



## 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
Ex II 1/2 D Ex ta/tb IIIC T101°C Da/Db	Ex ta/tb IIIC T101°C Da/Db



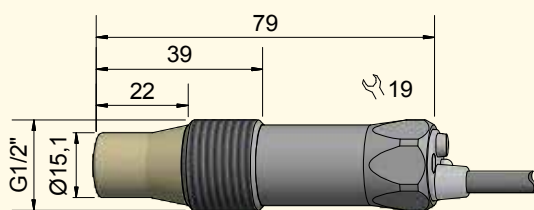
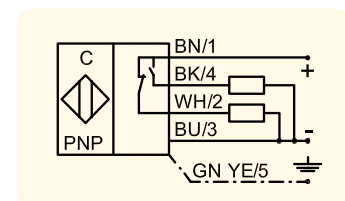
Technical data	Non-flush mountable
Level sensor, in contact with the product	Medium dependent adjustable
Operating distance min. / max. adjustable	0.5...15 mm
Electrical version	4-wire DC
Output function	Antivalent
Type PNP current	KAS-80-A23-A-G1/2-PEEK/VA b-Z03-1-2G-1/2D
Type PNP	KAS-80-A23-A-StEx
Art.-No.	KA 2000
Operating voltage (U <sub>B</sub> )	10...30 V DC
Voltage drop max. (U <sub>o</sub> )	≤ 2.0 V
Permitted residual ripple max.	10 %
Operating current (I <sub>e</sub> )	0...150 mA
No-load current (I <sub>o</sub> )	Typ. 15 mA
Frequency of operating cycles max.	50 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	3 m, PVC, 5 x 0.14 mm <sup>2</sup>
Housing material	Stainless steel VA No. 1.4305 / AISI 303
Active surface	PEEK (FDA 21 CFR 177.2415)
Lid	PC (FDA 21 CFR 177.1580)
Media optimized)	Yes
<b>Accessories</b> (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  $\epsilon_r$  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



\* With sealed potentiometer screw

Made in Germany

# LevelMaster



This capacitive sensor is designed for the level control of bulk materials, liquids and pastes dielectric constant (DC)  $\epsilon_r$  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.



**Not for  
ATEX yet**

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



### 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.

**Made in Germany**

All specifications are subject to change without notice. (06.01.2020)