

CAPACITIVE SENSORS

RECHNER
SENSORS



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With publication of this catalogue all former printed catalogues about RECHNER capacitive proximity sensors of the EasyMount series are invalid.

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**CAPACITIVE
SENSORS**

EasyMount

	Pages
General description	4
EasyMount round Ø30 ETW	5
EasyMount round Ø30 ETM	6
EasyMount square ETM	7
Accessories	8
List of products	9

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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



tics 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

The mounting is really simple. The sensor itself is featured with excellent technical characteristics

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

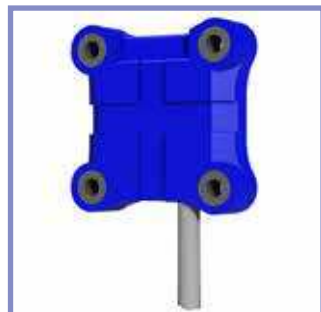
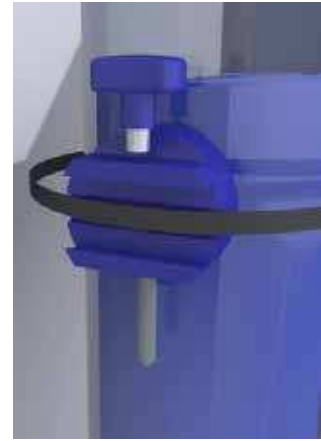
With the use of the newest production technologies the components of the sensors are embedded in the plastic body. They are watertight and operate wear-free. All sensors produced from RECHNER Sensors Germany are 100 % tested. The product marking is made with modern laser technology for everlasting identification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



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

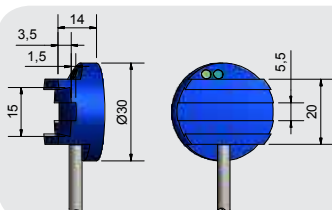
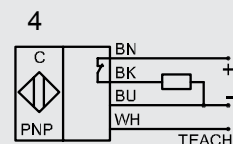
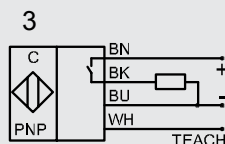
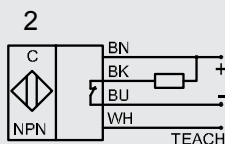
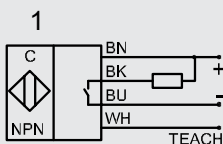
Housing Ø 30 mm

- EasyTeach by wire
- Housing material: Polyamide (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

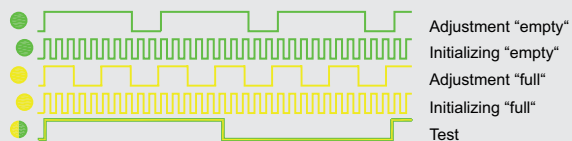


Technical data	Flush mountable	Flush mountable
Operating distance S_n	5 mm	5 mm
Operating distance min. / max. programmable	0...10 mm	0...10 mm
Electrical version	3 wire DC	3 wire DC
Output function	Normally open	Normally closed
Type NPN	KAS-70-30EM-S-PA-Z02-ETW-HP	KAS-70-30EM-Ö-PA-Z02-ETW-HP
Art.-No.	KA 1153	KA 1154
Connection diagram no.	1	2
Type PNP	KAS-80-30EM-S-PA-Z02-ETW-HP	KAS-80-30EM-Ö-PA-Z02-ETW-HP
Art.-No.	KA 1149	KA 1150
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_o)	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	IP 68	IP 68
Norm	EN 60947-5-2	EN 60947-5-2
Connection cable	2 m PVC, 4 x 0.14 mm ²	2 m PVC, 4 x 0.14 mm ²
Housing material	PA	PA
Accessory supplied with the sensor	-	-

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



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Capacitive Sensors

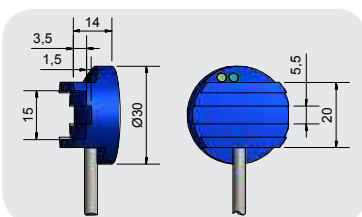
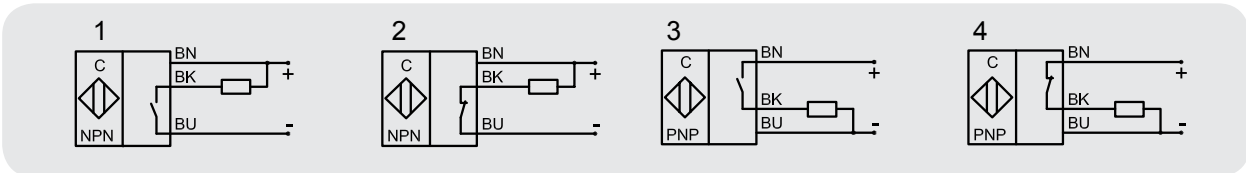
Series 70 - NPN **EasyMount**
Series 80 - PNP

Housing Ø 30 mm

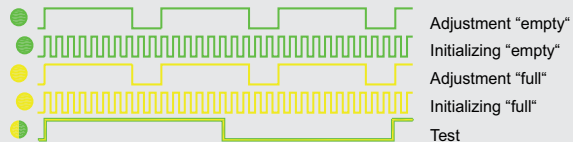
- EasyTeach by magnet (Magnet is supplied with the sensor)
- Housing material: Polyamid (PA)
- Various mounting possibilities (see accessories)
- Capacitive sensor for level control of liquids or bulk material
- Capacitive sensor for detecting the position of objects
- Watertight



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_o)	≤ 2.0 V	≤ 2.0 V
Permitted residual ripple max.	10 %	10 %
Operating current (I_o)	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 mm ²	2 m PVC, 3 x 0.14 mm ²
Housing material	PA	PA
Accessory supplied with the sensor	Teach magnet	Teach magnet

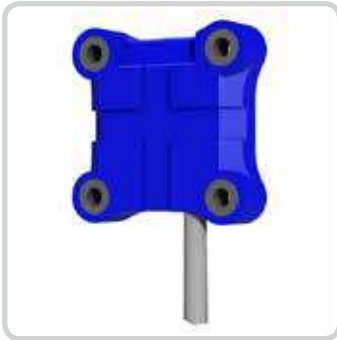


EasyTeach chart:
LED / Output function
Yellow = A1
Green = A1



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Capacitive Sensors Series 80 - PNP EasyMount

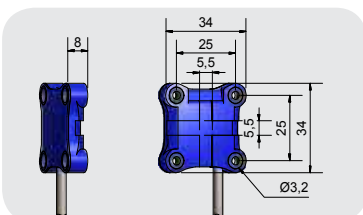
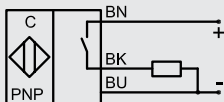
Housing 34 x 34 mm

- Housing material: PA / PVC
- Capacitive sensor for level control of liquids or bulk material
- Easy to mount, by screwing, glueing or with cable ties
- Watertight
- Sensitivity adjustment with EasyTeach by Magnet (ETM)
Magnet delivered with the sensor
- Flat housing - 8 mm
- Very suitable for a measurement through non-metallic container walls

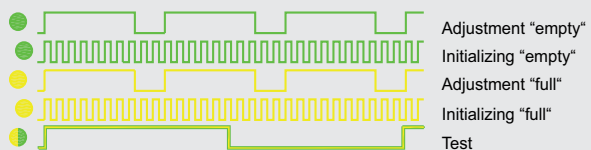


Technical data	Flush mountable
Operating distance S_n	5 mm
Operating distance min. / max. programmable	0...10 mm
Electrical version	3 wire DC
Output function	Normally open
Type NPN	
Art.-No.	
Connection diagram no.	
Type PNP	KAS-80-C30EM/8-S-PA/PVC-Z02-ETM-HP
Art.-No.	KA 1451
Connection diagram no.	See below
Operating voltage (U_b)	10...35 V DC
Voltage drop max. (U_d)	≤ 2.0 V
Permitted residual ripple max.	10 %
Operating current (I_o)	0...200 mA
No-load current (I_o)	Typ 15 mA
Frequency of operating cycles max.	2 Hz
Permitted ambient temperature	-25...+70°C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP68
Norm	EN 60947-5-2
Connection cable	2 m PVC, 3 x 0.14 mm ²
Housing material	PA / PVC
Accessories (delivered with the sensor)	Teach magnet

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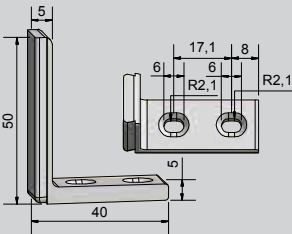

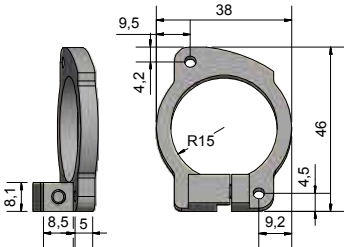

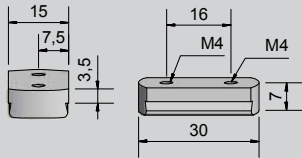

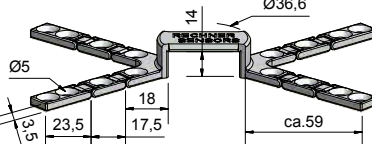

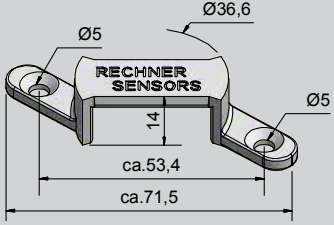


EasyTeach chart:
LED / Output function
Yellow = A1
Green = A1



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Accessories

Picture	Art.-No.	Description	Dimensions
	196389	H-01 Angled holder Material PA 2200	
	196390	H-02 Mounting adapter Material PA 2200	
	196391	H-03 Mounting adapter Material PA 2200	
	196392	H-04 Mounting adapter foldable, e.g. for positioning of the sensor for leak control Material PA 2200	
	196393	H-05 Mounting adapter Material PA 2200	

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TYPE SELECTION IN ARTICLE NUMBER ORDER

Art. No.	Description	Page
196389	EasyMount H-01	8
196390	EasyMount H-02	8
196391	EasyMount H-03	8
196392	EasyMount H-04	8
196393	EasyMount H-05	8
KA1147	KAS-80-30EM-S-PA-Z02-ETM-HP	6
KA1148	KAS-80-30EM-Ö-PA-Z02-ETM-HP	6
KA1149	KAS-80-30EM-S-PA-Z02-ETW-HP	5
KA1150	KAS-80-30EM-Ö-PA-Z02-ETW-HP	5
KA1151	KAS-70-30EM-S-PA-Z02-ETM-HP	6
KA1152	KAS-70-30EM-Ö-PA-Z02-ETM-HP	6
KA1153	KAS-70-30EM-S-PA-Z02-ETW-HP	5
KA1154	KAS-70-30EM-Ö-PA-Z02-ETW-HP	5
KA1451	KAS-80-C30EM/8-S-PA/PVC-Z02-ETM-HP	7

TYPE SELECTION IN DESCRIPTION ORDER

Description	Art. No.	Page
EasyMount H-01	196389	8
EasyMount H-02	196390	8
EasyMount H-03	196391	8
EasyMount H-04	196392	8
EasyMount H-05	196393	8
KAS-70-30EM-Ö-PA-Z02-ETM-HP	KA1152	6
KAS-70-30EM-Ö-PA-Z02-ETW-HP	KA1154	5
KAS-70-30EM-S-PA-Z02-ETM-HP	KA1151	6
KAS-70-30EM-S-PA-Z02-ETW-HP	KA1153	5
KAS-80-30EM-Ö-PA-Z02-ETM-HP	KA1148	6
KAS-80-30EM-Ö-PA-Z02-ETW-HP	KA1150	5
KAS-80-30EM-S-PA-Z02-ETM-HP	KA1147	6
KAS-80-30EM-S-PA-Z02-ETW-HP	KA1149	5
KAS-80-C30EM/8-S-PA/PVC-Z02-ETM-HP	KA1451	7

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Customer proximity guaranteed!

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Furthermore we have representative offices in over 50 countries. For the addresses of our sales partners please visit our website. You will find the addresses under the category contact.

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