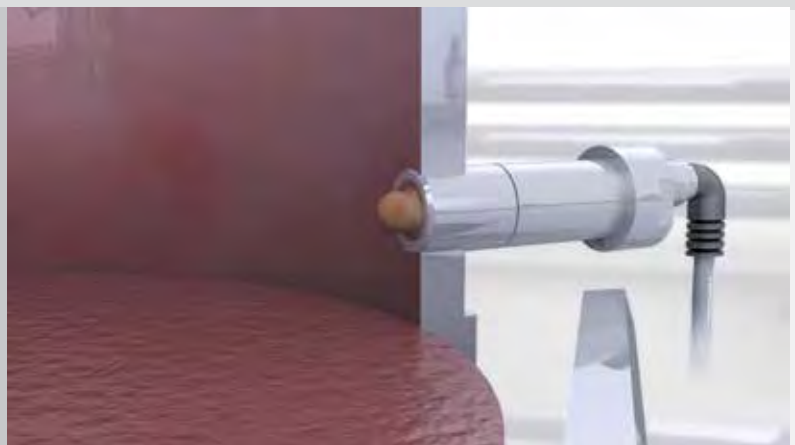


CATALOGUE

SERIES 26 - MODEL RANGE 700/800

Capacitive level sensors for liquids
or pastes, for example:

- Water
- Oil
- Ketchup



CE



Registration No.: 1327-01



For all transactions, the newest version of the „General Conditions of Sale and Delivery for Products and Services of the Electrical Industry ZVEI“ shall apply, along with the supplementary conditions „extended reservation of proprietary rights“, together with the supplements listed on our order confirmations and/or invoices.

All specifications are subject to change without notice. Reprint, even in part, only with our consent.

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Edition June 2013

With publication of this catalogue all former printed catalogues about RECHNER capacitive level sensors of series 26 model range 700/800 are invalid.

All specifications are subject to change without notice. (06/2013)

SERIES 26 • MODEL RANGE 700 (NPN) AND 800 (PNP)

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TYPE SELECTION IN DESCRIPTION NUMBER ORDER	11

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CAPACITIVE SENSORS FOR LEVEL CONTROL OR LIMIT VALUE MEASUREMENT OF LIQUIDS, PASTES OR SYRUP

The capacitive sensors of the 700 (NPN) and 800 (PNP) type series are designed for the detection of liquids with a dielectric constant (DC) ϵ_r of $\geq 1,25$.

For these sensors it is the dielectric constant of the product that is our focus of attention. For this reason it is important for the measurement that the active surface of the sensor (PEEK tip) is in direct contact with the product that should be detected. The sensor tip must be totally immersed into the product.

The Sensors are equipped with our well-tried EasyTeach Function. Both variants are available:

ET = EasyTeach by button

ETW = EasyTeach by wire

With EasyTeach the sensitivity adjustment for the product to be detected is very easy and user-friendly.

Capacitive sensors can activate directly Electronic circuits, PLCs, Relays or Contactors.

APPLICATION EXAMPLE:

The capacitive sensors of the type series 700 and 800 reliably detect the level or existence of liquids or pastes, in containers, tube systems or pipelines.

- Level- or limit value measurement in container
- Product control in tube systems or pipelines
- Drain protection of pumps

A rich variety of products can be detected, for example:

- Vegetable oil, mineral oil
- Vinegar, alcohol, water, beer, syrup, fruit concentrate
- Ketchup, mayonnaise, mustard
- And a lot more.

The materials used for the sensor body are:

- Stainless steel VA, material no. 1.4305
- Polyetheretherketone PEEK (FDA 21 CFR 177.2415)

ACCESSORIES:

In our portfolio we have a range of FDA conforming adapters and process connections. They ensure the hygienic installation and provide the possibility of impeccable cleaning and sterilisation.

For further information about capacitive sensors please use our main catalogue or visit our homepage at: www.rechner-sensors.com.



LevelMaster - Capacitive Sensors Series 26
Series 700 - NPN
Series 800 - PNP



EasyTeach

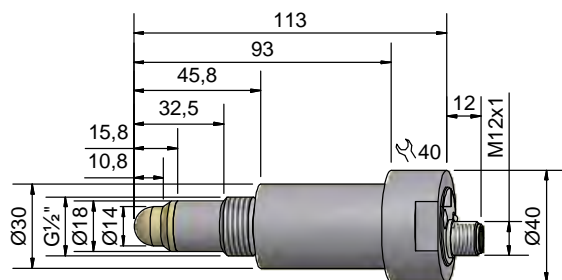
Model G 1/2"

- For level control of conductive liquid or pastes. for instance oil, water or ketchup.
- Housing material: Stainless steel VA
- Antivalent output (NO + NC)
- EasyTeach-Function
- Process connection G 1/2"
- With flange connector M 12 x 1
- Ideal for applications in the food or pharmaceutical industry

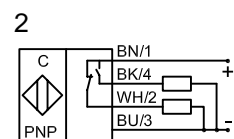
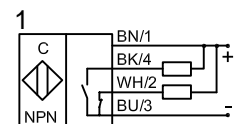
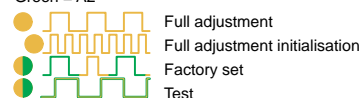
Certifications: EHEDG conform

Technical data	Non-flush mountable
Sensitivity	Dielectric constant $\epsilon_r > 1.25$
Electrical version	4-pin DC
Output function	Antivalent (NO +NC)
Type NPN	KS-700-26-A-PEEK/VA-G1/2"-Y5-ET
Art. No.	KA 1128
Connection diagram No.	1
Typ PNP	KS-800-26-A-PEEK/VA-G1/2"-Y5-ET
Art. No.	KA 1126
Connection diagram No.	2
Operating voltage (U_b)	12.5...35 V DC
Output current max. (I_o)	250 mA
Voltage drop max. (U_o)	≤ 2.0 V
No-load current (I_o)	Typ. < 20 mA
Frequency of operating cycles max.	1 Hz
Permitted ambient temperature	-10...+70 °C / CIP 121 °C (zero-current)
Permitted product temperature	0...+100 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67, IP 69K
Norm	EN 60947-5-2*
Connection	Connector M 12 x 1
Operating pressure	Max. 10 bar
Housing material	VA No. 1.4305
Material active surface	PEEK (FDA 21 CFR 177.2415)
Material lid	PA

*Where applicable



EasyTeach chart:
 LED / Output function
 Yellow = A1
 Green = A2

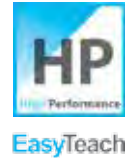


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LevelMaster - Capacitive Sensors Series 26
Series 700 - NPN
Series 800 - PNP

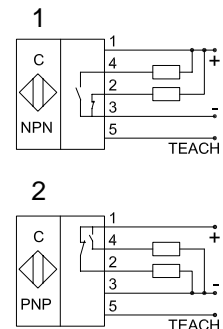
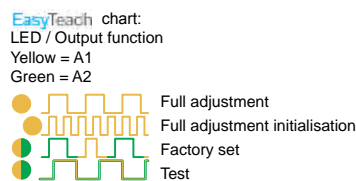
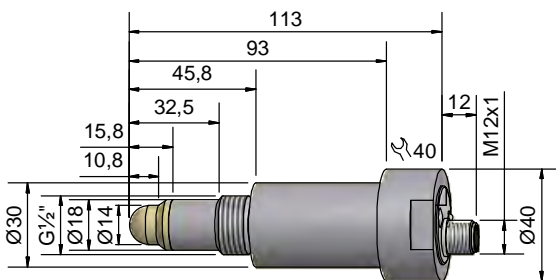


- Model G 1/2"
- For level control of conductive liquid or pastes, for instance oil, water or ketchup.
 - Housing material: Stainless steel VA
 - Antivalent output (NO + NC)
 - ETW- Function (EasyTeach by wire)
 - Process connection G 1/2"
 - With flange connector M 12 x 1
 - Ideal for applications in the food or pharmaceutical industry

Certifications: EHDG conform

Technical data	Non-flush mountable
Sensitivity	Dielectric constant $\epsilon_r > 1.25$
Electrical version	4-pin DC
Output function	Antivalent (NO +NC)
Type NPN	KS-700-26-A-PEEK/VA-G1/2"-Y10-ETW
Art. No.	KA 1134
Connection diagram No.	1
Typ PNP	KS-800-26-A-PEEK/VA-G1/2"-Y10-ETW
Art. No.	KA 1130
Connection diagram No.	2
Operating voltage (U_b)	12.5...35 V DC
Output current max. (I_o)	250 mA
Voltage drop max. (U_d)	≤ 2.0 V
No-load current (I_o)	Typ. < 20 mA
Frequency of operating cycles max.	1 Hz
Permitted ambient temperature	-10...+70 °C / CIP 121 °C (zero-current)
Permitted product temperature	0...+100 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67, IP 69K
Norm	EN 60947-5-2*
Connection	Connector M 12 x 1
Operating pressure	Max. 10 bar
Housing material	VA No. 1.4305
Material active surface	PEEK (FDA 21 CFR 177.2415)
Material lid	PA

*Where applicable



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LevelMaster - Capacitive Sensors Series 26
Series 700 - NPN
Series 800 - PNP



EasyTeach

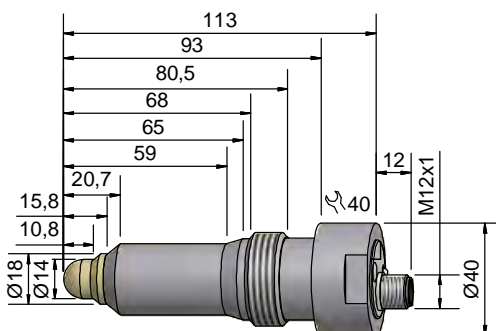
Model G 1"

- For level control of conductive liquid or pastes, for instance oil, water or ketchup.
- Housing material: Stainless steel VA
- Antivalent output (NO + NC)
- EasyTeach-Function
- Process connection G 1"
- With flange connector M 12 x 1
- Ideal for applications in the food or pharmaceutical industry

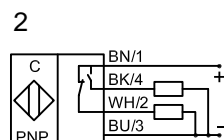
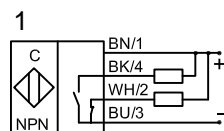
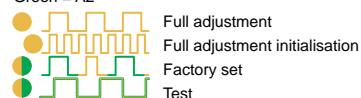
Certifications:   EHEDG conform

Technical data	Non-flush mountable
Sensitivity	Dielectric constant $\epsilon_r > 1,25$
Electrical version	4-Pin DC
Output function	Antivalent (NO +NC)
Type NPN	KS-700-26-A-PEEK/VA-G1"-Y5-ET
Art. No.	KA 1129
Connection diagram No.	1
Typ PNP	KS-800-26-A-PEEK/VA-G1"-Y5-ET
Art. No.	KA 1127
Connection diagram No.	2
Operating voltage (U_b)	12.5...35 V DC
Output current max. (I_o)	250 mA
Voltage drop max. (U_d)	≤ 2.0 V
No-load current (I_o)	Typ. < 20 mA
Frequency of operating cycles max.	1 Hz
Permitted ambient temperature	-10...+70 °C / CIP 121 °C (zero-current)
Permitted product temperature	0...+100 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67, IP 69K
Norm	EN 60947-5-2*
Connection	Connector M 12 x 1
Operating pressure	Max. 10 bar
Housing material	VA No. 1.4305
Material active surface	PEEK (FDA 21 CFR 177.2415)
Material lid	PA

*Where applicable



EasyTeach chart:
 LED / Output function
 Yellow = A1
 Green = A2



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LevelMaster - Capacitive Sensors Series 26
Series 700 - NPN
Series 800 - PNP



Model G 1"

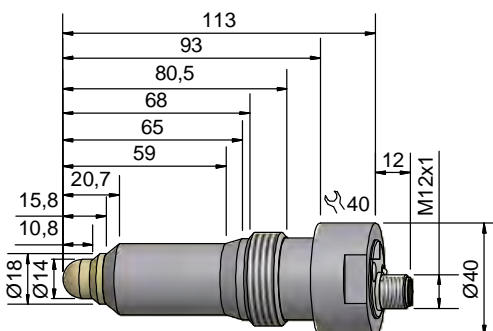
- For level control of conductive liquid or pastes, for instance oil, water or ketchup.
- Housing material: Stainless steel VA
- Antivalent output (NO + NC)
- ETW- Function (EasyTeach by wire)
- Process connection G 1"
- With flange connector M 12 x 1
- Ideal for applications in the food or pharmaceutical industry

EasyTeach

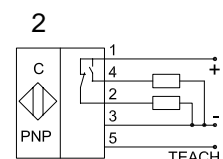
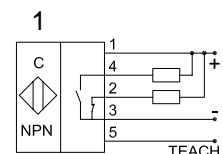
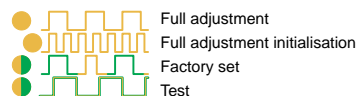
Certifications: EHDG conform

Technical data	Non-flush mountable
Sensitivity	Dielectric constant $\epsilon_r > 1.25$
Electrical version	4-pin DC
Output function	Antivalent (NO +NC)
Type NPN	KS-700-26-A-PEEK/VA-G1"-Y10-ETW
Art. No.	KA 1131
Connection diagram No.	1
Typ PNP	KS-800-26-A-PEEK/VA-G1"-Y10-ETW
Art. No.	KA 1135
Connection diagram No.	2
Operating voltage (U_b)	12.5...35 V DC
Output current max. (I_o)	250 mA
Voltage drop max. (U_o)	≤ 2.0 V
No-load current (I_o)	Typ. < 20 mA
Frequency of operating cycles max.	1 Hz
Permitted ambient temperature	-10...+70 °C / CIP 121 °C (zero-current)
Permitted product temperature	0...+100 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67, IP 69K
Norm	EN 60947-5-2*
Connection	Connector M 12 x 1
Operating pressure	Max. 10 bar
Housing material	VA No. 1.4305
Material active surface	PEEK (FDA 21 CFR 177.2415)
Material lid	PA

*Where applicable



EasyTeach chart:
 LED / Output function
 Yellow = A1
 Green = A2



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Accessories

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Accessories G 1/2" and G 1"

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WELDED SOCKET G 1/2"

For container



Type	Art. No.
BP 15	196388

WELDED SOCKET G 1"

For container and tubes



Type	Art. No.
AP 35	196368



Type	Art. No.
BP 35	196369

MILK TUBE FITTING ACCORDING TO DIN 11851 G 1"

Cone nut



Type	Art. No.
FP 35 - DN 40	196371
GP 35 - DN 50	196372
LP 35 - DN 65	196373

Coupling nut



Type	Art. No.
FÜ 15 - DN 40	196374
GÜ 15 - DN 50	196375
LÜ 15 - DN 65	196376

Varivent



Type	Art. No.
HP35 - DN50 Type N	196377
IP 35 - DN 25 Type F	196378

Triclamp



Type	Art. No.
TP 35	196379

DRD-Flange



Type	Art. No.
GA 35	196380

SEALING PLUG G 1"

Sealing plug



Type	Art. No.
VES35	196381

Welding plug



Type	Art. No.
ESS35	196382

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196372	GP 35 - DN 50	10
196373	LP 35 - DN 65	10
196374	FÜ 15 - DN 40	10
196375	GÜ 15 - DN 65	10
196376	LÜ 15 - DN 65	10
196377	HP35 - DN 50 Typ N	10
196378	IP 35 - DN 25 Typ F	10
196380	GA 35	10
196381	VES 35	10
196382	ESS 35	10
196388	BP 15	10
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KA1127	KS-800-26-A-PEEK/VA-1"-Y5-ET	7
KA1128	KS-700-26-A-PEEK/VA-1/2"-Y5-ET	5
KA1129	KS-700-26-A-PEEK/VA-1"-Y5-ET	7
KA1130	KS-800-26-A-PEEK/VA-1/2"-Y10-ETW	6
KA1131	KS-700-26-A-PEEK/VA-1"-Y10-ETW	8
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196374	FÜ 15 - DN 40	10
196380	GA 35	10
196372	GP 35 - DN 50	10
196375	GÜ 15 - DN 65	10
196377	HP35 - DN 50 Typ N	10
196378	IP 35 - DN 25 Typ F	10
KA1134	KS-700-26-A-PEEK/VA-1/2"-Y10-ETW	6
KA1128	KS-700-26-A-PEEK/VA-1/2"-Y5-ET	5
KA1131	KS-700-26-A-PEEK/VA-1"-Y10-ETW	8
KA1129	KS-700-26-A-PEEK/VA-1"-Y5-ET	7
KA1130	KS-800-26-A-PEEK/VA-1/2"-Y10-ETW	6
KA1126	KS-800-26-A-PEEK/VA-1/2"-Y5-ET	5
KA1135	KS-800-26-A-PEEK/VA-1"-Y10-ETW	8
KA1127	KS-800-26-A-PEEK/VA-1"-Y5-ET	7
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196376	LÜ 15 - DN 65	10
106379	TP 35	10
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