

# RECHNER SENSORS

## SMART PADDLE



The new **Smart Paddle** sensor from Rechner Sensors promises to keep level control easy. This capacitive sensor is designed to work in almost the entire range of dielectric constants (2 to 80) **without adjustment** out of the box. This is all due to the brand new, unique, patent pending sensor design and is 35% less expensive than a standard M30 high performance sensor.

Along with the wide sensing range, this sensor also has the following **features**:

- High Performance function, “**Quattro EMC Protect**” electrical protections
- Made of **food contact** safe material LCP (FDA conforming material)
- Safe for **CIP/SIP** high temperature cleaning (zero-current, 121 °C) for the pharmaceutical industry
- Suitable for **high pressure** (10 bar, 145 PSI)

The advantages are obvious: Easy installation and reliable level control that solves the well-known issues of mechanical systems being used today. No more down time due to false detections caused by material build-up, or material getting stuck between vibrating forks and rotary switches.

**Part number breakdown: KAS-80-P50-A-G1/2"-LCP-Z02-ETW-HP with 3/4" NPT adapter**

<b>KAS</b>	Capacitive sensor
<b>80</b>	DC PNP (10-35 VDC)
<b>P50</b>	Length of the sensor (50 mm)
<b>A</b>	Antivalent output (1 NO + 1 NC output wires)
<b>G1/2"</b>	Connection type (1/2" BSPP, British Parallel Pipe Thread)
<b>LCP</b>	Housing material (Liquid Crystal Polymer)
<b>Z02</b>	2 meter cable
<b>ETW</b>	Easy Teach by wire
<b>HP</b>	High Performance



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Suitable for thin liquids, powders, and other solids

$\epsilon_r < 2$	$2 < \epsilon_r < 80$ Suitable range without adjustment	$80 < \epsilon_r$
Polystyrene Foam Light Powders Packaging Flakes.....	Insulating Oil ( $\epsilon_r = 2$ ) Plastic Granulate ( $\epsilon_r = 2$ ) Cocoa or Coffee Powder ( $\epsilon_r = 6$ ) Wood Pallets ( $\epsilon_r = 4$ ) Ferrite Granules ( $\epsilon_r = 50$ ) Water ( $\epsilon_r = 80$ )	Adhesive and/or electrically conductive materials. (Metalpowder, Glue, Saltwater, Aluminium Hydroxide Powder.....)

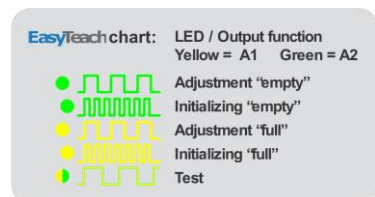
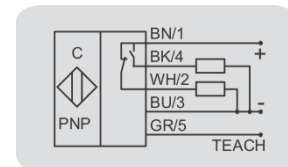
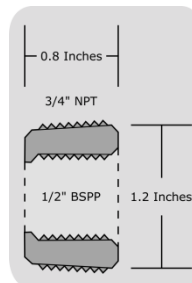
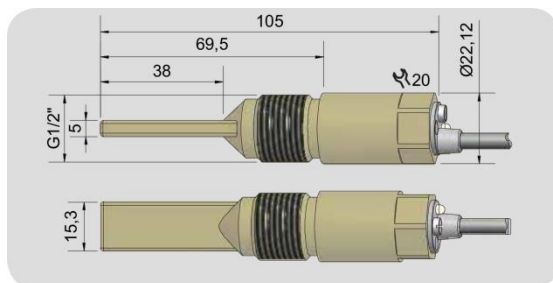
### Viscous Materials

USE a 26-Series sensor

### Conductive Materials

USE the LevelMaster sensor

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



Article number with adapter KA7900

Article number without adapter KA1323