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
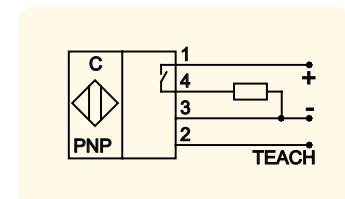- Welding sockets and Varivent adapter available for EHEDG conform mounting.

CE | RoHS Compliant | ETL Intertek | NL NormLine | ETW EasyTeach | PEEK EC 1935/2004 conform | | For Food | High chemical resistance | CIP SIP | EHEDG conform

Technical data	Non-flush mountable
Level sensor, in contact with the product	Medium dependent adjustable
Operating distance min. / max. adjustable	1...10 mm
Electrical version	3-pin DC
Output function	Normally open
Type PNP	**KAS-80-A23-S-G1/2-PEEK-Y10-ETW-NL**
Art.-No.	**KA 1597**
Operating voltage (U_B)	12...30 V DC
Voltage drop max. (U_d)	≤ 2.0 V
Permitted residual ripple max.	5 %
Operating current (I_e)	0...200 mA
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-25...+70 °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)
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 for level control of products with a dielectric constant ε_r from 1,1. Products can be:
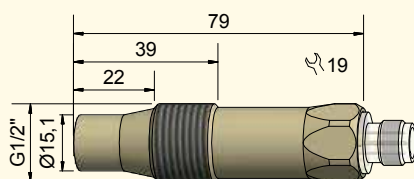
- Bulk materials, such as grain, sugar, granulates.

- Liquids, oil, chemicals or pharmaceutical solutions and much more.

Highlights:

- EHEDG conform

- Measurement is independent of the mounting position

EasyTeach chart:

- Adjustment "empty"
- Initializing "empty"
- Adjustment "full"
- Initializing "full"
- Test

Made in Germany

Level**M**aster

This capacitive sensor is designed for the level control of bulk materials, liquids and pastes dielectric constant (DC) ε_r of 1,1. This sensor is a classic capacitive sensor that reliably detects all kind of materials. Capacitive sensors help to control the level in dosing systems, storage container or prevent the pump for dry running. For product that are high conductive and adhesive we recommend the models of the KS-801-... series.

The material to detect could be bulk material, such as, metal powder, plastic powder, granules, spices, dried herbs, coffee, sugar, cocoa, tabled powder liquids could be for instance, oil, milk products or juice.

ETW
EasyTeach

It could not be easier.
The user mounts the sensor, makes the electrical connection and the adjustment by means of the teach wire and the sensor is ready for use.

No additional teach equipment necessary.

Optical guidance during the teach process with the aid of a LED:
• standby • teach process • switching state

When the sensor is mounted with our adapters: welding socket or the process adapter Varivent N DN 50 a hygienic, EHEDG conforming process connection will be achieved.

Art.-Nr. 196394 Welding socket	Art.-Nr. 190754 Tri-Clamp	Art.-Nr. 196395 Varivent N DN 50	Art.-Nr. 193391 Connector 4 x 0,34, 5 m	Art.-Nr. 193392 Connector 4 x 0,34, 5 m

Directive (EC) 1935/2004

The traceability of the used sensor body material according to the directive (EC) 1935/2004 is confirmed by RECHNER with a conformity declaration, that is provided on the website as download document under certificates.

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