



## LevelMaster - Capacitive Sensors - S26 - Analogue Output 4 - 20 mA

Model Tri-Clamp DN20

- 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. 1.4404 (AISI 316L)
- Adjustment of the sensitivity with ETW- Function (EasyTeach by Wire)
- With flange connector M 12 x 1
- With programmable analogue output 4 - 20 mA



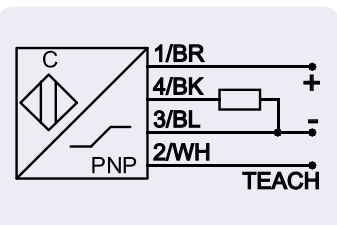
Technical data	Non-flush mountable
Sensitivity	Dielectric constant $\epsilon_r > 1.25$
Electrical version	3-pin DC
Output function	Analogue
<b>Typ Analogue</b>	<b>KS-801-26/86-IL4-TRI-PEEK/VAc-Y3-ETW-HP</b>
<b>Art. No.</b>	<b>KA 1526</b>
Operating voltage ( $U_B$ )	12.5...35 V DC
Output signal	4...20 mA
Output current active surface free	$\leq 4$ mA
Output current active surface covered	$\geq 20$ mA
Load resistor ( $R_L$ )	0...600 Ohm
No-load current ( $I_0$ )	Typ. < 30 mA
Permitted ambient temperature	0...+70 °C / CIP 121 °C
Permitted product temperature	0...+100 °C
LED-display	Green / orange
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67, IP 69K
Norm	EN 60947-5-2, EN 60947-5-7*
Connection	Connector M 12 x 1
Housing material	Stainless steel VA No. 1.4404 / AISI 316L
Material active surface	PEEK (FDA 21 CFR 177.2415)
<b>Accessories</b> (not supplied with the sensor): Welding Socket (on request) and matching connectors (#193393, #193394) please see our selection of accessories.	

Capacitive Sensors of the S26 series with hemispherical active surface for analogue level control of products with a dielectric constant  $\epsilon_r$  from 1,25. Products such as:

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

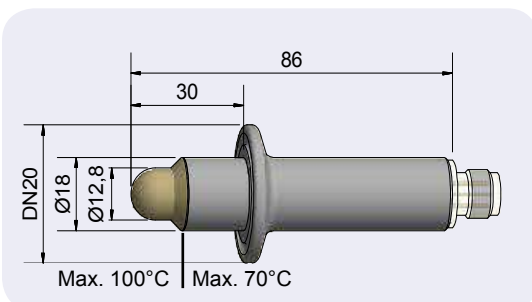
### Highlights:

- With Tri-Clamp DN20 process connection (DIN 32676, row A) for easy and quick mounting
- Measurement is independent of the mounting position



All specifications are subject to change without notice. (16.05.2018)

\*Where applicable



### EasyTeach chart:



**Made in Germany**

# LevelMaster



This capacitive sensor is designed for the analogue level control of liquid or viscous products, which can be conductive and/or viscous and sticky.

Materials like ketchup, mayonnaise, yoghurt, syrups, pastes, or liquids with salt or acids will be reliably detected with the LevelMaster.



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 2-colour LED:

- standby • teach process • switching state

The modern micro controller controlled temperature compensation provides for reliable level control with applications where there are variations in the ambient temperatures.

The sensor body is made of stainless steel material No. 1.4404 (AISI 316L).

## Directive (EC) 1935/2004

The traceability of the used plastic material PEEK 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.

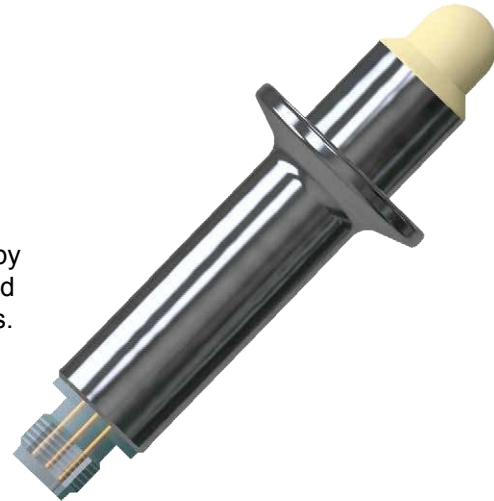
## Applications

Depending on the selected type, the analogue LevelMaster can be used to carry out an analogue fill level measurement across a defined range.

At the same time, it is also possible to detect any signs of pollution so that a cleaning process can be triggered. Another application option is a display of the change in the dielectric constant (DC) of the product to be monitored for quality control. For quality control purposes, the empirically determined starting values can be controlled and analysed using for example a PLC.

In the case of applications with changing media, the empirically determined output can be programmed by the following control system: product A = analogue value X, product B = analogue value Y, product C = analogue value Z, etc.

If the product is changed, simply select the corresponding program in the PLC.



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