



**Technical data** 

Empfindlichkeit

# 

Capacitive Sensors Series 70 - NPN - Series 80 - PNP

Housing G1/2"

- Housing material: LCP
- SIP / CIP 121° C
- Special version with flange. Sealing can be made with
- a gasket or PTFE-tape (not supplied with the sensor)
- Costumer specific setting
- without potentiometer



Level sensor, in contact with the product



Non-flush mountable

Medium dependent adjustable

Typ. ε<sub>r</sub> 2...80





This capacitive level sensor is pre-adjusted for the detection of bulk materials or liquids with a dielectric constant  $\varepsilon_r$  of 2 to 80.

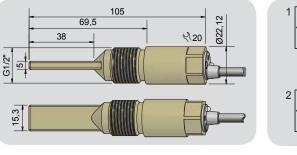
This fully electronic Paddle Sensor has no moving parts and is not subject to wear or tear and thus there is no down time due to false detections caused by material build-up.

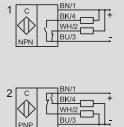
#### Advantages SMARTPADDLE:

- Sensitivity is pre-adjusted
- Measurement is independent of the mounting position
- Permitted pressure on the active area: 10 bar
- Process connection G 1/2"

Electrical version	4-wire DC
Output function	Antivalent
Type NPN	
ArtNo.	
Connection diagram No.	
Type PNP	KAS-80-P50-A-K-G1/2"-LCP-MaG
ArtNo.	KA 1350
Connection diagram No.	2
Operating voltage (U <sub>B</sub> )	1035 V DC
Output current max.	2 x 0200 mA
Voltage drop max. (U <sub>d</sub> )	≤ 2.0 V
Permitted residual ripple max.	10 %
No-load current (I <sub>o</sub> )	Typ. 15 mA
Frequency of operating cycles max.	2 Hz
Permitted ambient temperature	-25+70 °C / CIP 121° C (zero-current)
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 <sup>2</sup>
Housing material	LCP (FDA 21 CFR 176.170(c))
Active surface	LCP (FDA 21 CFR 176.170(c))
Lid	PA
Media optimized	Yes

Accessory: Varivent Adapter, Welding Socket (Please see our range of accessories, not supplied with the sensor).





### Made in Germany

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### RECHNER <sup>-</sup> SENSORS

## Level Measurement in a New Dimension:

The fully electronic paddle sensor.

This capacitive level sensor is designed for the level control of bulk materials and liquids with a dielectric constant (DC) of  $\varepsilon_r$  2 to 80. It is media optimised and pre-adjusted, so that it can cover this large DC spectrum. An adjustment for the product to be detected simply is not necessary.





### It cannot be easier.

The user mounts the sensor, makes the electrical connection and the sensor is ready for use.

The **SMART**PADDLE has no moving parts and is therefore not subject to wear or tear. It is ideal for applications where traditionally Rotary Switches, Vibrating Forks or Mechanical Switches are being used.

The advantages are obvious: easy installation, reliable level control and at the same time solving the wellknown issues of mechanical systems being used today. No more down time due to false detections caused by material build-up, getting stuck between vibrating forks or around rotary switches, etc.

A variant with Easy Teach by Wire is an option for products where the dielectric constant is outside of the preset range.

The sensor's housing material, LCP, is very robust and also suitable for contact with food products.

The sensor has a G 1/2 inch process connection which can be used with a large range of accessories like welding brackets or "Varivent N DN 50" flanges that are offered by Rechner.

Rechner sensors is your specialist for level control!



