security seal** of approval for the **North American** market. These devices are tested, certified and produced in accordance with UL / CSA safety standards and requirements.

Sensors with this logo are allowed to come into **contact with food** according to the Regulation (EC) No. 1935/2004.

The EHEDG certification is based on **hygienic construction and design,** as well as materials to guarantee the hygienic handling and processing of food and thereby supports the EC **food guidelines**.

IO-Link is the first globally standardized **IO technology** for communicating with sensors and actuators. IO-Link is the evolutionary further development of the previous, tried and tested connection technology for sensors and actuators.

Within the **United Kingdom,** the **UKCA marking** is **mandatory** for technical products. The marking must be checked by the **manufacture**r and/ or a **named body** based in the UK for complicance with the relevant regulations. After testing, a **declaration of conformity** is issued.

The **China Compulsory Certificate** (CCC) is a **certification system** for the **standardisation** of product quality for equipment placed on the market in **China**. Certification by Chinese certifiers is mandatory for equipment in potentially **explosive atmospheres.**

The **Water Resources Protection Act** (WHG) regulates the **protection** and **use** of **groundwater** and **surface waters**, e.g. rivers, lakes, seas, etc. It is a **german national law.**

Safety **I**ntegrity **L**evel, **SIL** for short, is defined in the field of functional safety and in international standardization in accordance with IEC 61508, especially for process plants according to IEC6151, the **safety level** or the **safety integrity level**.
In this case, the requirements refer to **safety requirement level 2.**

TABLE OF CONTENTS

SUPERIOR SERIES

Capacitive sensors - Series 40 - NAMUR

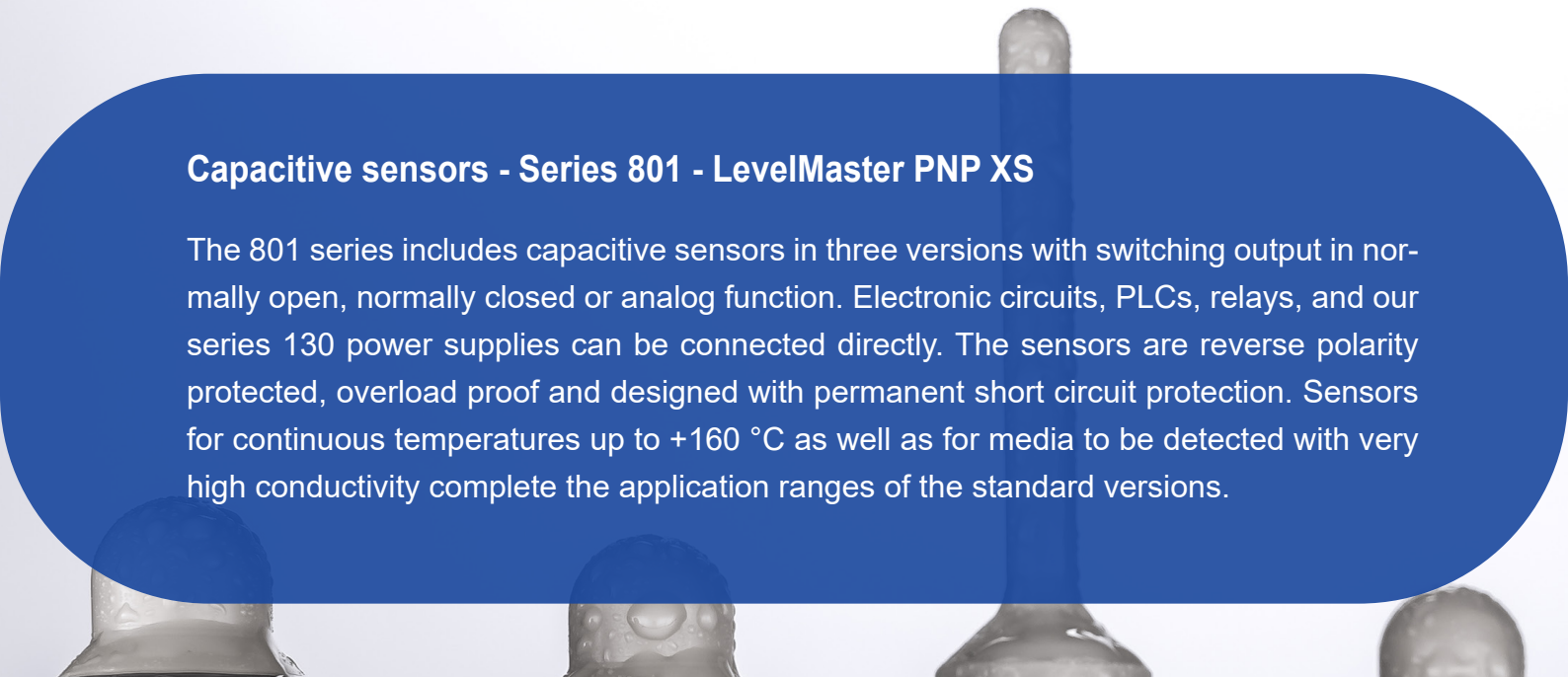
The 40 series includes capacitive sensors in two-wire version according to NAMUR DIN 60947-5-6, also in Ex version for use in zone 20 (dust explosion protection) / zone 0 (gas explosion protection). The sensors can be installed in hazardous areas if approved isolating amplifiers with intrinsically safe control circuits [Exia] or [Exib] of our N-132 series are connected. The 2-wire analog sensors of this series are certified for Zone 20 / Zone 0.

Capacitive sensors - Series 70 (NPN) / Series 80 (PNP)

Series 70 and Series 80 include capacitive sensors in three- and four-wire versions with switching output NPN (70) and PNP (80) in normally open, normally closed or antivalent function. Electronic circuits, PLCs, relays and our 130 series of power supplies can be connected directly. The sensors are reverse polarity protected, overload proof and designed with permanent short circuit protection. Ex versions for use in zone 20 (dust explosion protection) and zone 1 (gas explosion protection) with ATEX and IECEx approval, sensors for continuous temperatures up to +100 °C are available.

Capacitive sensors - Series 801 - LevelMaster PNP XS

The 801 series includes capacitive sensors in three versions with switching output in normally open, normally closed or analog function. Electronic circuits, PLCs, relays, and our series 130 power supplies can be connected directly. The sensors are reverse polarity protected, overload proof and designed with permanent short circuit protection. Sensors for continuous temperatures up to +160 °C as well as for media to be detected with very high conductivity complete the application ranges of the standard versions.



SERIES 26 - A ROUND THING!

Dirt and **buildup** in your processes?
The **26s** enable *safe* and *reliable* **level detection.**

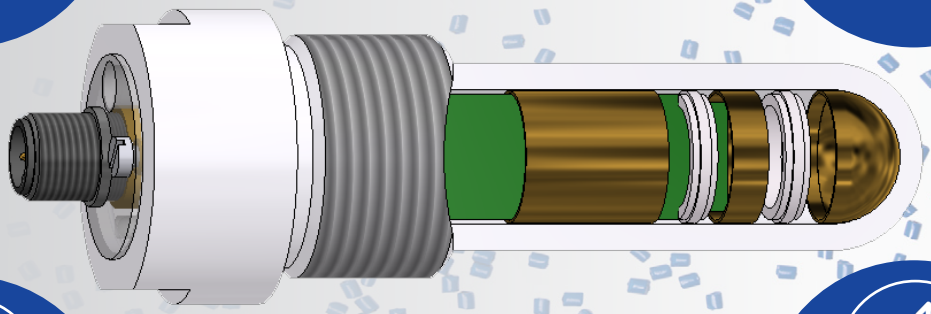
Go for the
round ones !

Innovative electrode structure

SIP / CIP at 121°C

semicircular active Surface

Use of high quality materials PEEK & PTFE



50% larger compared to regular construction

WHG

ATEX all in one

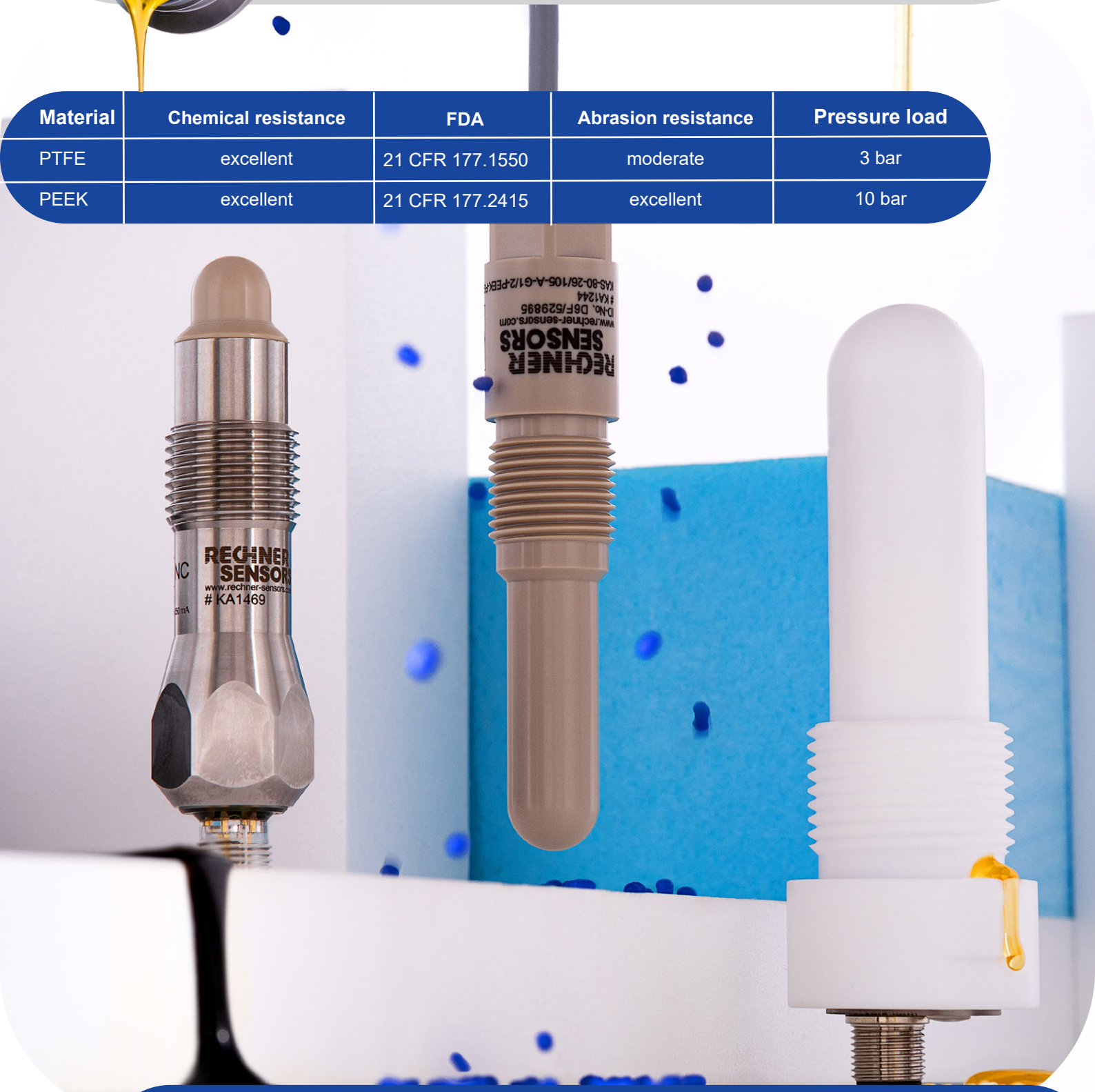
Media optimized

Optimal acquisition of the media despite different DK

Intelligent sensor geometry for optimum dripping behavior

SERIES 26 - A ROUND THING!

Material	Chemical resistance	FDA	Abrasion resistance	Pressure load
PTFE	excellent	21 CFR 177.1550	moderate	3 bar
PEEK	excellent	21 CFR 177.2415	excellent	10 bar



INDUSTRIES

- Semiconductor Technology
- Chemical industry
- Food industry

Applications

- **Bulk materials**, such as granules, powder, grain
- **Liquids**, such as water, oil, chemically aggressive media
- **Pasty substances**, e.g. glues, resins, adhesives

FOOD GRADE

OVERVIEW

- Process connection: G 1/2
- Body material: PEEK (FDA 21 CFR 177.2415)
- SIP / CIP 121° C
- Ideal for level monitoring in the food industry
- Food Grade
- EHEDG-C2000020 (EL Class I)

more details

 # KA1244

KAS-80-26/105-A-G1/2-PEEK-FG-Z02-1-HP

OVERVIEW

- Process connection: G 1/2"
- Body materials:
- PEEK (FDA 21 CFR 177.2415)
- stainless steel no. 1.4305 - AISI 303
- SIP / CIP 121° C
- Ideal for level control in the food or
- pharmaceutical industry
- Remote adjustment via Easy Teach by Wire
- EHEDG compliant assembly
- Food Grade

more details

 # KA1700

KS-801-26/86-S-G1/2-PEEK/VAb-FG-Y3-ETW-HP

OVERVIEW

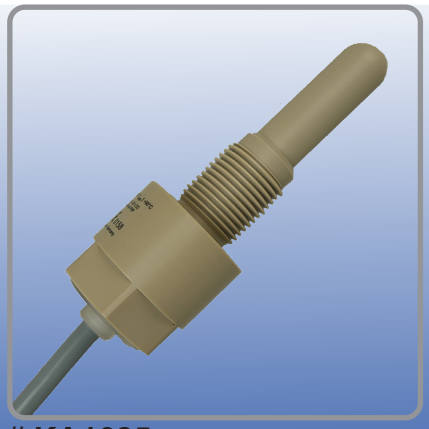
- Process connection: G 1"
- Housing material PTFE (FDA 21 CFR 177.1550)
- SIP / CIP 121° C
- For chemically aggressive products
- Remote adjustment via Easy Teach by Wire
- Food Grade
- Ex II 2G Ex mb IIC T4 Gb
- Ex II 1/2 D Ex ta/tb IIIC T101°C DA/Db

more details

 # KA1686

KAS-80-26/113-A-G1-PTFE-FG-Z03-ETW-HP-2G-1/2D

ATEX - ALL IN ONE



OVERVIEW

- Process connection: G 1/2"
- Body material: PEEK (FDA 21 CFR 177.2415)
- SIP / CIP 121° C
- Remote adjustment via Easy Teach by Wire
- No isolation amplifier necessary
- Ex II 2G Ex mb IIC T4 Gb
- Ex II 1/2 D Ex ta/tb IIIC T101°C DA/Db

 # KA1685

KAS-80-26/105-A-G1/2-PEEK-FG-Z03-ETW-HP-2G-1/2D

more details

OVERVIEW

- Process connection: G 1/2"
- Body material: PEEK (FDA 21 CFR 177.2415)
- SIP / CIP 121° C
- No isolation amplifier necessary
- Ex II 2G Ex mb IIC T4 Gb
- Ex II 1/2 D Ex ta/tb IIIC T101°C DA/Db

 # KA1409

KAS-80-26/160-A-G1/2-PEEK-Z03-1-HP-2G-1/2D

more details

OVERVIEW

- Process connection: G 1"
- Housing material: PTFE (FDA 21 CFR 177.1550)
- SIP / CIP 121° C
- No isolation amplifier necessary
- Ex II 2G Ex mb IIC T4 Gb
- Ex II 1/2 D Ex ta/tb IIIC T101°C DA/Db

 # KA0264

KAS-80-26/113-A-G1-PTFE-Z03-1-HP-2G-1/2D

more details

ATEX - NAMUR

KA1231

KAS-40-26-N-K-G1"-200-PTFE-Y5-StEx

OVERVIEW

- Process connection: G 1"
- Housing material: PTFE (FDA 21 CFR 177.1550)
- SIP / CIP 121 °C
- Ex II 1G Ex ia IIC T1-T6 Ga
- Ex II 1D Ex ia IIIC T101°C Da

more details

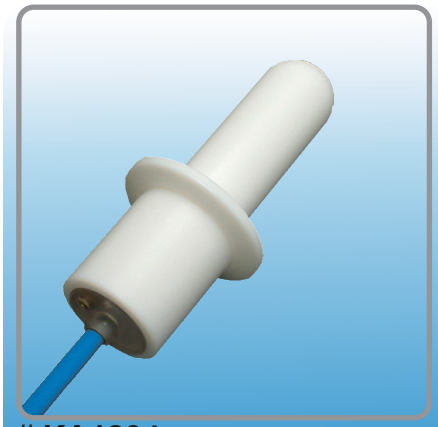
KA0933

KAS-40-26-N-K-G1"-PTFE-StEx

OVERVIEW

- Process connection: G 1"
- Housing material: PTFE (FDA 21 CFR 177.1550)
- SIP / CIP 121 °C
- Ex II 1G Ex ia IIC T1-T6 Ga
- Ex II 1D Ex ia IIIC T101°C Da

more details



KA1234

KAS-40-26-N-K-Tri-PTFE-StEx

OVERVIEW

- Process connection: Triclamp (DIN 32676, series A)
- Housing material: PTFE (FDA 21 CFR 177.1550)
- SIP / CIP 121 °C
- Ex II 1G Ex ia IIC T1-T6 Ga
- Ex II 1D Ex ia IIIC T101°C Da

more details

WHG - SIL - IO-LINK

OVERVIEW

- Process connection: G 1"
- Housing material: PTFE (FDA 21 CFR 177.1550)
- SIP / CIP 121 °C
- WHG:
  Überfüllsicherung (Z-65.13-572)
  Leakage control (Z-65.13-573)

 # 813100
KAS-80-26/113-A-G1-PTFE-Z02-1-HP

more details

OVERVIEW

- Process connection: G 1/2"
- Body material: PEEK (FDA 21 CFR 177.2415)
- SIP / CIP 121 °C
- SIL 2
- Ex II 1G Ex ia IIC T1-T6 Ga
- Ex II 1D Ex ia IIIC T101°C Da

 # KA1514
KAS-40-26-N-K-G1/2"-PEEK-StEx

more details

OVERVIEW

- Process connection: G 1"
- Housing material: PTFE (FDA 21 CFR 177.1550)
- SIP / CIP 121 °C
- Remote adjustment via Easy Teach by Wire
- IO-Link

 # KA1534
KAS-80-26/113-A-G1-PTFE-IOL-Y10-ETW-HP

more details

Customer support guaranteed!

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RECHNER SENSORS

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