

CATALOG

**CAPACITIVE
LEAK
SENSORS**



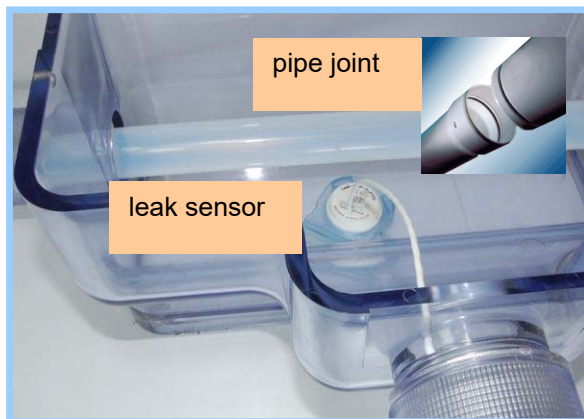
LIQUID LEAK SENSORS

Capacitive leak sensors detect a wide variety of liquids range from water to chemical liquids.

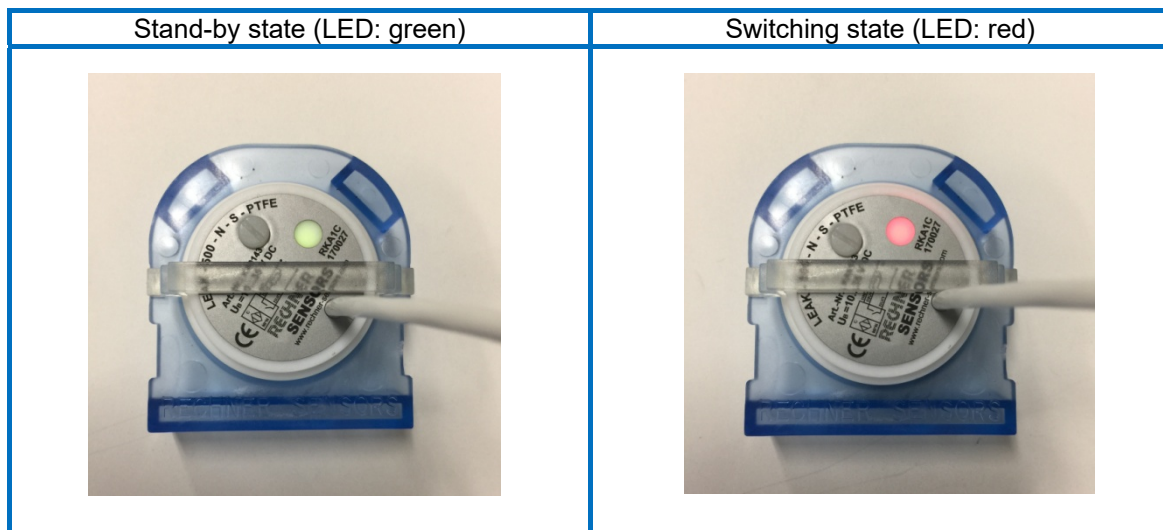
Advantages for leak sensors

- Detection for leakage of liquids such as sulfuric acid (for liquids $\epsilon_r > 1.2$)
- Adjustable sensing ranges suited to the characteristics of liquids
- Detection of liquid leakage at joints for chemical liquid pipe lines
- Detection of condensation and liquid leakage at semiconductor production installations
- Detection of liquid overflow beside chemical storage tanks

APPLICATION EXAMPES



Under pipe joints





CE

Capacitive Leak Sensor

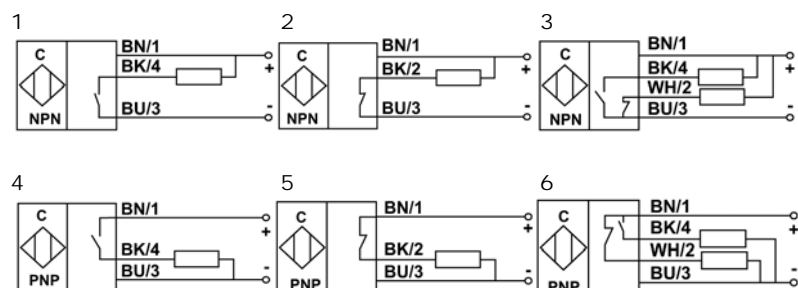
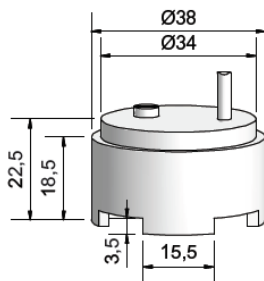
Type: KAS-80-38/23-*-PTFE-*-1-Leak, PNP

- For plastic board
- Housing material: PTFE
- Ideal for detection of chemically aggressive leak media
- 3 or 4-wire Teflon cable
- normal open/close output



Technical data

Type: PNP	KAS-80-38/23-S-PTFE-Z02-1-Leak	KAS-80-38/23-Ö-PTFE-Z02-1-Leak	KAS-80-38/23-A-PTFE-Z02-1-Leak
Art.-No.:	KA9251	KA9252	KA9351
Connection diagram No.	4	5	6
Detection material	chemical liquids, water	chemical liquids, water	chemical liquids, water
Repeat accuracy	1 %	1 %	1 %
Switching point	2.5 mm ± 5 % (for plastic board ≤ 5 mm), Adjustable	2.5 mm ± 5 % (for plastic board ≤ 5 mm), Adjustable	2.5 mm ± 5 % (for plastic board ≤ 5 mm), Adjustable
Operating voltage	10 ... 35 V DC	10 ... 35 V DC	10 ... 35 V DC
Permitted residual ripple max.	10 %	10 %	10 %
Switching output	Normal open(NO)	Normal close(NC)	Antivalent(NO + NC)
No-Load current	typ. 15 mA	typ. 15 mA	typ. 15 mA
Output max.	250 mA	250 mA	2 x 250 mA
Permitted ambient temperature	-25 ... 70 °C	-25 ... 70 °C	-25 ... 70 °C
LED-display (green/red)	green/red	green/red	green/red
Overload protection	Built-in	Built-in	Built-in
Electric short circuit protection	Built-in	Built-in	Built-in
Reverse polarity protection	Built-in	Built-in	Built-in
Enclosure rating IEC 529	IP 67	IP 67	IP 67
Connection cable	2 m, 3 x 0.14 mm ² , FEP	2 m, 3 x 0.14 mm ² , FEP	2 m, 4 x 0.14 mm ² , FEP
Housing material	PTFE	PTFE	PTFE
Holder material	PVC	PVC	PVC



All specifications are subject to change without notice (04/2017)

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Capacitive Leak Sensor

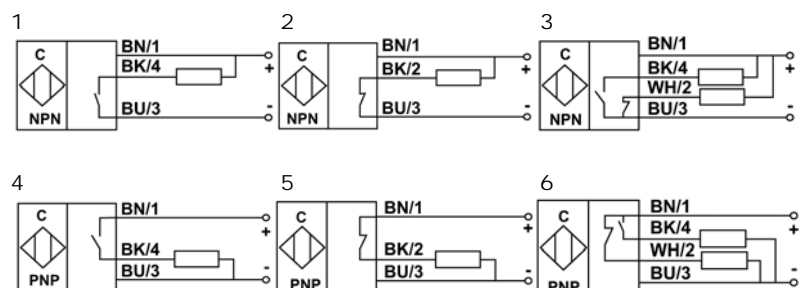
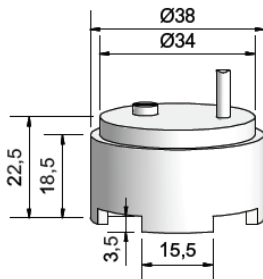
Type: KAS-70-38/23-*-PTFE-*-1-Leak, NPN

- For plastic board
- Housing material: PTFE
- Ideal for detection of chemically aggressive leak media
- 3 or 4-wire Teflon cable
- normal open/close output



Technical data

Type: NPN	KAS-70-38/23-S-PTFE-Z02-1-Leak	KAS-70-38/23-Ö-PTFE-Z02-1-Leak	KAS-70-38/23-A-PTFE-Z02-1-Leak
Art.-No.:	KA9153	KA9154	KA9352
Connection diagram No.	1	2	3
Detection material	chemical liquids, water	chemical liquids, water	chemical liquids, water
Repeat accuracy	1 %	1 %	1 %
Switching point	2.5 mm ± 5 % (for plastic board ≤ 5 mm), Adjustable	2.5 mm ± 5 % (for plastic board ≤ 5 mm), Adjustable	2.5 mm ± 5 % (for plastic board ≤ 5 mm), Adjustable
Operating voltage	10 ... 35 V DC	10 ... 35 V DC	10 ... 35 V DC
Permitted residual ripple max.	10 %	10 %	10 %
Switching output	Normal open(NO)	Normal close(NC)	Antivalent(NO + NC)
No-Load current	typ. 15 mA	typ. 15 mA	typ. 15 mA
Output max.	250 mA	250 mA	2 x 250 mA
Permitted ambient temperature	-25 ... 70 °C	-25 ... 70 °C	-25 ... 70 °C
LED-display (green/red)	green/red	green/red	green/red
Overload protection	Built-in	Built-in	Built-in
Electric short circuit protection	Built-in	Built-in	Built-in
Reverse polarity protection	Built-in	Built-in	Built-in
Enclosure rating IEC 529	IP 67	IP 67	IP 67
Connection cable	2 m, 3 x 0.14 mm ² , FEP	2 m, 3 x 0.14 mm ² , FEP	2 m, 4 x 0.14 mm ² , FEP
Housing material	PTFE	PTFE	PTFE
Holder material	PVC	PVC	PVC



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Made in Korea



Capacitive Leak Sensor Type: KAS-40-LEAK-PTFE-N

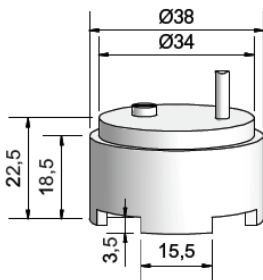
- **Series 40 – NAMUR EN 60947-5-6**
 II 1G Ex ia IIC T1-T6 Ga
- For metal board
- Housing material: PTFE
- Ideal for detection of chemically aggressive leak media
- 2-wire Teflon cable

DMT 03 ATEX E 048	IECEx BVS 07.0031
II 1G Ex ia IIC T1-T6 Ga	Ex ia IIC T1-T6 Ga

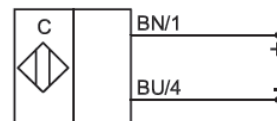
Technical data

Type	KAS-40-LEAK-PTFE-N
Art.-No.	KA9255
Detection material	For chemical liquids, water
Repeat accuracy	< 0.1 %
Switching point	2.5 mm ± 5 % (for metal board), adjustable
Operating voltage	5 ... 15 V DC
Permitted residual ripple max.	5 %
Input current active area free	< 15 mA
active area damped	typ. 17.5 mA
Internal resistance active area free	typ. 5 kΩ
active area damped	typ. 1 kΩ
Frequency of operating cycles	1 kHz
Self-inductance (L)	ca. 0 μH
Self-capacitance (C)	210 nF
LED-display, red	red: switching state
Permitted ambient temperature	-25 ... 70 °C
Enclosure rating IEC 529	IP 67
Connection cable	0.5 m, 2 x 0.14 mm ² , FEP
Housing material	PTFE
Holder material	PVC

Dimension



Connection (NAMUR)





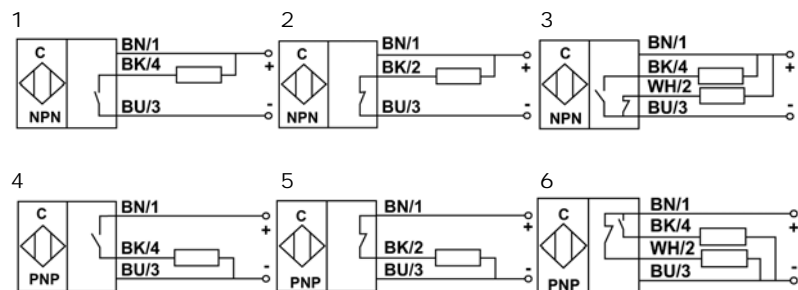
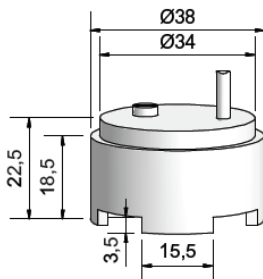
Capacitive Leak Sensor

Type: KAS-80-38/23-*-PVC-*-1-Leak, PNP

- Housing material: PVC
- Ideal for detection of chemically aggressive leak media
- IC output
- 3-wire PVC cable
- PNP normal open/close output

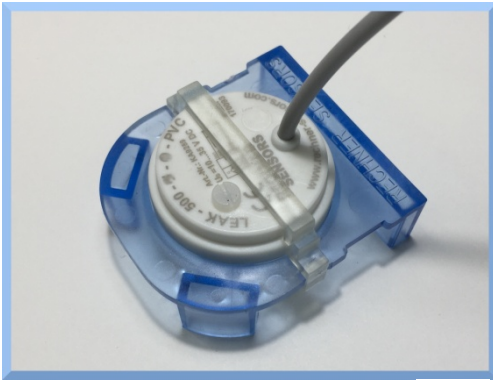
Technical data

Type: PNP	KAS-80-38/23-S-PVC-Z02-1-Leak	KAS-80-38/23-Ö-PVC-Z02-1-Leak
Art.-No.:	KA9256	KA9257
Connection diagram No.	See below	See below
Detection material	For chemical liquids, water	For chemical liquids, water
Repeat accuracy	1 %	1 %
Switching point	2.5 mm ± 5 % (for plastic board ≤ 5 mm), adjustable	2.5 mm ± 5 % (for plastic board ≤ 5 mm), adjustable
Operating voltage	10 ... 35 V DC	10 ... 35 V DC
Permitted residual ripple max.	10 %	10 %
Switching output	PNP	PNP
No-Load current	typ. 15 mA	typ. 15 mA
Output max.	250 mA	250 mA
Permitted ambient temperature	-25 ... 70 °C	-25 ... 70 °C
LED-display (green/red)	green: Us / red: switching state	green: Us / red: switching state
Overload protection	Built-in	Built-in
Electric short circuit protection	Built-in	Built-in
Reverse polarity protection	Built-in	Built-in
Enclosure rating IEC 529	IP 67	IP 67
Connection cable	2 m, 3 x 0.14 mm ² , PVC	2 m, 3 x 0.14 mm ² , PVC
Housing material	PVC	PVC
Holder material	PVC	PVC



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Capacitive Leak Sensor

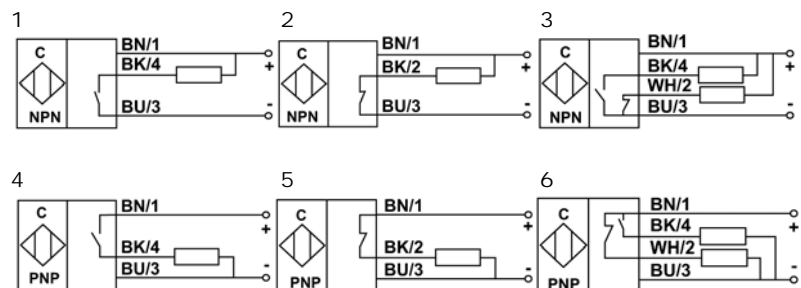
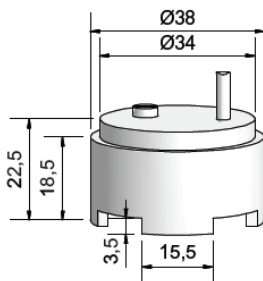
Type: KAS-70-38/23-*-PVC-*-1-Leak, NPN

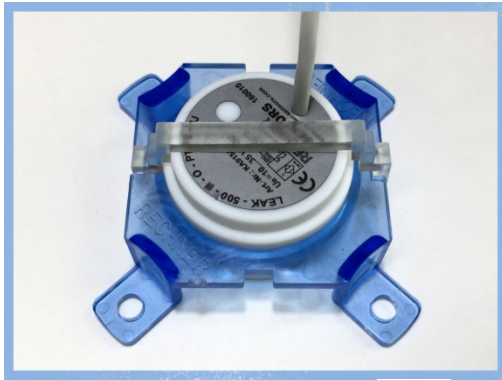
- Housing material: PVC
- Ideal for detection of chemically aggressive leak media
- IC output
- 3-wire PVC cable
- NPN normal open/close output



Technical data

Type: NPN	KAS-70-38/23-S-PVC-Z02-1-Leak	KAS-70-38/23-Ö-PVC-Z02-1-Leak
Art.-No.:	KA9258	KA9259
Connection diagram No.	See below	See below
Detection material	For chemical liquids, water	For chemical liquids, water
Repeat accuracy	1 %	1 %
Switching point	2.5 mm ± 5 % (for plastic board ≤ 5 mm), adjustable	2.5 mm ± 5 % (for plastic board ≤ 5 mm), adjustable
Operating voltage	10 ... 35 V DC	10 ... 35 V DC
Permitted residual ripple max.	10 %	10 %
Switching output	NPN	NPN
No-Load current	typ. 15 mA	typ. 15 mA
Output max.	250 mA	250 mA
Permitted ambient temperature	-25 ... 70 °C	-25 ... 70 °C
LED-display (green/red)	green: Us / red: switching state	green: Us / red: switching state
Overload protection	Built-in	Built-in
Electric short circuit protection	Built-in	Built-in
Reverse polarity protection	Built-in	Built-in
Enclosure rating IEC 529	IP 67	IP 67
Connection cable	2 m, 3 x 0.14 mm ² , PVC	2 m, 3 x 0.14 mm ² , PVC
Housing material	PVC	PVC
Holder material	PVC	PVC





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Capacitive Leak Sensor

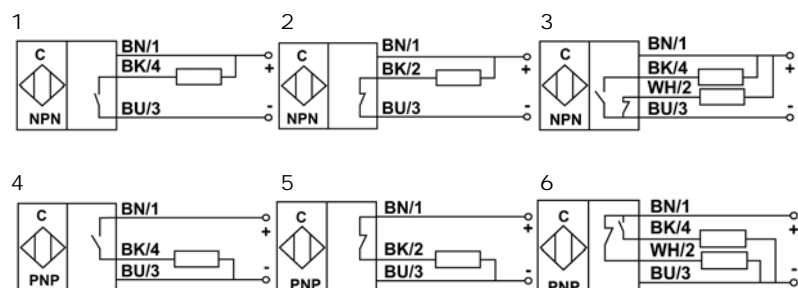
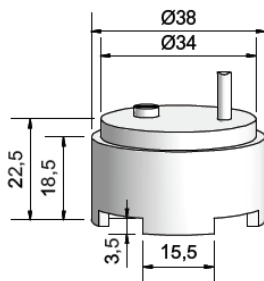
Type: KAS-80-38/23-*-PTFE-*-1-Leak-FB, PNP

- With Fixable Bracket
- For plastic board
- Housing material: PTFE
- Ideal for detection of chemically aggressive leak media
- 3/4-wire Teflon cable
- normal open/close output



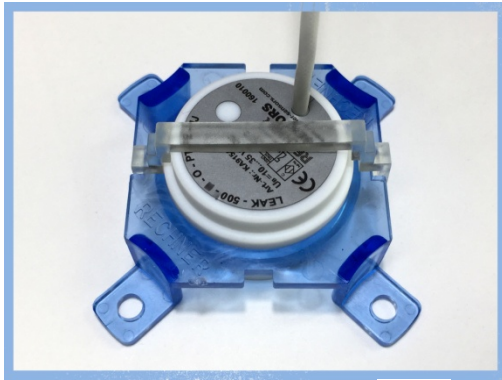
Technical data

Type: PNP	KAS-80-38/23-S-PTFE-Z02-1-Leak-FB	KAS-80-38/23-Ö-PTFE-Z02-1-Leak-FB	KAS-80-38/23-A-PTFE-Z02-1-Leak-FB
Art.-No.:	KA9910	KA9911	KA9912
Connection diagram No.	4	5	6
Detection material	chemical liquids, water	chemical liquids, water	chemical liquids, water
Repeat accuracy	1 %	1 %	1 %
Switching point	2.5 mm ± 5 % (for plastic board ≤ 5 mm), Adjustable	2.5 mm ± 5 % (for plastic board ≤ 5 mm), Adjustable	2.5 mm ± 5 % (for plastic board ≤ 5 mm), Adjustable
Operating voltage	10 ... 35 V DC	10 ... 35 V DC	10 ... 35 V DC
Permitted residual ripple max.	10 %	10 %	10 %
Switching output	Normal open(NO)	Normal close(NC)	Antivalent(NO + NC)
No-Load current	typ. 15 mA	typ. 15 mA	typ. 15 mA
Output max.	250 mA	250 mA	2 x 250 mA
Permitted ambient temperature	-25 ... 70 °C	-25 ... 70 °C	-25 ... 70 °C
LED-display (green/red)	green/red	green/red	green/red
Overload protection	Built-in	Built-in	Built-in
Electric short circuit protection	Built-in	Built-in	Built-in
Reverse polarity protection	Built-in	Built-in	Built-in
Enclosure rating IEC 529	IP 67	IP 67	IP 67
Connection cable	2 m, 3 x 0.14 mm ² , FEP	2 m, 3 x 0.14 mm ² , FEP	2 m, 4 x 0.14 mm ² , FEP
Housing material	PTFE	PTFE	PTFE
Holder material	PVC	PVC	PVC



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Capacitive Leak Sensor

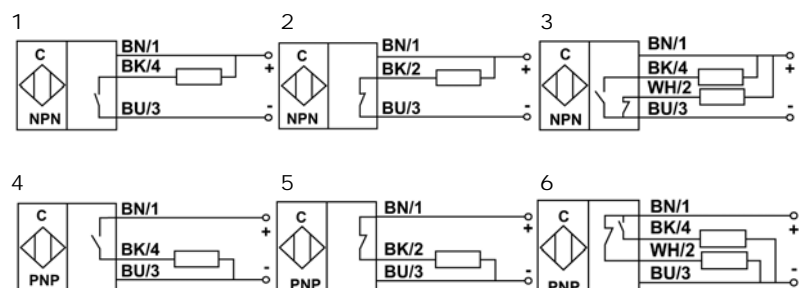
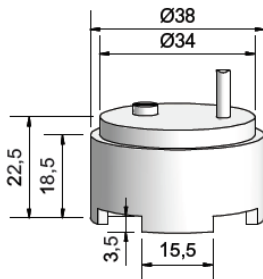
Type: KAS-70-38/23-*-PTFE-*-1-Leak-FB, NPN

- With Fixable Bracket
- For plastic board
- Housing material: PTFE
- Ideal for detection of chemically aggressive leak media
- 3/4-wire Teflon cable
- normal open/close output



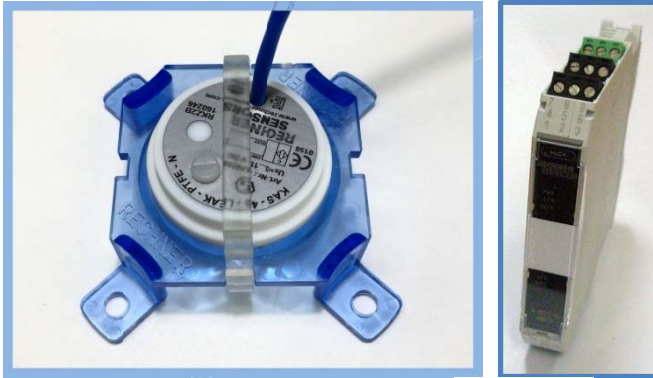
Technical data

Type: NPN	KAS-70-38/23-S-PTFE-Z02-1-Leak-FB	KAS-70-38/23-Ö-PTFE-Z02-1-Leak-FB	KAS-70-38/23-A-PTFE-Z02-1-Leak-FB
Art.-No.:	KA9901	KA9902	KA9903
Connection diagram No.	1	2	3
Detection material	chemical liquids, water	chemical liquids, water	chemical liquids, water
Repeat accuracy	1 %	1 %	1 %
Switching point	2.5 mm ± 5 % (for plastic board ≤ 5 mm), Adjustable	2.5 mm ± 5 % (for plastic board ≤ 5 mm), Adjustable	2.5 mm ± 5 % (for plastic board ≤ 5 mm), Adjustable
Operating voltage	10 ... 35 V DC	10 ... 35 V DC	10 ... 35 V DC
Permitted residual ripple max.	10 %	10 %	10 %
Switching output	Normal open(NO)	Normal close(NC)	Antivalent(NO + NC)
No-Load current	typ. 15 mA	typ. 15 mA	typ. 15 mA
Output max.	250 mA	250 mA	2 x 250 mA
Permitted ambient temperature	-25 ... 70 °C	-25 ... 70 °C	-25 ... 70 °C
LED-display (green/red)	green/red	green/red	green/red
Overload protection	Built-in	Built-in	Built-in
Electric short circuit protection	Built-in	Built-in	Built-in
Reverse polarity protection	Built-in	Built-in	Built-in
Enclosure rating IEC 529	IP 67	IP 67	IP 67
Connection cable	2 m, 3 x 0.14 mm ² , FEP	2 m, 3 x 0.14 mm ² , FEP	2 m, 4 x 0.14 mm ² , FEP
Housing material	PTFE	PTFE	PTFE
Holder material	PVC	PVC	PVC



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Capacitive Leak Sensor

Type: KAS-40-LEAK-PTFE-N-FB

With Fixable Bracket

● Series 40 – NAMUR EN 60947-5-6

● II 1G Ex ia IIC T1-T6 Ga

● For metal board

● Housing material: PTFE

● Ideal for detection of chemically aggressive leak media

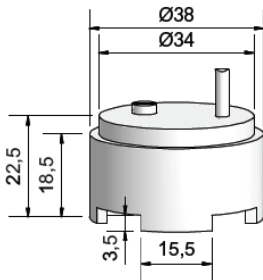
● 2-wire Teflon cable

DMT 03 ATEX E 048	IECEX BVS 07.0031
● II 1G Ex ia IIC T1-T6 Ga	Ex ia IIC T1-T6 Ga

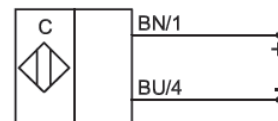
Technical data

Type	KAS-40-LEAK-PTFE-N-FB
Art.-No.	KA9937
Detection material	For chemical liquids, water
Repeat accuracy	< 0.1 %
Switching point	2.5 mm ± 5 % (for metal board), adjustable
Operating voltage	5 ... 15 V DC
Permitted residual ripple max.	5 %
Input current active area free	< 15 mA
active area damped	typ. 17.5 mA
Internal resistance active area free	typ. 5 kΩ
active area damped	typ. 1 kΩ
Frequency of operating cycles	1 kHz
Self-inductance (L)	ca. 0 μH
Self-capacitance (C)	210 nF
LED-display, red	red: switching state
Permitted ambient temperature	-25 ... 70 °C
Enclosure rating IEC 529	IP 67
Connection cable	0.5 m, 2 x 0.14 mm ² , FEP
Housing material	PTFE
Holder material	PVC

Dimension



Connection (NAMUR)





Capacitive Leak Sensor

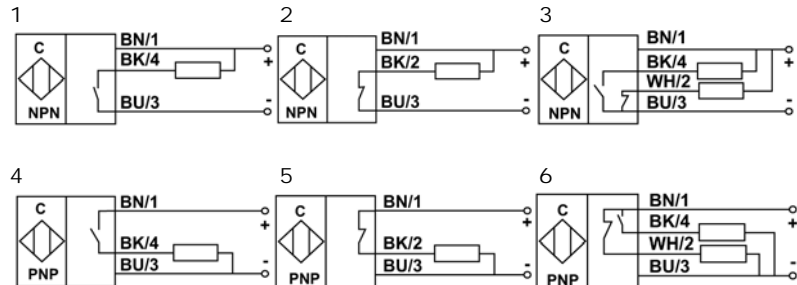
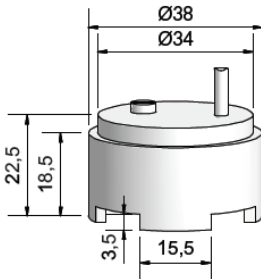
Type: KAS-80-38/23-*-PVC-*-1-Leak-FB, PNP

- With Fixable Bracket
- Housing material: PVC
- Ideal for detection of chemically aggressive leak media
- IC output
- 3-wire PVC cable
- PNP normal open/close output



Technical data

Type: PNP	KAS-80-38/23-S-PVC-Z02-1-Leak-FB	KAS-80-38/23-Ö -PVC-Z02-1-Leak-FB
Art.-No.:	KA9928	KA9929
Connection diagram No.	See below	See below
Detection material	For chemical liquids, water	For chemical liquids, water
Repeat accuracy	1 %	1 %
Switching point	2.5 mm ± 5 % (for plastic board ≤ 5 mm), adjustable	2.5 mm ± 5 % (for plastic board ≤ 5 mm), adjustable
Operating voltage	10 ... 35 V DC	10 ... 35 V DC
Permitted residual ripple max.	10 %	10 %
Switching output	PNP	PNP
No-Load current	typ. 15 mA	typ. 15 mA
Output max.	250 mA	250 mA
Permitted ambient temperature	-25 ... 70 °C	-25 ... 70 °C
LED-display (green/red)	green: Us / red: switching state	green: Us / red: switching state
Overload protection	Built-in	Built-in
Electric short circuit protection	Built-in	Built-in
Reverse polarity protection	Built-in	Built-in
Enclosure rating IEC 529	IP 67	IP 67
Connection cable	2 m, 3 x 0.14 mm ² , PVC	2 m, 3 x 0.14 mm ² , PVC
Housing material	PVC	PVC
Holder material	PVC	PVC





Capacitive Leak Sensor

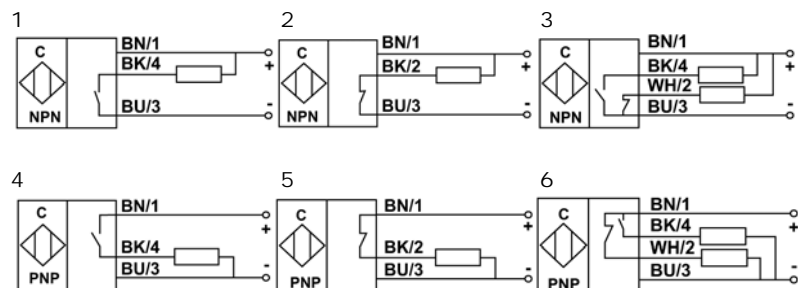
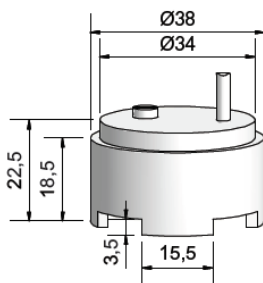
Type: KAS-70-38/23-*-PVC-*-1-Leak-FB, NPN

- With Fixable Bracket
- Housing material: PVC
- Ideal for detection of chemically aggressive leak media
- IC output
- 3-wire PVC cable
- NPN normal open/close output



Technical data

Type: NPN	KAS-70-38/23-S-PVC-Z02-1-Leak-FB	KAS-70-38/23-Ö -PVC-Z02-1-Leak-FB
Art.-No.:	KA9919	KA9920
Connection diagram No.	See below	See below
Detection material	For chemical liquids, water	For chemical liquids, water
Repeat accuracy	1 %	1 %
Switching point	2.5 mm ± 5 % (for plastic board ≤ 5 mm), adjustable	2.5 mm ± 5 % (for plastic board ≤ 5 mm), adjustable
Operating voltage	10 ... 35 V DC	10 ... 35 V DC
Permitted residual ripple max.	10 %	10 %
Switching output	NPN	NPN
No-Load current	typ. 15 mA	typ. 15 mA
Output max.	250 mA	250 mA
Permitted ambient temperature	-25 ... 70 °C	-25 ... 70 °C
LED-display (green/red)	green: Us / red: switching state	green: Us / red: switching state
Overload protection	Built-in	Built-in
Electric short circuit protection	Built-in	Built-in
Reverse polarity protection	Built-in	Built-in
Enclosure rating IEC 529	IP 67	IP 67
Connection cable	2 m, 3 x 0.14 mm ² , PVC	2 m, 3 x 0.14 mm ² , PVC
Housing material	PVC	PVC
Holder material	PVC	PVC



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Made in Korea

Overview of Leak Sensors

Type	Cable length	Article No.
KAS-80-38/23-S-PTFE-Z02-1-Leak	2 m	KA9251
KAS-80-38/23-Ö-PTFE-Z02-1-Leak	2	KA9252
KAS-80-38/23-A-PTFE-Z02-1-Leak	2	KA9351
KAS-70-38/23-S-PTFE-Z02-1-Leak	2	KA9153
KAS-70-38/23-Ö-PTFE-Z02-1-Leak	2	KA9154
KAS-70-38/23-A-PTFE-Z02-1-Leak	2	KA9352
KAS-80-38/23-S-PTFE-Z05-1-Leak	5	KA9241
KAS-80-38/23-Ö-PTFE-Z05-1-Leak	5	KA9242
KAS-80-38/23-A-PTFE-Z05-1-Leak	5	KA9341
KAS-70-38/23-S-PTFE-Z05-1-Leak	5	KA9143
KAS-70-38/23-Ö-PTFE-Z05-1-Leak	5	KA9144
KAS-70-38/23-A-PTFE-Z05-1-Leak	5	KA9342
KAS-80-38/23-S-PTFE-Z0E-1-Leak	15	KA9231
KAS-80-38/23-Ö-PTFE-Z0E-1-Leak	15	KA9232
KAS-80-38/23-A-PTFE-Z0E-1-Leak	15	KA9331
KAS-70-38/23-S-PTFE-Z0E-1-Leak	15	KA9133
KAS-70-38/23-Ö-PTFE-Z0E-1-Leak	15	KA9134
KAS-70-38/23-A-PTFE-Z0E-1-Leak	15	KA9332
KAS-40-LEAK-PTFE-N	2	KA9255
KAS-40-LEAK-PTFE-N (5m)	5	KA9245
KAS-40-LEAK-PTFE-N (15m)	15	KA9235
KAS-80-38/23-S-PVC-Z02-1-Leak	2	KA9256
KAS-80-38/23-Ö-PVC-Z02-1-Leak	2	KA9257
KAS-80-38/23-A-PVC-Z02-1-Leak	2	KA9353
KAS-70-38/23-S-PVC-Z02-1-Leak	2	KA9258
KAS-70-38/23-Ö-PVC-Z02-1-Leak	2	KA9259
KAS-70-38/23-A-PVC-Z02-1-Leak	2	KA9354
KAS-70-38/23-S-PTFE-Z02-1-Leak-FB	2	KA9901
KAS-70-38/23-Ö-PTFE-Z02-1-Leak-FB	2	KA9902
KAS-70-38/23-A-PTFE-Z02-1-Leak-FB	2	KA9903
KAS-70-38/23-S-PTFE-Z05-1-Leak-FB	5	KA9904
KAS-70-38/23-Ö-PTFE-Z05-1-Leak-FB	5	KA9905
KAS-70-38/23-A-PTFE-Z05-1-Leak-FB	5	KA9906
KAS-70-38/23-S-PTFE-Z0E-1-Leak-FB	15	KA9907
KAS-70-38/23-Ö-PTFE-Z0E-1-Leak-FB	15	KA9908
KAS-70-38/23-A-PTFE-Z0E-1-Leak-FB	15	KA9909
KAS-80-38/23-S-PTFE-Z02-1-Leak-FB	2	KA9910
KAS-80-38/23-Ö-PTFE-Z02-1-Leak-FB	2	KA9911
KAS-80-38/23-A-PTFE-Z02-1-Leak-FB	2	KA9912
KAS-80-38/23-S-PTFE-Z05-1-Leak-FB	5	KA9913
KAS-80-38/23-Ö-PTFE-Z05-1-Leak-FB	5	KA9914

All specifications are subject to change without notice (04/2017)

KAS-80-38/23-A-PTFE-Z05-1-Leak-FB	5	KA9915
KAS-80-38/23-S-PTFE-Z0E-1-Leak-FB	15	KA9916
KAS-80-38/23-Ö-PTFE-Z0E-1-Leak-FB	15	KA9917
KAS-80-38/23-A-PTFE-Z0E-1-Leak-FB	15	KA9918
KAS-70-38/23-S-PVC-Z02-1-Leak-FB	2	KA9919
KAS-70-38/23-Ö-PVC-Z02-1-Leak-FB	2	KA9920
KAS-70-38/23-S-PVC-Z05-1-Leak-FB	2	KA9922
KAS-70-38/23-Ö-PVC-Z05-1-Leak-FB	2	KA9923
KAS-80-38/23-S-PVC-Z02-1-Leak-FB	5	KA9928
KAS-80-38/23-Ö-PVC-Z02-1-Leak-FB	5	KA9929
KAS-80-38/23-S-PVC-Z05-1-Leak-FB	5	KA9931
KAS-80-38/23-Ö-PVC-Z05-1-Leak-FB	5	KA9932
KAS-40-LEAK-PTFE-N-FB	2	KA9937
KAS-40-LEAK-PTFE-N-FB (5m)	5	KA9938
KAS-40-LEAK-PTFE-N-FB (15m)	15	KA9939

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