Capacitive Sensors
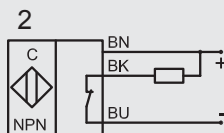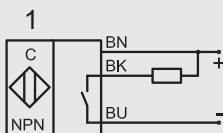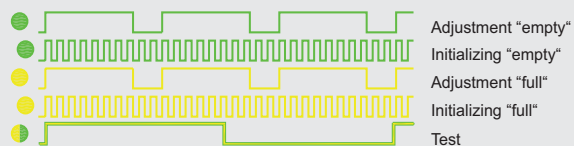### Series 70 - NPN
Series 80 - PNP EasyMount

Housing Ø 30 mm
- EasyTeach by magnet (Magnet is supplied with the sensor)
- Housing material: Polyamid (PA)
- Various mounting possibilities (see accessories)
- Capacitive sensor for level control of liquids or bulk material
- Capacitive sensor for detecting the position of objects
- Watertight

CE | ETL Intertek | RoHS Compliant | HP High Performance | E/C Quattro Protect™ | ETM EasyTeach | IP 68

Technical data	Flush mountable	Flush mountable
Operating distance S_n	5 mm	5 mm
Operating distance min. / max. programmable	0...10 mm	0...10 mm
Electrical version	3 wire DC	3 wire DC
Output function	Normally open	Normally closed
Type NPN	**KAS-70-30EM-S-PA-Z02-ETM-HP**	**KAS-70-30EM-Ö-PA-Z02-ETM-HP**
Art.-No.	**KA 1151**	**KA 1152**
Connection diagram no.	1	2
Type PNP	**KAS-80-30EM-S-PA-Z02-ETM-HP**	**KAS-80-30EM-Ö-PA-Z02-ETM-HP**
Art.-No.	**KA 1147**	**KA 1148**
Connection diagram no.	3	4
Operating voltage (U_B)	10...35 V DC	10...35 V DC
Voltage drop max. (U_d)	≤ 2.0 V	≤ 2.0 V
Permitted residual ripple max.	10 %	10 %
Operating current (I_e)	0...200 mA	0...200 mA
No-load current (I_o)	Typ 15 mA	Typ. 15 mA
Frequency of operating cycles max.	2 Hz	2 Hz
Permitted ambient temperature	-25...+70°C	-25...+70°C
LED-display	Green / yellow	Green / yellow
Protective circuit	Built-in	Built-in
Degree of protection IEC 60529	IP68	IP 68
Norm	EN 60947-5-2	EN 60947-5-2
Connection cable	2 m PVC, 3 x 0.14 mm²	2 m PVC, 3 x 0.14 mm²
Housing material	PA	PA
Accessory supplied with the sensor	Teach magnet	Teach magnet
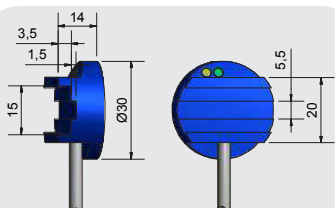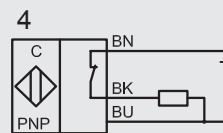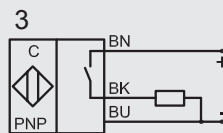
EasyTeach chart:
LED / Output function
Yellow = A1
Green = A1

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

Made in Germany

Capacitive Sensors

- ✓ **for level control of liquids**
- ✓ **for level control of bulk material**
- ✓ **for leakage detection**
- ✓ **for position control of objects ... and much more.**

These small sensors have all that makes the handling and application easy for the user.

EasyMount

+

The mounting is really simple. The sensor itself is featured with excellent technical characteristics and is very small in size. It can be mounted in various ways. It can be glued in the desired position, fixed with a cable tie or it can be mounted with one of the holders from the range accessories.

The sensitivity- or sensing distance adjustment is almost made by itself, thanks to the EasyTeach function.

EasyTeach

In the course of which it does not matter if the magnet is used or the version with EasyTeach by wire is the model of choice. The steps one has to pass through are easy and quick to complete, so the user does not lose time from looking after his core business.

= Simply perfect

With the use of the newest production technologies the components of the sensors are embedded in the plastic body. They are watertight and operate wear-free. All sensors produced from RECHNER Sensors Germany are 100 % tested. The product marking is made with modern laser technology for everlasting identification and traceability.

IP68

Laser product marking

For further information about Rechner Sensors feel free to contact us or visit our web site under www.rechner-sensors.com.

100 % tested