

High Lights
Catalogue

20
21





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.

Rechner Sensors: Why us?

QUALITY COMES FIRST!

For 55 years the main focus has been on quality. This is reflected in the high standard and performance of all Rechner sensors and probes, the recognition of employee value and their goals, plus a true commitment to reducing our carbon footprint.

Rechner Sensors promise of quality is your advantage:

COMPANY WITH HIGH QUALITY STANDARDS

Rechner Sensors is an international company and always wants to improve and develop in every area. Certifications help you choose the safest and the highest quality products. Rechner Sensors company certificates and guidelines are e.g. ISO 9001, Code of Conduct, ISO 26000.



MADE IN GERMANY

'Made in Germany' is our guarantee of sensors which are durable, reliable and always deliver a long trouble free, in-service life.

100% FINAL TEST

Every single Rechner product is 100% tested before it is sent to you. It is through this total testing regime that Rechner Sensors ensure you only receive top quality products.



N-HOUSE DEVELOPMENT DEPARTMENT

New solutions, to customer applications are constantly being developed, including bespoke designs. Rechner's goal is to offer the optimal sensor solution, perfected down to the last detail.

100% TRACEABILITY

Rechner Sensors guarantees one hundred percent traceability of your sensors.



LASER MARKING

Permanently legible, chemically and thermally resistant - thanks to the **laser marking**, your sensor can be identified at any time.







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Rechner Sensors is Green



Fruit trees, vines, fountains and even a wild flower meadow are part of Rechner's home premises.

The support of energy saving, increased efficiency, and the protection of nature, are all values practiced, and truly embraced, within Rechner Sensors's holistic quality policies.







Use the sun when it shines! Rechner's electric car fleet all fill-up with home grown electricity, putting sun in the tank!

Everyone in the team helps ensure that resources are used sparingly. From paperless work to digital processes. The sensors and level systems that you receive from Rechner Sensors are produced in "our production facility" in Germany in an eco friendly, sustainable manner.

Rechner Sensors: Your Partner

Capacitive sensors and level probes from Rechner are the perfect feedback devices for your level control.

Decades of customer focussed, senor design experience, is why Rechner's sensor range is so diverse.



CLASSIC CAPACITIVE SENSORS

The capacitive sensors generate a capacitive field in the area of the active surface. Every medium, i.e. liquid or bulk material with a dielectric constant $\varepsilon_r \ge 1.1$, is recorded. Depending on the model used, the value is output as a switching signal or as an analog signal. The level can be regulated via the connected control system.

• Binary measurement
Normally Open, Normally Closed, Antivalent

Analog measurement
 4...20 mA or 0...10 V
 20...4 mA or 10...0 V

Good to know

Sensors and probes for your areas:

- ATEX Dust EX zone 20, 21 and 22
- ATEX Gas EX Zone 0, 1 and 2
- Food contact
- Hygienic design
- Chemical contact
- High temperature ranges up to 250°C
- Containers with pressure or vacuum

Capacitive sensors and level probes detect all types of products:

- Liquids
- Bulk goods
- Pastes

Level control by contact with the media or level measurement through the container wall - you will find the right product here.

ATEX APPROVAL AND FOOD SUITABILITY?
Of course!

Devices from Rechner Sensors, have a longer in-service life, include quadruple electronic protection, which delivers the highest reliability, reducing production stoppages and improving your profitability.

5

<u>Capacitive Sensors</u> <u>with ATEX-Certification</u>

For level control in potentially explosive areas:

EX Zone 20, 21 and 22 / dust Zone 0, 1 and 2 / gas







Your advantage: Sizes in ALL variants





M 12 x 1







M 18 x 1





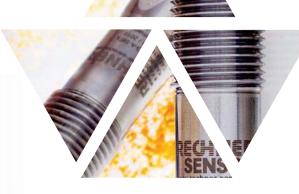
Data Sheets Page 17 - 22



M 32 x 1







G 1/2" and 1 inch

Application example: Level control of bulk goods, liquids and pastes

Protect yourself, your employees and your company from any explosion risk – instal Rechner ATEX sensors.



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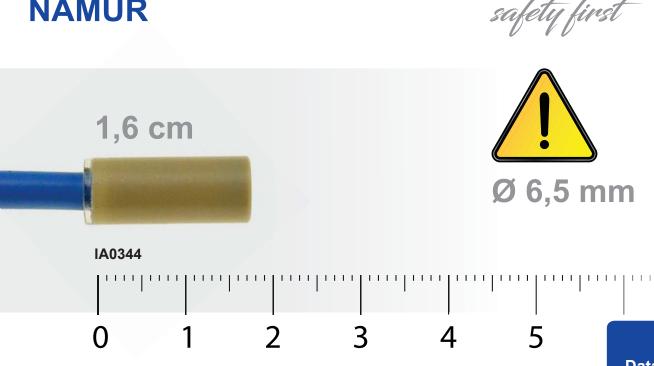




Leakage sensor

Application example: Leak monitoring, pipeline, storage tank e.g. explosive liquids, chemically aggressive liquids

NAMUR



Data Sheets Page 27 - 28

Capacitive Sensors for food contact

RECHNER SENSORS



High Performance = tough physical protection. All norms exceeded

- + highest protection against electrical interference and spikes
- + in-service application resilience
- + longer life, reduced stoppages, higher profits





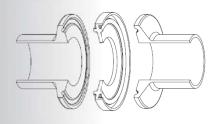


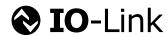
Simple and easy set-up IO-Link devices, can acquire and deploy instant data feedback, to allow auto-optimisation of a sensor performance. This enables live, in-cycle, performance enhancements of an industrial process control.





TRI-CLAMP/TRI-CLOVER





Higher smarter performance

With IO-Link you can read out more information - more knowledge about your production and at the same time achieve efficiency gains and cost savings.

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Capacitive Sensors P3 3 output modes

Detect the fill levels of changing products with one single sensor set-up. Also check 'container present' and 'level detection' with one sensor device.

Easy to program, optimum sensing adjustment, simple set-up

EasyTeach





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EasyMount = The clue is in the name.

Capacitive level measurement systems



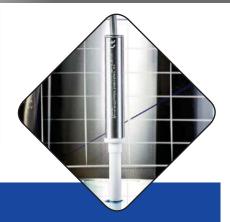
Application:

Liquids and powders e.g. for a very precise detection over a small range, by high sensitivity condition evaluation

Your advantage:

Accessibility of the sensor is not important - it is easily adjusted via the **EasyTeach** function or external evaluation electronics

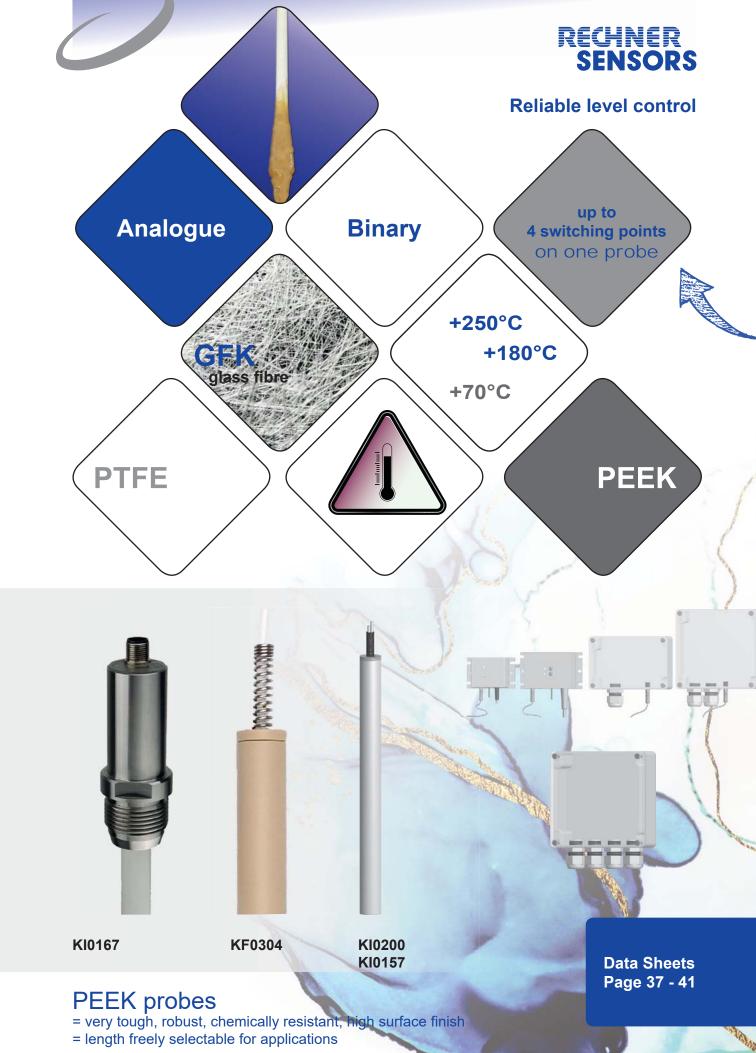




All good things come in threes

The capacitive level probes and level measuring systems are based on the patented Rechner Sensors 3-electrode measuring principle.

The same reliable level detection for all media! At last a solution that ignores material build-up on probes! Rechner's 3-electrode probe ignores coatings by measuring the entire container!





With CCC approval

With the new CCC certification (China Compulsory Certification) you can install Rechner sensors for machines or systems destined for China.





N00017



Only CCC-certified machines and devices are permitted by law for use in China

- a MUST for hazardous areas.

Rechner Sensors products contain the CCC certification. e.g. all inductive and capacitive dust Ex sensors. Certification for all your ZONES.





Evaluation units 1, 2 or 4 channels

Currently in development: Evaluator for min / max solution Your advantage: space-saving 500ⁿ 2 in 1







+250 °C



treme
Range
EXTREMELY WIDE MEASURING RANGES
In hot and normal ambient temperatures



+482 °F

Application Examples: Melt containers, hot glue systems

Suitable sensors are e.g:



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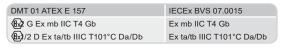




Capacitive Sensors Series 80 - PNP - StEx - ATEX

Housing M 12 x 1

- For use in areas with the risk of dust explosion, zone 20
- For use in areas with the risk of gas explosion, zone 1
- Housing material: Stainless steel VA No. 1.4305 / AISI 303
- Sensing distance 0...6 mm adjustable











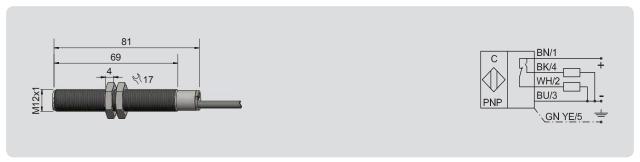








Technical data	Flush mountable
Operating distance S _n	2 mm
Operating distance min. / max. adjustable	06 mm
Electrical version	4-wire DC
Output function	Antivalent
Type PNP current	KAS-80-A12-A-M12-PTFE/VAb-Z03-1-2G-1/2D
Type PNP	KAS-80-A12-A-StEx
ArtNo.	KA 1564
Operating voltage (U _B)	1030 V DC
Voltage drop max. (U _d)	≤ 2.0 V
Permitted residual ripple max.	10 %
Operating current (I _e)	2 x 0150 mA
No-load current (I _o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-20+70 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection cable	3 m, PVC, 5 x 0.14 mm ²
Housing material	Stainless steel VA No. 1.4305 / AISI 303
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
Media optimized	Yes
Accessories (delivered with the sensor)	2 nuts M 12 x 1



* With sealed potentiometer screw



Capacitive Sensors Series 80 - PNP - StEx - ATEX

Housing M 12 x 1

- For use in areas with the risk of dust explosion, zone 20
- For use in areas with the risk of gas explosion, zone 1
- Housing material: Stainless steel VA No. 1.4305 / AISI 303
- Sensing distance 0,5...10 mm adjustable

DMT 01 ATEX E 157	IECEx BVS 07.0015
(Ex) II 2 G Ex mb IIC T4 Gb	Ex mb IIC T4 Gb
(Ex)II 1/2 D Ex ta/tb IIIC T101°C Da/Db	Ex ta/tb IIIC T101°C Da/Db











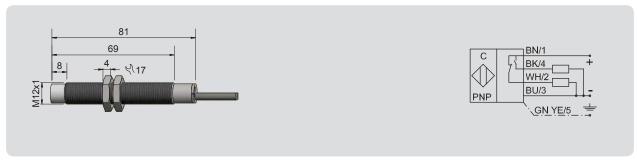








Technical data	Non-flush mountable
Operating distance S _n	4 mm
Operating distance min. / max. adjustable	0.510 mm
Electrical version	4-wire DC
Output function	Antivalent
Type PNP current	KAS-80-A22-A-M12-PTFE/VAb-Z02-1-2G-1/2D
Type PNP	KAS-80-A22-A-StEx
ArtNo.	KA 1565
Operating voltage (U _B)	1030 V DC
Voltage drop max. (U _d)	≤ 2.0 V
Permitted residual ripple max.	10 %
Operating current (I _e)	2 x 0150 mA
No-load current (I _o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-20+70 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection cable	3 m, PVC, 5 x 0.14 mm²
Housing material	Stainless steel VA No. 1.4305 / AISI 303
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
Media optimized	Yes
Accessories (delivered with the sensor)	2 nuts M 12 x 1



^{*} With sealed potentiometer screw

Made in Germany





Capacitive Sensors Series 80 - PNP - StEx - ATEX

Housing M 18 x 1

- For use in areas with the risk of dust explosion, zone 20
- For use in areas with the risk of gas explosion, zone 1
- Housing material: Stainless steel VA No. 1.4305 / AISI 303
- Sensing distance 0.5...10 mm adjustable

DMT 01 ATEX E 157	IECEx BVS 07.0015
(Ex) II 2 G Ex mb IIC T4 Gb	Ex mb IIC T4 Gb
(Ex)II 1/2 D Ex ta/tb IIIC T101°C Da/Db	Ex ta/tb IIIC T101°C Da/Db



















Technical data	Flush mountable
Operating distance S _n	5 mm
Operating distance min. / max. adjustable	0.510 mm
Electrical version	4-wire DC
Output function	Antivalent
Type PNP current	KAS-80-A13-A-M18-PTFE/VAb-Z02-1-HP-2G-1/2D
Type PNP	KAS-80-A13-A-StEx
ArtNo.	KA 1502
Operating voltage (U _B)	1030 V DC
Voltage drop max. (U _d)	≤ 2.0 V
Permitted residual ripple max.	10 %
Operating current (I _e)	2 x 0150 mA
No-load current (I _o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-25+70 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection	3 m, PVC, 5 x 0.14 mm²
Housing material	Stainless steel VA No. 1.4305 / AISI 303
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
Media optimized	Yes
Accessories (delivered with the sensor)	2 nuts M 18 x 1



^{*} With sealed potentiometer screw

Made in Germany



Capacitive Sensors Series 80 - PNP - StEx - ATEX

Housing M 18 x 1

- For use in areas with the risk of dust explosion, zone 20
- For use in areas with the risk of gas explosion, zone 1
- Housing material: Stainless steel VA No. 1.4305 / AISI 303
- Sensing distance 0,5...15 mm adjustable

DMT 01 ATEX E 157	IECEx BVS 07.0015
€x II 2 G Ex mb IIC T4 Gb	Ex mb IIC T4 Gb
(Ex)II 1/2 D Ex ta/tb IIIC T101°C Da/Db	Ex ta/tb IIIC T101°C Da/Db











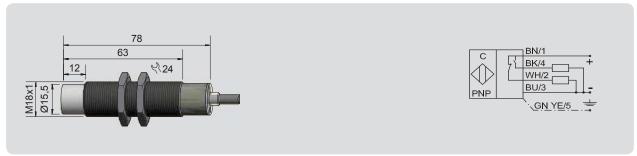








Technical data	Non-flush mountable
Operating distance S _n	8 mm
Operating distance min. / max. adjustable	0.515 mm
Electrical version	4-wire DC
Output function	Antivalent
Type PNP current	KAS-80-A23-A-M18-PTFE/VAb-Z02-1-HP-2G-1/2D
Type PNP	KAS-80-A23-A-StEx
ArtNo.	KA 1503
Operating voltage (U _B)	1030 V DC
Voltage drop max. (U _d)	≤ 2.0 V
Permitted residual ripple max.	10 %
Operating current (I _e)	2 x 0150 mA
No-load current (I _o)	Typ. 15 mA
Frequency of operating cycles max.	25 Hz
Permitted ambient temperature	-20+70 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection cable	3 m, PVC, 5 x 0.14 mm ²
Housing material	Stainless steel VA No. 1.4305 / AISI 303
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
Media optimized	Yes
Accessories (delivered with the sensor)	2 nuts M 18 x 1



^{*} With sealed potentiometer screw

Made in Germany





Capacitive Sensors with analogue output Series 40 - NAMUR EN 60947-5-6 - StEx - ATEX

Current output 20...4 mA

Housing M 30 x 1.5

- For use in areas with the risk of gas explosion, zone 0
- · For use in areas with the risk of dust explosion, zone 20
- Housing material: Brass
- Operating range 0...24 mm

DMT 03 ATEX E 048	IECEx BVS 07.0031
⟨Ex⟩II 1G Ex ia IIC T1-T6 Ga	Ex ia IIC T1-T6 Ga
⟨Ex⟩II 1D Ex ia IIIC T101°C Da	Ex ia IIIC T101°C Da









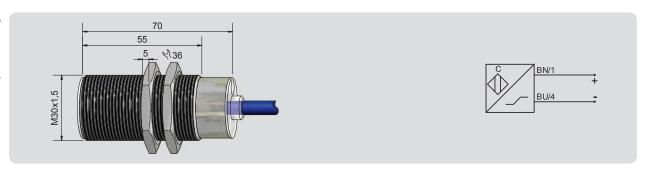








Technical data	Flush mountable
Operating range	024 mm
Linear range	220 mm
Electrical version	2-wire DC
Output function	Analogue
Type Analogue current	KAS-40-A14-IL20-M30-PTFE/MS-Z02-1-HP-1G-1D
Type Analogue	KAS-40-A14-IL20-StEx
Art. No.	KA 1394
Operating voltage (U _B)	1535 V DC, U _i = 27 V DC
Power consumption active surface free	≥ 20 mA
Power consumption active surface covered	≤ 4 mA
Load resistor (R _L)	0500 Ω
Self-inductance (L)	0.2 mH
Self-capacitance (C)	89 nF
Permitted residual ripple max.	5 %
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	0+70 °C
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-6
Connection cable	2 m, PUR, 2 x 0.75 mm²
Housing material	Brass
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
Accessories (delivered with the sensor)	2 nuts M 30 x 1,5



* With sealed potentiometer screw

Made in Germany



Capacitive Sensors Series 80 - PNP - StEx- ATEX

Housing M 30 x 1.5

- For use in areas with the risk of dust explosion, zone 20
- For use in areas with the risk of gas explosion, zone 1
- Sensing distance 3...25 mm adjustable

DMT 01 ATEX E 157	IECEx BVS 07.0015
⟨Ex⟩ II 2 G Ex mb IIC T4 Gb	Ex mb IIC T4 Gb
⟨ II 1/2 D Ex ta/tb IIIC T101°C Da/Db	Ex ta/tb IIIC T101°C Da/Db















Technical data	Non-flush mountable
Operating distance S _n	15 mm
Operating distance min. / max. adjustable	325 mm
Electrical version	4-wire DC
Output function	Antivalent
Type PNP	KAS-80-A24-A-StEx
ArtNo.	KA 0084
Operating voltage (U _B)	1030 V DC
Operating current (I _e)	2 x 150 mA
Voltage drop max. (U _d)	≤ 2.0 V
Permitted residual ripple max.	5 %
No-load current (I _o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-20+70 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection cable	3 m, PVC, 5 x 0.34 mm ²
Housing material	VA No. 1.4305
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PA / PPO
Media optimized	Yes
Accessories (is delivered with the unit)	2 pieces nuts M 30

^{*} With sealed potentiometer screw







Capacitive Sensors Series 80 - PNP - StEx- ATEX

Housing M 32 x 1.5

- Housing material: Stainless steel VA, No.1.4404 (AISI 316L)
- For use in areas with the risk of dust explosion, zone 20
- For use in areas with the risk of gas explosion, zone 1
- Sensing distance 2...25 mm adjustable

DMT 01 ATEX E 157	IECEx BVS 07.0015
(x) II 2 G Ex mb IIC T4 Gb	Ex mb IIC T4 Gb
(x) II 1/2 D Ex ta/tb IIIC T101°C Da/Db	Ex ta/tb IIIC T101°C Da/Db











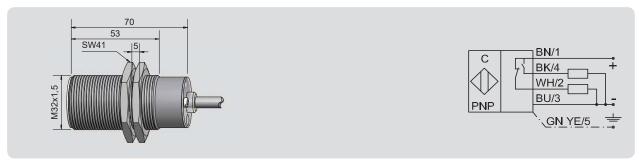








Technical data	Flush mountable
Operating distance S _n	15 mm
Operating distance min. / max. adjustable	225 mm
Electrical version	4-wire DC
Output function	Antivalent
Type PNP current	KAS-80-30-A-M32-PTFE/VAc-Z03-1-2G-1/2D
Type PNP	KAS-80-30-A-M32-StEx
ArtNo.	KA 1047
Operating voltage (U _B)	1030 V DC
Operating current (I _e)	2 x 0150 mA
Voltage drop max. (U _d)	≤ 2.0 V
Permitted residual ripple max.	5 %
No-load current (I _o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-20+70 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection cable	3 m, PVC, 5 x 0.34 mm²
Housing material	Stainless steel VA No.1.4404 / AISI 316L (FDA conforming)
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
Media optimized	Yes
Accessories (is delivered with the unit)	2 pieces nuts M 32 x 1.5



* With sealed potentiometer screw



Capacitive Sensors Series 80 - PNP - StEx- ATEX

Housing M 32 x 1.5

- Housing material: Stainless steel VA No. 1.4305 (AISI 303)
 For use in areas with the risk of dust explosion, zone 20
- For use in areas with the risk of gas explosion, zone 1
- Sensing distance 3...30 mm adjustable

DMT 01 ATEX E 157	IECEx BVS 07.0015
	Ex mb IIC T4 Gb
⟨ II 1/2 D Ex ta/tb IIIC T101°C Da/Db	Ex ta/tb IIIC T101°C Da/Db











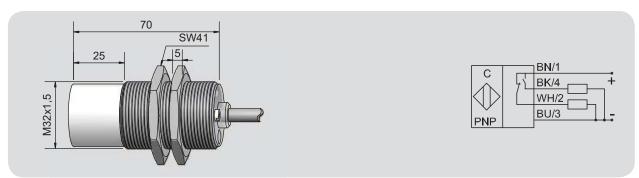








Technical data	Non-flush mountable
Operating distance S _n	20 mm
Operating distance min. / max. adjustable	330 mm
Electrical version	4-wire DC
Output function	Antivalent
Type PNP	KAS-80-34-A-M32-StEx
ArtNo.	KA 1079
Operating voltage (U _B)	1030 V DC
Voltage drop max. (U _d)	≤ 2.0 V
Permitted residual ripple max.	10 %
Operating current (I _e)	2 x 0150 mA
No-load current (I _o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-20+70 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection cable	20 m, PVC, 5 x 0.34 mm ²
Housing material	Stainless steel VA No. 1.4305 (AISI 303)
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
Media optimized	Yes
Accessories (is delivered with the unit)	2 nuts M 32 x 1.5



^{*} With sealed potentiometer screw





LevelMaster - Capacitive Sensors- StEx - ATEX

Model G 1/2"

For level control of liquids, bulk material or pastes Ideal for level control in the Food Industry or Pharmaceutical Industry

- For use in areas with the risk of dust explosion, zone 20
- For use in areas with the risk of gas explosion, zone 1 Housing material: Stainless steel VA No. 1.4305 (AISI 303)
- Welding sockets and Varivent adapter available for EHEDG conform mounting.

DMT 01 ATEX E 157	IECEx BVS 07.0015
(Ex) II 2 G Ex mb IIC T4 Gb	Ex mb IIC T4 Gb
⟨ II 1/2 D Ex ta/tb IIIC T101°C Da/Db	Ex ta/tb IIIC T101°C Da/Db























Technical data	Non-flush mountable	of products
Level sensor, in contact with the product	Medium dependent adjustable	$\varepsilon_{\rm r}$ from 1,1.
Operating distance min. / max. adjustable	0.515 mm	• Rulk mate

Electrical version 4-wire DC Antivalent Output function

Type PNP current	NAS-00-AZS-A-G I/Z-PEEN/VAD-ZUS-1-ZG-1/ZD
Type PNP	KAS-80-A23-A-StEx
ArtNo.	KA 2000

Operating voltage (U_B) 10...30 V DC ≤ 2.0 V Voltage drop max. (U_d) Permitted residual ripple max. 10 % Operating current (I_e) 0...150 mA No-load current (I₂) Typ. 15 mA

Frequency of operating cycles max. 50 Hz

Permitted ambient temperature -25...+70 °C / CIP 121 °C LED-display Green / yellow

Built-in Protective circuit IP 67* Degree of protection IEC 60529

Norm EN 60947-5-2

3 m, PVC, 5 x 0.14 mm² Connection cable Housing material Stainless steel VA No. 1.4305 / AISI 303

Active surface PEEK (FDA 21 CFR 177.2415)

PC (FDA 21 CFR 177.1580) Media optimized)

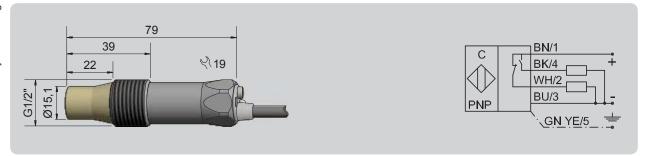
Accessories (not delivered with the sensor): Varivent Adapter art. no. 196395, Welding Socket art. no. 196394

Sensors for level control with a dielectric constant . Products can be:

- Bulk materials, such as grain, sugar, granulates.
- · Liquids, oil, chemicals or pharmaceutical solutions and much more.

Highlights:

- · EHEDG conform
- Measurement is independent of the mounting position



* With sealed potentiometer screw



Capacitive sensors Series 80 - PNP - StEx - ATEX

Housing G 1"

- · For use in areas with the risk of dust explosion, zone 20
- For use in areas with the risk of gas explosion, zone 1
- · Housing material PTFE
- Special version with flange. Sealing can be made with a gasket or PTFEtape (not supplied with the sensor)

DMT 01 ATEX E 157	IECEx BVS 07.0015
⟨x⟩ II 2 G Ex mb IIC T4 Gb	Ex mb IIC T4 Gb
(Ex) II 1/2 D Ex ta/tb IIIC T101°C Da/Db	Ex ta/tb IIIC T101°C Da/Db





















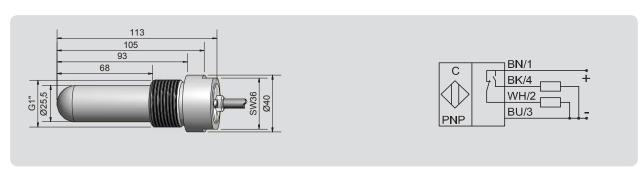




Technical data	Non-flush mountable
Level sensor, in contact with the product	Medium dependent adjustable
Operating distance min. / max. adjustable	020 mm
Electrical version	4 - wire DC
Output function	Antivalent
Type PNP current	KAS-80-26/113-A-G1-PTFE-Z02-1-HP-2G-1/2D
Type PNP	KAS-80-26-A-K-G1"-PTFE-StEx
ArtNo.	KA 0264
Operating voltage (U _B)	1030 V DC
Voltage drop max. (U _d)	≤ 2.0 V
Permitted residual ripple max.	10 %
Operating current (I _e)	2 x 0150 mA
No-load current (I _o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-25+90 °C / CIP 121 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection cable	2 m, PVC, 4 x 0.5 mm ²
Housing material	PTFE (FDA 21 CFR 177.1550)
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
Media optimized	Yes
Accessories (not delivered with the sensor): For varivent adapter (#196377), triclamp adapter (DN25 / DN32 / DN40 #196356, DN50 #196357), welding socket (#196355)	

Capacitive Sensors S26 with hemis-pherical active surface for level control of products with a dielectric constant & from 1,1. Products can be:

- Bulk material, like plastic granules, powder, cereals, etc.
- Liquids, like water, juice, wine, oil, chemicals or pharmaceutical solutions and much more.
- Pastes in the food, pharmaceutical and cosmetics industry



* With sealed potentiometer screw





Capacitive Sensors Series Leak - ATEX

Housing Ø 50 mm

- For use in areas with the risk of gas explosion, zone 0
- Leakage control in clean room / Alarm for containers and pipelines. Mounting in "drip trays" of plastic, glass or metal
- Housing material: PTFE
 Semiconductor Industry, Chemical Industry

DMT 03 ATEX E 048	IECEx BVS 07.0031
(Ex) II 1G Ex ia IIC T1-T6 Ga	Ex ia IIC T1-T6 Ga













Technical data	Flush mountable
Operating distance S _n	4.5 mm
Electrical version	2-wire DC
Output function	NAMUR DIN 60947-5-6
Type current	KAS-40-39/23-N-D50-PTFE-Z02-1-Leak-1G
Туре	KAS-40-LEAK-D50-PTFE-N
ArtNo.	KA 9037
Operating voltage (U _B)	5 - 15 V DC, U _i = 15 V DC
Output current active surface free	< typ. 1.5 mA
Output current active surface covered	> typ. 2.5 mA
Self-inductance (L)	0.2 mH
Self-capacitance (C)	250 nF
Permitted residual ripple max.	10 %
Permitted ambient temperature	0+60 °C
LED-display	Red
Degree of protection IEC 529	IP 67*
Connection cable	2 m, FEP, screened, 2 x 0.14 mm
Housing material	PTFE (FDA 21 CFR 177.1550)
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PTFE (FDA 21 CFR 177.1550)



^{*} With sealed potentiometer screw



Inductive Sensors Serie 30 - NAMUR EN 60947-5-6

Housing Ø 6.5 mm

- For use in areas with the risk of gas explosion, zone 0
- For use in areas with the risk of dust explosion, zone 20
- Housing material: PEEK
- Sensing distance Sn = 1.5 mm

DMT 03 ATEX E 048	IECEx BVS 07.0031
(Ex) II 1G Ex ia IIC T1-T6 Ga	Ex ia IIC T1-T6 Ga
⟨Ex II 1D Ex ia IIIC T101°C Da	Ex ia IIIC T101°C Da







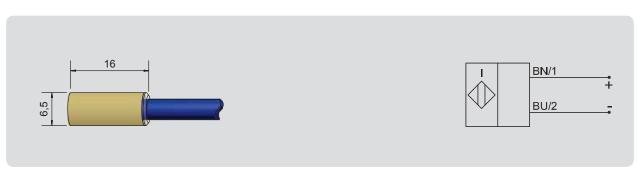








Technical data	Flush mountable
Operating distance S _n	1.5 mm
Electrical version	2-wire DC
Output	NAMUR EN 60947-5-6
Type current	IAS-30-6.5/16-N-D6.5-PEEK-Z02-0-1G-1D
Туре	IAS-30-6.5-N-K-PEEK-StEx
ArtNo.	IA 0344
Operating voltage (U _B)	5 - 15 V DC, U _i = 15 V DC
Operating current active surface free	> typ. 2 mA
Operating current active surface covered	< typ. 1.5 mA
Self-inductance (L)	2 mH
Self-capacitance (C)	250 nF
Permitted residual ripple max.	5 %
Frequency of operating cycles max.	500 Hz
Permitted ambient temperature	-20+70 °C
Degree of protection IEC 60529	IP 67
Connection cable	2 m PVC, 2 x 0.14 mm²
Housing material	PEEK (FDA 21 CFR 177.2415)
Active surface	PEEK (FDA 21 CFR 177.2415)
Lid	PC (FDA 21 CFR 177.1580)







LevelMaster - Capacitive Sensors

Model G 1/2"

For level control of liquids, bulk material or pastes Ideal for level control in the Food Industry or Pharmaceutical Industry

- · Housing material: PEEK
- Adjustment of the sensitivity with ETW- Function (EasyTeach by wire)
- With flange connector M 12 x 1
- · Welding sockets and Varivent adapter available for EHEDG conform mounting
- Useable for an ambient temperature up to +100 °C























Technical data	Non-flush mountable
Level sensor, in contact with the product	Medium dependent adjustable
Operating distance min. / max. adjustable	110 mm
Electrical version	3-pin DC
Output function	Normally open
Type PNP	KAS-80-A23-S-G1/2-PEEK-100C-Y3-ETW-NL
ArtNo.	KA 1644
Operating voltage (U _B)	1230 V DC
Voltage drop max. (U _d)	≤ 2.0 V
Permitted residual ripple max.	5 %
Operating current (I _e)	0200 mA
No-load current (I _o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-25+100 °C / CIP 121 °C
LED-display	Yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2
Connection	Flange connector M 12 x 1 (A-coded)
Housing material	PEEK (FDA 21 CFR 177.2415)

Accessories (not delivered with the sensor): Varivent Adapter art.No. 196395, Welding

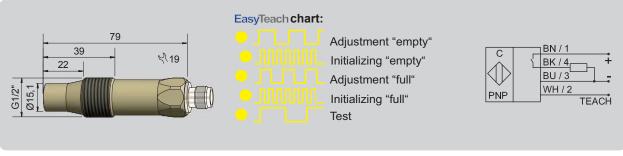
Socket art.No. 196394 and matching connectors please see our selection of accessories.

Capacitive Sensors for level control of products with a dielectric constant ε , from 1,1. Products can be:

- Bulk materials, such as grain, sugar, granulates.
- Liquids, oil, chemicals or pharmaceutical solutions and much more.

Highlights:

- · EHEDG conform
- Measurement is independent of the mounting position



PEEK (FDA 21 CFR 177.2415)

#193391, #193392

Made in Germany

Active surface

sensor)

Matching connectors (not delivered with the



Capacitive Sensors - S26 Series 80 - PNP

Type of construction G 1/2"

Housing material: PEEK





















Intertek High Performance	Quattros Protect*
Technical data	Non-flush mountable
Level sensor, in contact with the product	Medium dependent adjustable
Operating distance min. / max. adjustable	010 mm
Electrical version	4-wire DC
Output function	Antivalent
Type PNP	KAS-80-26/105-A-G1/2-PEEK-Z02-1-HP
ArtNo.	KA 1244
Operating voltage (U _B)	1035 V DC
Voltage drop max. (U_d)	≤ 2.0 V
Permitted residual ripple max.	10 %
Operating current (I _e)	2 x 0200 mA
No-load current (I _o)	Typ. 15 mA
Frequency of operating cycles max.	2 Hz
Permitted ambient temperature	-25+70 °C / CIP 121 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection cable	2 m, PVC, 4 x 0.34 mm ²
Housing material	PEEK (FDA 21 CFR 177.2415)
Active surface	PEEK (FDA 21 CFR 177.2415)
Lid	PA
Media optimized	Yes
Varivent N Adapter EHEDG certified (not delivered with the sensor):	# 196395
Welding Socket EHEDG certified (not delivered with the sensor):	# 196394

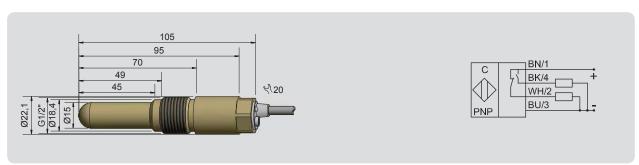
Capacitive Sensors S26 with hemispherical active surface for level control of products with a dielectric constant ε , from 1,1. Products can be:

- Bulk material, like plastic granules, powder, cereals, etc.
- Liquids, like water, juice, wine, oil, chemicals or pharmaceutical solutions and much more.
- Pastes in the food, pharmaceutical and cosmetics industry

Advantages:

- EHEDG-Certified
- Measurement is independent of the mounting position
- Permitted pressure on the active area: 10 bar

^{*} With sealed potentiometer screw







LevelMaster - Capacitive Sensors - S26

Model G 1/2"

For level control of conductive and/or viscous liquids or pastes, for instance oil, water, ketchup or honey. Ideal for level control in the Food Industry or Pharmaceutical Industry

- Housing material: Stainless steel VA No. 1.4305 (AISI 303)
- · Adjustment of the sensitivity with ETW- Function (EasyTeach by wire)
- With flange connector M 12 x 1
- · Welding sockets and Varivent adapter available for EHEDG conform mounting























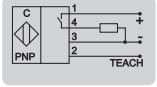
Technical data	Non-flush mountable
Sensitivity	Dielectric constant $\varepsilon_r > 1.25$
Electrical version	3-pin DC
Output function	Normally open
Factory setting	Water
Typ PNP	KS-801-26/136-S-G1/2-PEEK/VAb-120C-Y3-ETW-HP
Art. No.	KA 1562
Operating voltage (U _B)	12.535 V DC
Voltage drop max. (U _d)	≤ 2.0 V
Operating current (I _e)	0250 mA
No-load current (I _o)	Typ. < 30 mA
Frequency of operating cycles max.	1 Hz
Permitted ambient temperature	0+70 °C / CIP 121 °C
Permitted product temperature	-10+120 °C
LED-display	Green / orange
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67, IP 69K
Norm	EN 60947-5-2*
Connection	Connector M 12 x 1
Operating pressure	Max. 10 bar
Housing material	Stainless steel VA No. 1.4305 / AISI 303
Material active surface	PEEK (FDA 21 CFR 177.2415)
Accessories (not delivered with the sensor): Varivent Adapter art.No. 196395, Welding Socket art.No. 196394 and matching connectors please see our selection of accessories.	

Capacitive Sensors S26 with hemispherical active surface for level control of products with a dielectric constant $\mathcal{E}_{_{\rm F}}$ from 1,25. Products can be:

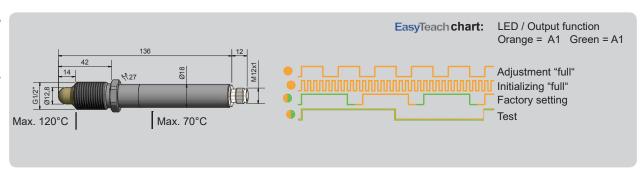
 Liquids, like water, juice, wine, oil, chemicals or pharmaceutical solutions and much more.

Highlights:

- · EHEDG conform
- Measurement is independent of the mounting position
- Permitted pressure on the active area: 10 bar



^{*}Where applicable





Capacitive Sensors - S26 Series 40 - NAMUR EN 60947-5-6 - StEx - ATEX

Process connection: G 1/2"

- For use in areas with the risk of gas explosion, zone 0
- For use in areas with the risk of dust explosion, zone 20
- · Housing material: PEEK

DMT 03 ATEX E 048	IECEx BVS 07.0031
⟨Ex⟩ II 1G Ex ia IIC T1-T6 Ga	Ex ia IIC T1-T6 Ga
€x II 1D Ex ia IIIC T101°C Da	Ex ia IIIC T101°C Da













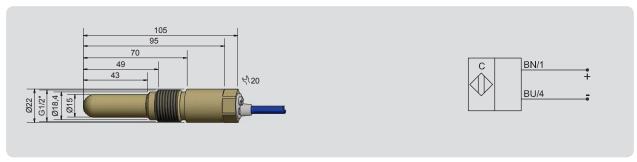




Technical data	Non-flush mountable
Level sensor, in contact with the product	Medium dependent adjustable
Operating distance min. / max. adjustable	010 mm
Electrical version	2-wire DC
Output function	NAMUR EN 60947-5-6
Type current	KAS-40-26/104-N-G1/2-PEEK-Z02-1-HP-1G-1
Туре	KAS-40-26-N-K-G1/2"-PEEK-StEx
ArtNo.	KA 1514
Operating voltage (U _B)	5 - 15 V DC, Ui = 15 V DC
Operating current active surface free	< typ 1.5 mA
Operating current active surface covered	> typ. 2.5 mA
Self-inductance (L)	0.2 mH
Self-capacitance (C)	250 nF
Permitted residual ripple max.	5 %
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-20+70 °C
LED-display	Yellow
Degree of protection IEC 60529	IP 67*
Connection cable	2 m, PVC, 2 x 0.14 mm ²
Housing material	PEEK (FDA 21 CFR 177.2415)
Active surface	PEEK (FDA 21 CFR 177.2415)
Lid	PC (FDA 21 CFR 177.1580)
Media optimized	Yes
Accessory : Varivent Adapter, Welding Socked delivered with the sensor).	et (Please see our range of accessories, not

Capacitive Sensors S26 with hemispherical active surface for level control of products with a dielectric constant ε , from 1,1. Products can be:

- Bulk material, like plastic granules, powder, cereals, etc.
- Liquids, like water, juice, wine, oil, chemicals or pharmaceutical solutions and much more.
- Pastes in the food, pharmaceutical and cosmetics industry



* With sealed potentiometer screw





Capacitive Sensors - S26 Series 80 - PNP - O IO-Link

Type of construction G 1"

- Housing material: PTFE
- With flange connector M 12 x 1
- Operating distance adjustable with EasyTeach by Wire
- · Optical guidance during the teach process with the aid of a 2-colour LED





















Capacitive Sensors S26 with hemis-



Technical data	Non-flush mountable
Level sensor, in contact with the product	Medium dependent adjustable
Operating distance min. / max. adjustable	020 mm
Electrical version	4 - pin DC
Output function	Antivalent
Type PNP	KAS-80-26/113-A-G1-PTFE-100C-IOL-Y10-ETW

Operating distance min. / max. adjustable	020 mm
Electrical version	4 - pin DC
Output function	Antivalent
Type PNP	KAS-80-26/113-A-G1-PTFE-100C-IOL-Y10-ETW- HP
ArtNo.	KA 1591
Operating voltage (U _B)	1035 V DC
Voltage drop max. (U _d)	≤ 2.0 V
Permitted residual ripple max.	10 %
Operating current (I _e)	2 x 0250 mA
No-load current (I _o)	Typ. 15 mA
Frequency of operating cycles, standard	7 Hz
Frequency of operating cycles, adjustable with IO-Link	240 Hz
Permitted ambient temperature	-25+100 °C / CIP 121 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2
Connection	Flange connector M 12 x 1 (A-coded)
Housing material	PTFE (FDA 21 CFR 177.1550)
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)

pherical active surface for level control of products with a dielectric constant & from 1,1. Products can be:

- Bulk material, like plastic granules, powder, cereals, etc.
- · Liquids, like water, juice, wine, oil, chemicals or pharmaceutical solutions and much more.
- · Pastes in the food, pharmaceutical and cosmetics industry

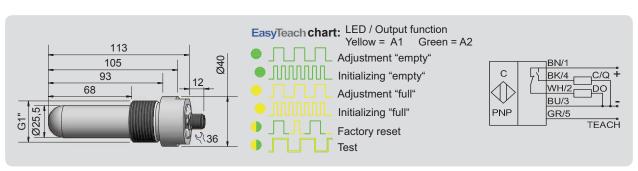
IO-LINK - INTERFACE

Device ID: 1d/000001h Vendor ID: 1129d/0469h Baudrate: COM 3 (230.4 kbaud)

Revision: 1.1

Profiles: Smart Sensor SIO mode: yes Port Class: A

Media optimized Accessories (not delivered with the sensor): For varivent adapter, triclamp adapter, welding socket and matching connectors please see our selection of accessories.





Capacitive Sensors - S26 Series 80 - PNP - **O** IO-Link

Type of construction Triclamp DN 25

- Housing material: PTFE
- With flange connector M 12 x 1
- · Operating distance adjustable with EasyTeach by Wire
- · Optical guidance during the teach process with the aid of a 2-colour LED























Intertek High Performance	EasyTeach For Food
Technical data	Non-flush mountable
Level sensor, in contact with the product	Medium dependent adjustable
Operating distance min. / max. adjustable	020 mm
Electrical version	4 - pin DC
Output function	Antivalent
Type PNP	KAS-80-26/113-A-TRI-PTFE-100C-IOL-Y10- ETW-HP
ArtNo.	KA 1590
Operating voltage (U _B)	1035 V DC
Voltage drop max. (U _d)	≤ 2.0 V
Permitted residual ripple max.	10 %
Operating current (I _e)	2 x 0250 mA
No-load current (I _o)	Typ. 15 mA
Frequency of operating cycles, standard	7 Hz
Frequency of operating cycles, adjustable with IO-Link	240 Hz
Permitted ambient temperature	-25+100 °C / CIP 121 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2
Connection	Flange connector M 12 x 1 (A-coded)
Housing material	PTFE (FDA 21 CFR 177.1550)
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PA / PPO
Media optimized	Yes

Accessories (not delivered with the sensor): For varivent adapter, triclamp adapter, welding

socket and matching connectors please see our selection of accessories.

Capacitive Sensors S26 with hemispherical active surface for level control of products with a dielectric constant & from 1,1. Products can be:

- Bulk material, like plastic granules, powder, cereals, etc.
- Liquids, like water, juice, wine, oil, chemicals or pharmaceutical solutions and much more.
- Pastes in the food, pharmaceutical and cosmetics industry

IO-LINK - INTERFACE

Device ID: 1d/000001h Vendor ID: 1129d/0469h Baudrate: COM 3 (230.4 kbaud)

Revision: 1.1

Profiles: Smart Sensor SIO mode: yes Port Class: A

EasyTeach chart: LED / Output function Yellow = A1 Green = A2 68 40 Adjustment "empty" BN/1 C/Q + Initializing "empty" С BK/4 DO WH/2 Adjustment "full" BU/3 Initializing "full" PNP GR/5 Factory reset TEACH





Capacitive Sensors - S26 Series 80 - PNP

Type of construction G 1"

- Housing material: PTFE
- With flange connector M 12 x 1
- Output function (Antivalent / 2 x normally open / 2 x normally closed) selectable with EasyTeach by Wire
- Operating distance adjustable with EasyTeach by Wire
- Optical guidance during the teach process with the aid of a 2-colour LED





















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Capacitive Sensors S26 with hemispherical active surface for level control of products with a dielectric constant & from 1,1. Products can be:

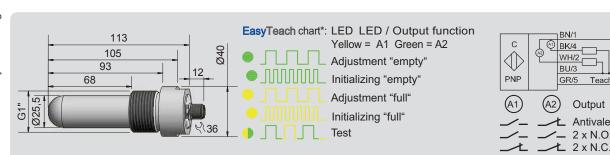
- Bulk material, like plastic granules, powder, cereals, etc.
- · Liquids, like water, juice, wine, oil, chemicals or pharmaceutical solutions and much more.
- · Pastes in the food, pharmaceutical and cosmetics industry

Highlights:

The sensor has three different output modes:

- · Antivalent (factory setting)
- · 2 x Normally open
- 2 x Normally closed

With the normally closed and normally open versions, two switching points can be set independently of each other.



*Factory setting: Antivalent. Further EasyTeach settings can be found in the operating instructions.

Made in Germany

BN/1

WH/2

BU/3

GR/5

Teach

Output

Antivalent

2 x N.O.



Capacitive Sensors

Series 80 - PNP **EasyMount**

Housing 34 x 34 x 5 mm

Capacitive sensor for level control of liquids, very suitable for a measurement through non-metallic container walls.

- Output function (Antivalent / 2 x normally open / 2 x normally closed) selectable with EasyTeach by Magnet (ETM)
- · Sensitivity adjustment with ETM
- · Housing material: PA
- Easy to mount, by screwing or gluing
- Watertight
- Flat housing 5 mm













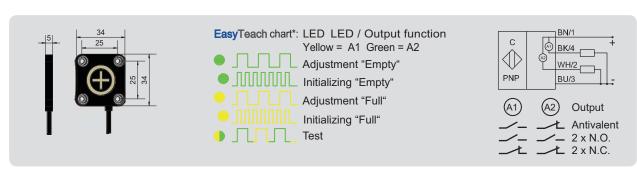
Technical data	Flush mountable
Operating distance S _n	5 mm
Operating distance min. / max. programmable	010 mm
Electrical version	4 wire DC
Output function*	Antivalent
Type PNP	KAS-80-C30EM/5-P3-34x34x5-PA-Z02-ETM-HP
ArtNo.	KA 8981
Operating voltage (U _B)	1035 V DC
Voltage drop max. (U _d)	≤ 2.0 V
Permitted residual ripple max.	10 %
Operating current (I _e)	0200 mA
No-load current (I _o)	Typ 15 mA
Frequency of operating cycles max.	100 Hz
Permitted ambient temperature	-25+70°C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2
Connection cable	2 m PVC, 4 x 0.14 mm ²
Housing material	PA
Media optimized	Yes

Highlights:

The sensor has three different output modes:

- Antivalent (factory setting)
- 2 x Normally open
- 2 x Normally closed

With the normally closed and normally open versions, two switching points can be set independently of each other.



^{*}Factory setting: Antivalent. Further EasyTeach settings can be found in the operating instructions.





■-LEVEL Capacitive Filling Level Probe Analogue current output 20...4 mA

- Integrated evaluation electronics
- EasyTeach by Wire
- Current output 20 mA = min. level / 4 mA = max. level
- Housing material: PTFE / Stainless steel VA No. 1.4305 / AISI 303
- Process connection G 1/2"











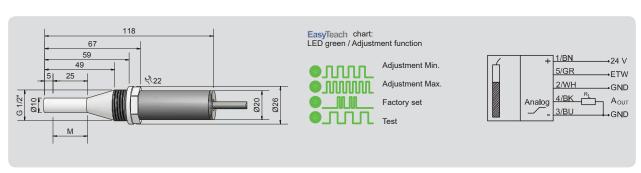








Technical data	
Active zones [M]	25 mm
Electrical version	5-wire DC
Output function	Analogue
Туре	KFI-1-49-25-PTFE/VAb-D10-G1/2-IL20-ETW-Z02
ArtNo.	KI 0124
Operating voltage (U _B)	1530 V DC
Permitted residual ripple max.	5 %
Load resistance (R ₁)	≤ 200 Ω
Power consumption (outputs no-load)	0,9 W
Analogue output	204 mA
Permitted ambient temperature	-25+70 °C
LED-Display	Green
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2*
Connection cable	2 m, PVC, 5 x 0.34 mm ²
Housing material	Stainless steel VA No 1.4305 / AISI 303
Active zone	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)



*Where applicable Made in Germany



i-LEVEICapacitive Filling Level Probe - KFI Voltage output analogue 0...10 V

- · Integrated evaluation electronics
- · Easy Teach by wire
- Voltage output 0 V = min. level / 10 V = max. level
- Housing material: PTFE / Aluminium
- Process connection M 12 x 1









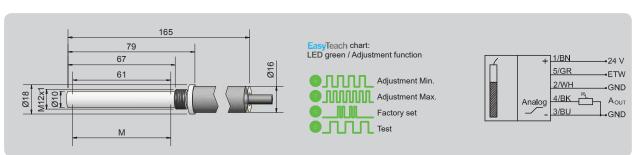








Technical data	
Active zones [M]	61 mm
Electrical version	4-wire DC
Output function	Analogue
Туре	KFI-1-67-61-PTFE/AL-D10-M12-UL0-ETW-Z02
ArtNo.	KI 0125
Operating voltage (U _B)	1530 V DC
Permitted residual ripple max.	5 %
Load resistance (R _L)	≥ 2 kΩ
Power consumption (outputs no-load)	0,9 W
Analogue output	010 V
Permitted ambient temperature	-25+70 °C
LED-Display	Green
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2*
Connection cable	2 m, PVC, 5 x 0.34 mm ²
Housing material	Aluminium
Active zone	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)



*Where applicable





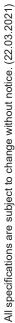
Capacitive Filling Level Probe - KFS Series: PER LEVEL® 1 Limit value switching point

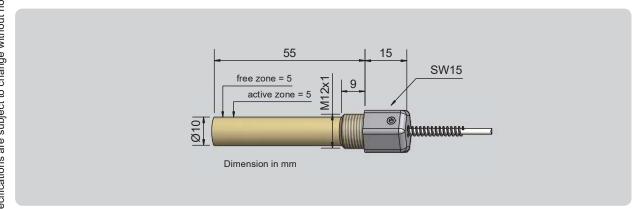
- For connection to capacitive amplifiers KFA-5-...-Y90
- Housing material: PEEK, Ø 10 mm / M 12 x 1
- Probe length 55 mm





Technical data	
Active zone	5 mm, related to probe tip
Туре	KFS-51-5-55-5-PEEK-D10-M12-X0E-Y95
ArtNo.	KF 0455
Permitted ambient temperature	-50+250 °C
Degree of protection IEC 60529 (Probe)	IP 67
Connection cable to the evaluation unit KFA-5Y90 BE cable	0.3 m FEP, coax-cable with triax-connector 0,5 m silicone
Housing material	PEEK (FDA 21 CFR 177.2415)
Housing material active zone	PEEK (FDA 21 CFR 177.2415)









i-LEVEL Capacitive Filling Level Probe - KFI Analogue current output 4...20 mA

- · Integrated evaluation electronics
- Easy Teach by wire
- Housing material: PEEK, Ø 16 mm
- Connection head and process connection stainless steel VA no. 1.4404 / AISI 316L
- Process connection G1"
- With flange connector M 12 x 1 (5-pin Teach function included)







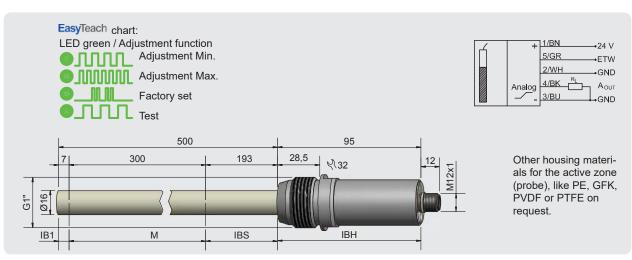








Technical data	
Active zones [M]	300 mm
Electrical version	4 - pin DC
Output function	Analogue
Type	KFI-1-500-300-PEEK/VAc-D16-G1-IL4-ETW-Y10
ArtNo.	KI 0167
Operating voltage (U _B)	1530 V DC
Permitted residual ripple max.	5 %
Load resistance (R ₁)	≤ 200 Ω
Power consumption (outputs no-load)	0,9 W
Analogue output	420 mA
Permitted ambient temperature	-25+70 °C
LED-Display	Green
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2*
Connection	Flange connector M 12 x 1 (A-coded / 5-pin)
Housing material	Stainless steel VA No. 1.4404 / AISI 316L
Active zone	PEEK (FDA 21 CFR 177.2415)
Lid	PC (FDA 21 CFR 177.1580)
For matching connectors please see our selection of accessories.	



*Where applicable







PERLEVEL Capacitive Filling Level Probe - KFS 1 Limit value switching point

- For connection to capacitive amplifiers KFA-5-...-Y50 Housing material: PEEK, \varnothing 10 mm
- Probe length 100 mm







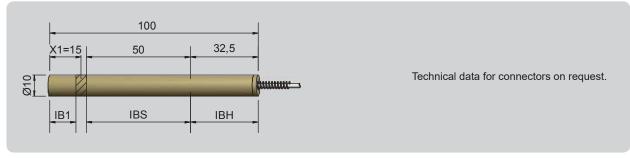






Technical data	
Active zone	15 mm, related to probe tip
Туре	KFS-51-15-100-15-PEEK-D10-X02-Y55
ArtNo.	KF 0304
Permitted ambient temperature	-70+250 °C
Degree of protection IEC 60529 (Probe)	IP 67
Norm	EN 60947-5-2
Connection cable to the evaluation unit KFA-5Y50	2 m FEP, coax-cable with coax-connector
Housing material	PEEK (FDA 21 CFR 177.2415)
Housing material active zone	PEEK (FDA 21 CFR 177.2415)

All specifications are subject to change without notice. (22.03.2021)







■-LEVEL Capacitive Filling Level Probe - KFI Analogue current output 4...20 mA

- · Integrated evaluation electronics
- · Easy Teach by wire
- Housing material: PEEK, Ø 16 mm











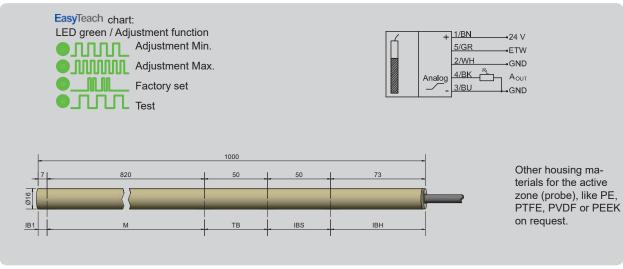




Technical data	
Active zones [M]	820 mm
Electrical version	4 - wire DC
Output function	Analogue
Туре	KFI-1-1000-820-PEEK-D16-TB50-IL4-ETW-Z02
ArtNo.	KI 0200
Operating voltage (U _B)	1530 V DC
Permitted residual ripple max.	5 %
Load resistance (R _L)	≤ 200 Ω
Power consumption (outputs no-load)	0,9 W
Analogue output	420 mA
Permitted ambient temperature	-25+70 °C
Permitted ambient temperature (for active zone)	-25+200 °C
LED-Display	Green
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2*
Connection cable	2 m, PVC, 5 x 0.34 mm²
Housing material	PEEK (FDA 21 CFR 177.2415)
Active zone	PEEK (FDA 21 CFR 177.2415)
Lid	PC (FDA 21 CFR 177.1580)

Accessories for mounting (not delivered with the probe) please see our selection of accessories.

*Where applicable







ii-LEVEL Capacitive Filling Level Probe - KFI Analogue current output 4...20 mA

- · Integrated evaluation electronics
- · Easy Teach by wire
- Housing material: PEEK, Ø 16 mm









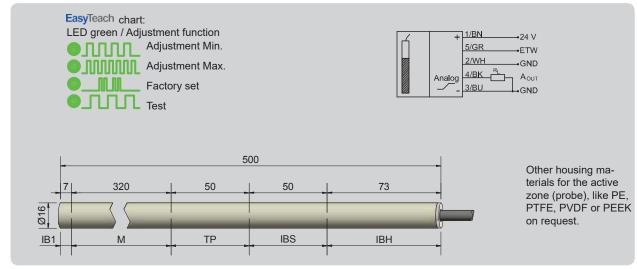






Technical data	
Active zones [M]	320 mm
Electrical version	4 - wire DC
Output function	Analogue
Туре	KFI-1-500-320-PEEK-D16-TB50-IL4-ETW-Z02
ArtNo.	KI 0157
Operating voltage (U _B)	1530 V DC
Permitted residual ripple max.	5 %
Load resistance (R _L)	≤ 200 Ω
Power consumption (outputs no-load)	0,9 W
Analogue output	420 mA
Permitted ambient temperature	-25+70 °C
Permitted ambient temperature (for active zone)	-25+200 °C
LED-Display	Green
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2*
Connection cable	2 m, PVC, 5 x 0.34 mm ²
Housing material	PEEK (FDA 21 CFR 177.2415)
Active zone	PEEK (FDA 21 CFR 177.2415)
Lid	PC (FDA 21 CFR 177.1580)
Accessories for mounting (not delivered with the probe) please see	our selection of accessories.

*Where applicable



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i-LEVEL Capacitive Filling Level Probe - KFI

Analogue current output 4...20 mA 2 programmable limit value switching points

- Integrated evaluation electronicsHousing material: GFK, Ø 16 mm
- Connection head and process connection stainless steel VA no. 1.4305 / AISI 303
- Process connection G1"
- Multifunction probe: Automatic identification of NPN- / PNP function
- Normally open / normally closed function switchable
- Electronic lock



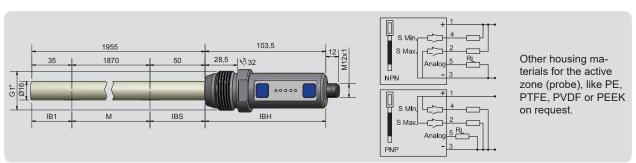








Technical data	
Active zone [mm]	1870 mm
Electrical version	5 - pin DC
Output function	Analogue, 2 limit value switching points, Normally open / normally closed switchable
Туре	KFI-12-1955-1870-GFK/VAb-D16-G1-IL4-ETF-Y10
ArtNo.	KI 0050
Operating voltage (U _B)	1830 V DC
Permitted residual max.	5 %
Load resistance (R _L)	≤ 400 Ohm
Output current	100 mA
Power consumption (outputs no-load)	0,8 W
Analogue output	420 mA
Switching frequency max.	1 Hz
Permitted ambient temperature	-25+55 °C
Permitted ambient temperature (for active zone)	-25+100 °C
Pressure	10 bar
LED-Display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2*
Connection	Flange connector M 12 x 1 (A-coded)
Housing material	VA No. 1.4305 / AISI 303 / polyester
Active zone	GFK
For matching connectors please see our selection of accessorie	es.



*Where applicable





TRUE LEVEL Capacitive Filling Level Probe - KFS With analogue measuring range

- For connection to the capacitive amplifier KFA-1-...-Y75
- Housing material: GFK, Ø 16 mm
- Connection head and process connection made of stainless steel VA n. 1.4404 / AISI 316L
- Process connection G 1"
- · Automatic compensation of changes of the dielectric constant









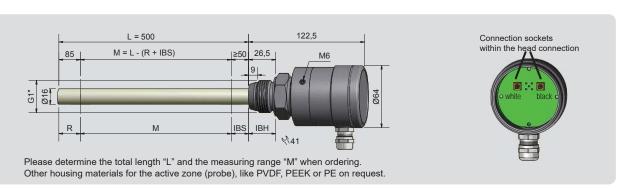








Technical data	
Active Zone [M]	Type dependent
Туре	KFS-1-85-500-M1-GFK/VAc-D16-G1-X00-Y70
ArtNo.	KF 0472
Permitted ambient temperature	-25+100 °C
Permitted ambient temperature (for active zone)	-25+150 °C
Degree of protection IEC 60529 (housing)	IP 67
Degree of protection IEC 60529 (connection cable)	IP 54*
Norm	EN 60947-5-2
Connection to the evaluation unit KFA-1Y75	Sockets within the connection head
Housing material	Stainless steel VA n. 1.4404 / AISI 316L (FDA conform)
Housing material active zone	GFK
Pressure	25 bar
Accessories:	
For evaluation unit KFA-1Y75:	Plug connection Y75 / Y75, 2 m cable length, # 66101201, is not delivered with the probe
For evaluation unit KFA-1Y75:	Plug connection Y75 / Y75, 5 m cable length, # 66101202, is not delivered with the probe
For matching accessories please see our selection of access	ssories.



^{*} The degree of protection may be increased by means of special measures at mounting (e. g. injection of silicone mixture).



TRUE LEVEL* Capacitive filling level probe Analogue voltage output 0...10 V / 10...0 V

- Integrated evaluation electronics
- Adjustable with Easy Teach by Membrane foil (ETF) / Easy Teach by wire (ETW)
- Housing material: PTFE, Ø 16 mm
- Connection head / process connection: Aluminium / Stainless steel VA no. 1.4305 (AISI 303)
- Process connection G1"
- · Additional output in the reference range (normally open / normally closed switchable)







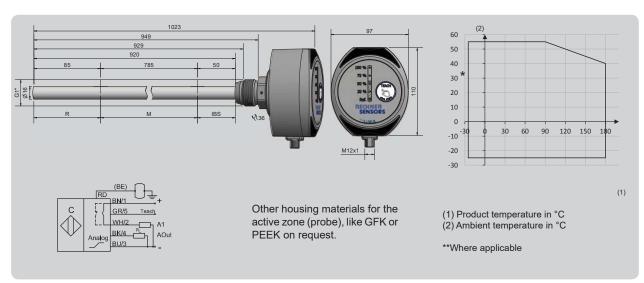








Technical data	
Active zone [M]	865 mm
Output function	Analogue
Туре	KFX-1-85-920-785-PTFE/VAb/AL-D16-PHG1-UL-ET-Y10
ArtNo.	KF 0644
Operating voltage (U _B)	1836 V DC
Operating current (I _e)	0250 mA
Permitted residual ripple max.	25 %
Load resistance (R _L)	≤ 600 Ω
Power consumption (outputs no-load)	3 W
Analogue output	010 V / 100 V
Permitted ambient temperature	-25+55 °C
Permitted product temperature	-25+180 °C*
LED-Display	Green / blue
Protective circuit	Built-in
Degree of protection IEC 60529	IP 65
Norm	EN 60947-5-2**
Connection	Flange connector M 12 x 1 (A-coded) (5-pin)
Connection head / process connection	Aluminium / Stainless steel VA no. 1.4305 (AISI 303)
Housing material (active zone)	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
For matching connectors please see our selection of accessories.	







Isolating Switching Amplifier - ATEX N-132/2-10 24 V DC

- To connect **two NAMUR-Sensors** or potential-free mechanical contacts which are mounted in the zones 0, 1, 2 (Gas) or 20, 21, 22 (dust)

 Compact design only 17.6 mm width
- Removable screw terminals
- Indication sensor wire-break or shortcircuit via relay contact
- For applications up to SIL 2 according to IEC 61508

BVS 09 ATEX E 087X	IECEx BVS 10.0088X
⟨⟨x⟩ II (1)G [Ex ia Ga] IIC	[Ex ia Ga] IIC
⟨Ex II (1)D [Ex iaDa] IIIC	[Ex ia Da] IIIC





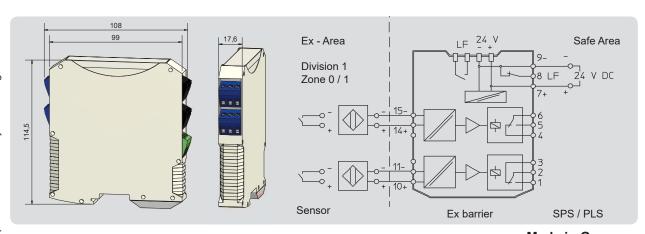








Technical data	
Operating voltage (U _B)	1831.2 V DC
Output function	2 x change-over contact potential-free
Contact rating each relay AC max.	250 V AC / 4 A
Contact rating each relay DC max.	250 V DC / 2 A
Туре	N-132/2-10
ArtNo.	N 00017
Output voltage max. (U _o)	9.6 V DC
Output current max. (I _o)	20 mA
Outer inductance max. (L _o)	[Ex ia] IIC 90 mH / IIB 340 mH
Outer capacitance max. (C _o)	[Ex ia] IIC 3.6 μF / IIB 26 μF
Actuating signal	NAMUR EN 60547-5-6
Permitted ambient temperature	-20+70 °C
Display	Red / yellow and green
Degree of protection IEC 60529	Housing: IP 30 Terminals: IP 20
Norm	EN 60947-5-6
Safety integrity level (IEC 61508)	SIL 2
Connection	Screw terminals





Capacitive Sensors - S26 Series 80 - PNP

- Process connection: G 1/2*
 Housing material: PEEK
 For use in areas with the risk of dust explosion, zone 20
- For use in areas with the risk of gas explosion, zone 1
- SIP / CIP 121 °C
- Special version with flange. Sealing can be made with a gasket or PTFE-tape (not delivered with the sensor)

DMT 01 ATEX E 157	IECEx BVS 07.0015
⟨Ex⟩II 2 G Ex mb IIC T4 Gb	Ex mb IIC T4 Gb
(Ex)II 1/2 D Ex ta/tb IIIC T101°C Da/Db	Ex ta/tb IIIC T101°C Da/Db



















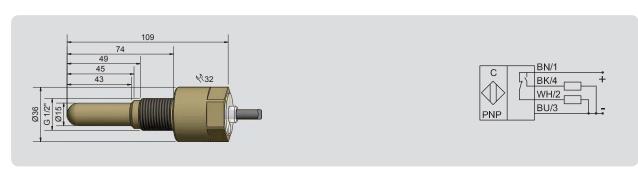




Technical data	Non-flush mountable
Level sensor, in contact with the product	Medium dependent adjustable
Operating distance min. / max. adjustable	010 mm
Electrical version	4-wire DC
Output function	Antivalent
Type PNP current	KAS-80-26/109-A-G1/2-PEEK-Z02-1-HP-2G-1/2D
Type PNP	KAS-80-26-A-K-G1/2"-PEEK-StEx
ArtNo.	KA 1426
Operating voltage (U _B)	1030 V DC
Voltage drop max. (U _d)	≤ 2.0 V
Permitted residual ripple max.	10 %
Operating current (I _e)	2 x 0150 mA
No-load current (I _o)	Typ. 15 mA
Frequency of operating cycles max.	2 Hz
Permitted ambient temperature	-25+70 °C / CIP 121° C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection cable	2 m, PVC, 4 x 0.5 mm ²
Housing material	PEEK (FDA 21 CFR 177.2415)
Active surface	PEEK (FDA 21 CFR 177.2415)
Lid	PC (FDA 21 CFR 177.1580)
Media optimized	Yes
Accessories (not delivered with the sensor socket and matching connectors please see): For varivent adapter, triclamp adapter, welding our selection of accessories.

Capacitive Sensors S26 with hemispherical active surface for level control of products with a dielectric constant £, from 1,1. Products can be:

- Bulk material, like plastic granules, powder, cereals, etc.
- · Liquids, like water, juice, wine, oil, chemicals or pharmaceutical solutions and much more.
- · Pastes in the food, pharmaceutical and cosmetics industry



* With sealed potentiometer screw





Inductive Sensors Series 10 - PNP - StEx - ATEX

Housing M 12 x 1

- Housing material: Stainless steel VA No. 1.4305 / AISI 303
- For use in areas with the risk of dust explosion, zone 20
- For use in areas with the risk of gas explosion, zone 1
- Sensing distance Sn 4 mm

DMT 01 ATEX E 157	IECEx BVS 07.0015
€x II 2 G Ex mb IIC T4 Gb	Ex mb IIC T4 Gb
(Ex)II 1/2 D Ex ta/tb IIIC T101°C Da/Db	Ex ta/tb IIIC T101°C Da/Db















Technical data	Non-flush mountable
Operating distance S	4 mm
Electrical version	3-wire DC
Output function	Normally open
Type PNP current	IAS-10-A22-S-M12-PTFE/VAb-Z02-0-2G-1/2D
Type PNP	IAS-10-A22-S-StEx
ArtNo.	IA 0375
Operating voltage (U _R)	1030 V DC
Voltage drop max. (U _d)	≤ 2.5 V
Operating current (I _e)	0150 mA
No-load current (I _o)	Typ. 15 mA
Frequency of operating cycles max.	2 kHz
Permitted ambient temperature	-25+90 °C
LED-display	Yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2
Connection cable	2 m, PVC, 4 x 0,14 mm²
Housing material	Stainless steel VA No. 1.4305 / AISI 303
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
Accessories (delivered with the sensor)	2 nuts M 12 x 1





Inductive Sensors Series 30 NAMUR EN 60947-5-6 - StEx -ATEX

Housing M18 x 1

- For use in areas with the risk of dust explosion, zone 20
- For use in areas with the risk of gas explosion, zone 0
- Housing material: PEEK
- With sealing cover and screwing (IP 68)
 With 10 m cable (Outer jacket PUR flame retardant and halogenfree
 Core insulation is PVC, flame retardant)

DMT 03 ATEX E 048	IECEx BVS 07.0031
(Ex) II 1G Ex ia IIC T1-T6 Ga	Ex ia IIC T1-T6 Ga
⟨£x⟩ II 1D Ex ia IIIC T101°C Da	Ex ia IIIC T101°C Da



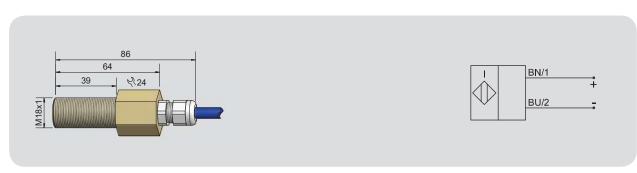








Technical data	Flush mountable
Operating distance S _n	5 mm
Electrical version	2-pin DC
Output	NAMUR EN 60947-5-6
Type current	IAS-30-A13-N-M18-PEEK-Z02-0-1G-1D
Туре	IAS-30-A13-N-K-PEEK-IP68
ArtNo.	IA 0166
Operating voltage (U _B)	5 - 15 V DC, U _i = 15 V DC
Operating current active surface free	> typ. 2 mA
Operating current active surface covered	< typ. 1.5 mA
Self-inductance (L)	2 mH
Self-capacitance (C)	250 nF
Permitted residual ripple max.	5 %
Frequency of operating cycles max.	500 Hz
Permitted ambient temperature	-25+70 °C
Degree of protection IEC 60529	IP 68 / 10 bar
Connection cable	10 m, PUR, blue 2 x 0,75 mm² (6.4 mm ± 0.2)
Housing material	PEEK (FDA 21 CFR 177. 2415)
Active surface	PEEK (FDA 21 CFR 177. 2415)
Lid	PEEK (FDA 21 CFR 177. 2415)
Accessories (delivered with the sensor)	2 nuts M 18 x 1







Capacitive Sensors with analogue output Series 40 - NAMUR EN 60947-5-6

Housing M 30 x 1.5

- For use in areas with the risk of gas explosion, zone 0
- Housing material: Brass
- Operating range 0...24 mm
- Output current 4...20 mA

DMT 03 ATEX E 048	IECEx BVS 07.0031
(Ex) II 1G Ex ia IIC T1-T6 Ga	Ex ia IIC T1-T6 Ga









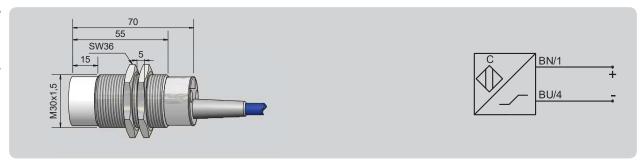








Technical data	Non-flush mountable
Operating range	024 mm
Linear range	019 mm
Electrical version	2-wire DC
Output function	Analogue
Type Analogue current	KAS-40-A24-IL4-M30-PTFE/MS-Z02-1-HP-1G
Type Analogue	KAS-40-A24-IL4
Art. No.	KA 1325
Operating voltage (U _B)	1535 V DC, U _i = 27 V DC
Power consumption active surface free	≤ 4 mA
Power consumption active surface covered	≥ 20 mA
Load resistor	R _L 0500 Ohm
Self-inductance (L)	0.2 mH
Self-capacitance (C)	89 nF
Permitted residual ripple max.	5 %
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	0+70 °C
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-6
Connection cable	2 m, PUR, 2 x 0.75 mm ²
Housing material	Brass
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PA / PPO
Accessories (is delivered with the sensor)	2 pieces nuts M 30 x 1.5



^{*} With sealed potentiometer screw

Made in Germany



Capacitive evaluation units Series KXA-eXtreme

Housing 46,6 x 74,5 x 30 mm

- KXA-... for connection to capacitive sensors KXS-...-M18/... to -M32/...
- Adjustable with EasyTeach by Wire / EasyTeach by Magnet (ETM)



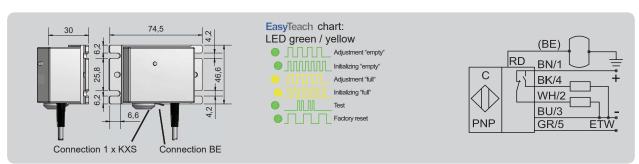








Technical data	
Electrical version	4-wire DC
Output function	Antivalent
Type PNP	KXA-5-1-B-P-A-ET-Z02-Y90
ArtNo.	XA 0064
Operating voltage (U _B)	1836 V DC
Voltage drop max. (U _d)	< 2.5 V
Permitted residual ripple max.	25 %
Operating current (I _e)	2 x 0200 mA
No-load current (I _o)	Typ. 50 mA
Frequency of operating cycles max.	50 Hz
Switching hysteresis	≤ 20%
Repeat accuracy	≤ 1%
Permitted ambient temperature	-25+55 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 65
Norm	EN 60947-5-2
Connection cable	2 m, PVC, 5 x 0.14 mm ²
Housing material	PA
Accessories (delivered with the unit)	Teach magnet







Capacitive evaluation units Series KXA-eXtreme

Housing 46,6 x 74,5 x 30 mm

- KXA-...-MINI for connection to capacitive sensors KXS-...-M5/... to -M16/...
- Adjustable with EasyTeach by Wire / EasyTeach by Magnet (ETM)



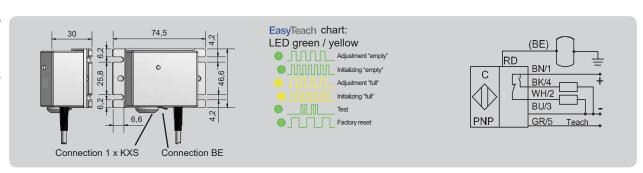








Technical data	
Electrical version	4-wire DC
Output function	Antivalent
Type PNP	KXA-5-1MINI-B-P-A-ET-Z02-Y90
ArtNo.	XA 0065
Operating voltage (U _B)	1836 V DC
Voltage drop max. (U _d)	< 2.5 V
Permitted residual ripple max.	25 %
Operating current (I _e)	2 x 0200 mA
No-load current (I _o)	Typ. 50 mA
Frequency of operating cycles max.	50 Hz
Switching hysteresis	≤ 20%
Repeat accuracy	≤ 1%
Permitted ambient temperature	-25+55 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 54*
Norm	EN 60947-5-2
Connection cable	2 m, PVC, 5 x 0.14 mm ²
Housing material	PA
Accessories (delivered with the unit)	Teach magnet



*In mated condition Made in Germany



Capacitive Evaluator Series KXA-eXtreme

Housing 120 x 120 x 60 mm

- KXA-... for connection of 4 capacitive Sensors KXS-...-M18/... to -M32/...
- Extension by further switching points possible (master / slave function)

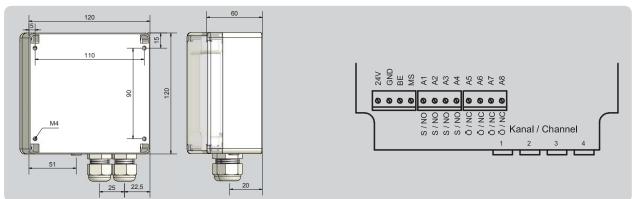








Technical data	
Output function	4 x Antivalent
Type PNP	KXA-5-4-XXL-P-A-1-KL-Y90
ArtNo.	XA 0022
Operating voltage (U _B)	1836 V DC
Operating current max. (I _e)	0250 mA each output
Permitted residual ripple max.	25 %
No-load current (I _o)	Typ. 120 mA
Permitted ambient temperature	-25+55 °C
LED - display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 54
Norm	EN 60947-5-2
Connection	Screw terminals and triax socket
Housing material	ABS







Capacitive Evaluator Series KXA-eXtreme

Housing 120 x 120 x 60 mm

- KXA-...MINI for connection of 4 capacitive Sensors KXS-...-M5/... to -M16/...
- Extension by further switching points possible (master / slave function)



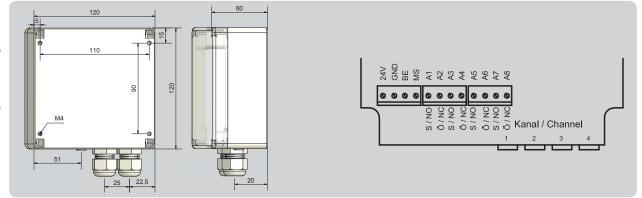






Technical data	
Output function	4 x Antivalent
Type PNP	KXA-5-4MINI-XXL-P-A-1-KL-Y90
ArtNo.	XA 0026
Operating voltage (U _B)	1836 V DC
Operating current max. (I _e)	0250 mA each output
Permitted residual ripple max.	25 %
No-load current (I _o)	Typ. 120 mA
Permitted ambient temperature	-25+55 °C
LED - display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 54
Norm	EN 60947-5-2
Connection	Screw terminals and triax socket
Housing material	ABS









Y95

Capacitive sensors Series KXS-eXtreme

Housing M 30 x 1.5

- Housing material: Stainless steel VA no. 1.4305 / AISI 303
- For connection to capacitive evaluation units KXA-...
- Extreme large sensing distance
- Up to 250° C ambient temperature

















Technical data	Non-flush mountable
Operating distance S _n	60 mm
Operating distance min / max adjustable	5100 mm
Туре	KXS-250-M30/70-X-M30-PTFE/VAb-250C-X02/Y95
ArtNo.	498 004
Permitted ambient temperature	-50+250 °C
Enclosure rating IEC 60529*	IP 67
Norm	EN 60947-5-2
Connection cable for connection to capacitive evaluation units KXA with plug-in connector	2 m FEP, Triax
Housing material	Stainless steel VA no. 1.4305 / AISI 303
Active surface	PTFE (FDA 21 CFR 177.1550)
Accessories (delivered with the sensor)	2 nuts M 30 x 1,5



*Enclosure rating IEC 60529 for connector on request.





Y95

Capacitive sensors Series KXS-eXtreme

Housing M 16 x 1

- Housing material: PEEK
- For connection to capacitive evaluation units KXA-...-MINI-...-...
- Extreme large sensing distance
- Up to 250° C ambient temperature









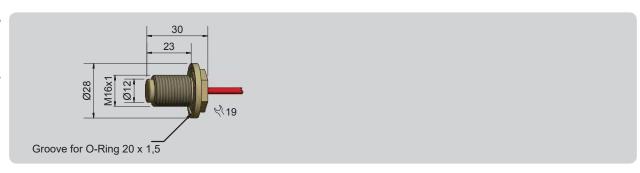








Technical data	Flush mountable
Operating distance S _n	15 mm
Operating distance min / max adjustable	125 mm
Туре	KXS-250-M16/30-X-M16-PEEK-250C-X02/Y95
ArtNo.	KX 0104
Permitted ambient temperature	-50+250 °C
Enclosure rating IEC 60529*	IP 67
Norm	EN 60947-5-2
Connection cable for connection to capacitive evaluation units KXA with plug-in connector	2 m FEP, Triax
Housing material	PEEK (FDA 21 CFR 177.2415)
Active surface	PEEK (FDA 21 CFR 177.2415)



*Enclosure rating IEC 60529 for connector on request.



Customer support guaranteed!

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RECHNER SENSORS

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