

Емкостные датчики KAS-80-M18, KAS-70-M18

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
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Capacitive Sensors Series 80 - PNP

Housing M 18 x 1

- Housing material: Brass
- Sensing distance 0.5...10 mm adjustable



Certificate:



Technical data

	Flush mountable	Flush mountable
Operating distance S_n	5 mm	5 mm
Operating distance min. / max. adjustable	0.5...10 mm	0.5...10 mm
Electrical version	3-wire DC	4-wire DC
Output function	Normally open	Antivalent

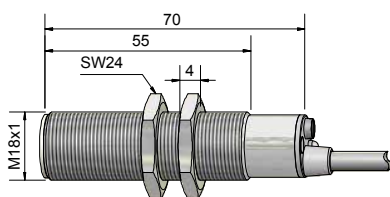
Type NPN

Art.-No.

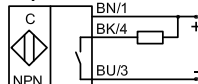
Connection diagram No.

Type PNP	KAS-80-A13-S-M18-PTFE/MS-Z02-1-HP	KAS-80-A13-A-M18-PTFE/MS-Z02-1-HP
Art.-No.	801 200	800 800
Connection diagram No.	4	6
Operating voltage (U_B)	10...35 V DC	10...35 V DC
Output current max. (I_o)	250 mA	2 x 250 mA
Voltage drop max. (U_d)	≤ 2,0 V	≤ 2,0 V
Permitted residual ripple max.	10 %	10 %
No-load current (I_o)	Typ. 15 mA	Typ. 15 mA
Frequency of operating cycles max.	300 Hz	300 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 67*	IP 67*
Norm	EN 60947-5-2	EN 60947-5-2
Connection cable	2 m, PUR, 3 x 0,34 mm ²	2 m, PVC, 4 x 0,34 mm ²
Housing material	Brass	Brass
Active surface	PTFE (FDA 21 CFR 177.1550)	PTFE (FDA 21 CFR 177.1550)
Lid	PA / PPO	PA / PPO
Media optimized	Yes	Yes
Accessories (is delivered with the sensor)	2 nuts M 18	2 nuts M 18

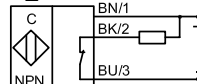
* With sealed potentiometer screw



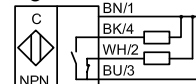
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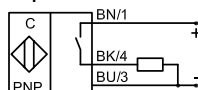
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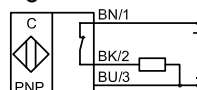
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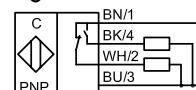
4



5



6





Capacitive Sensors Series 80 - PNP



Housing M 18 x 1

- Housing material: Brass
- Sensing distance 0.5...10 mm adjustable
- With flange connector M 12 x 1



Certificate:

Technical data

Flush mountable

Operating distance S_n	5 mm
Operating distance min. / max. adjustable	0.5...10 mm
Electrical version	4-pin DC
Output function	Antivalent

Type NPN

Art.-No.

Connection diagram No.

Type PNP

KAS-80-A13-A-M18-PTFE/MS-Y5-1-HP

Art.-No.

801 981

Connection diagram No.

6

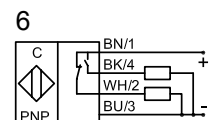
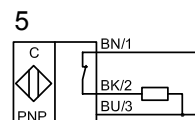
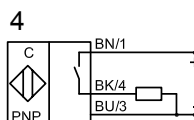
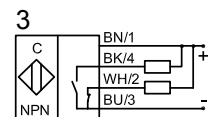
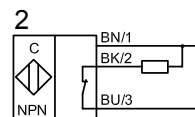
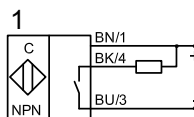
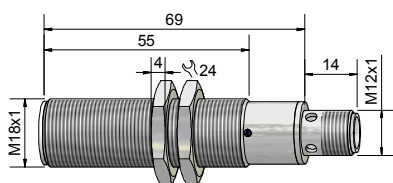
Operating voltage (U_b)	10...35 V DC
Output current max. (I_o)	2 x 250 mA
Voltage drop max. (U_d)	≤ 2,0 V
Permitted residual ripple max.	10 %
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles max.	300 Hz
Permitted ambient temperature	-25...+70 °C
LED-display	Yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection	Flange connector M 12 x 1
Housing material	Brass
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	-
Media optimized	Yes

Accessories (is delivered with the sensor)

2 nuts M 18

For matching connectors please see our selection of accessories.

* With sealed potentiometer screw





Capacitive Sensors

Series 70 - NPN

Series 80 - PNP



Housing M 18 x 1

- Housing material: PA / PPO
- Sensing distance 0.5...10 mm adjustable

Certificate:

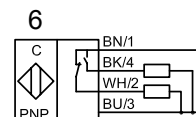
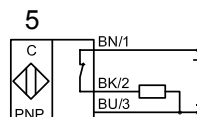
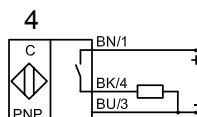
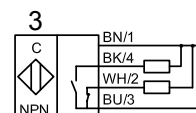
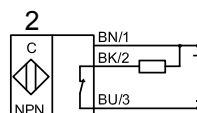
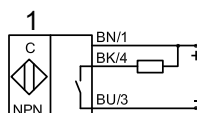
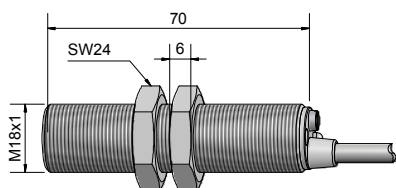


Technical data

Flush mountable

Operating distance S_n	5 mm
Operating distance min. / max. adjustable	0.5...10 mm
Electrical version	4-wire DC
Output function	Antivalent
Type NPN	KAS-70-A13-A-M18-PPO-Z02-1-HP
Art.-No.	701 000
Connection diagram No.	3
Type PNP	KAS-80-A13-A-M18-PPO-Z02-1-HP
Art.-No.	801 000
Connection diagram No.	6
Operating voltage (U_B)	10...35 V DC
Output current max. (I_o)	2 x 250 mA
Voltage drop max. (U_d)	≤ 2.0 V
Permitted residual ripple max.	10 %
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles max.	300 Hz
Permitted ambient temperature	-25...+70 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection cable	2 m PVC, 4 x 0.34 mm ²
Housing material	PA / PPO
Active surface	PA / PPO
Lid	PA / PPO
Media optimized	Yes
Accessories (is delivered with the sensor)	2 nuts M 18

* With sealed potentiometer screw





Capacitive Sensors Serie 90 - AC / DC

Housing M 18 x 1

- Housing material: PA / PPO
- Sensing distance 1...10 mm adjustable

Certificate:



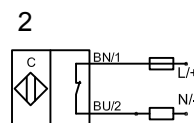
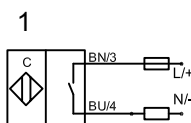
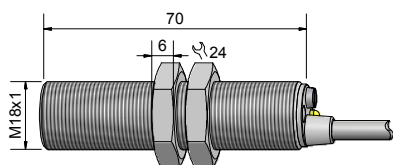
Quattro^{ETC}Protect™

Technical data

Flush mountable

Operating distance S_n	5 mm
Operating distance min. / max. adjustable	1...10 mm
Electrical version	2-wire AC / DC
Output function	Normally open
Type	KAS-90-A13-S-M18-PPO-Z02-1
Art.-No.	900 100
Connection diagram No.	1
Operating voltage (U_B)	20...250 V AC / DC
Output current max. (I_e)	250 mA
Load current min.	5 mA
Voltage drop max. (U_d)	≤ 6 V
No-load current (I_o)	Typ. 2.5 mA
Frequency of operating cycles max.	25 Hz
Permitted ambient temperature	-25...+70 °C (ETL = +60 °C)
LED-display	Yellow
Protective circuit	Built-in
Degree of protection IEC 529	IP 67*
Norm	EN 60947-5-2
Connection cable	2 m, PUR, 2 x 0.34 mm ²
Housing material	PA / PPO
Active surface	PA / PPO
Lid	PA / PPO
Accessories (is delivered with the sensor)	2 nuts M 18

* With sealed potentiometer screw





Capacitive Sensors

Series 80 - PNP

Housing M 18 x 1

- Housing material: PTFE
- Ideal for detection of chemically aggressive media
- Ideal for use in food applications
- Sensing distance 0.5...10 mm adjustable
- Option: Total chemical resistance is given when ordering the sensor with PTFE cable and PTFE - protection set Art.-No. 196305



Certificate:



Technical data

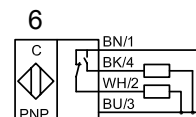
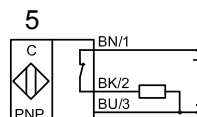
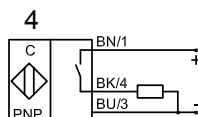
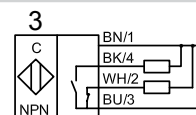
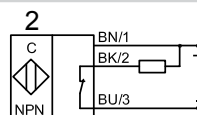
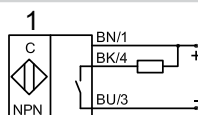
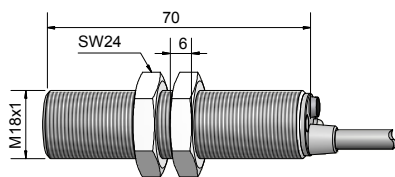
Flush mountable

Operating distance S_n	5 mm
Operating distance min. / max. adjustable	0.5...10 mm
Electrical version	4-wire DC
Output function	Antivalent
Type NPN	
Art.-No.	
Connection diagram No.	
Type PNP	
KAS-80-A13-A-M18-PTFE-Z02-1-HP	
Art.-No.	
801 020	
Connection diagram No.	
6	
Operating voltage (U_B)	10...35 V DC
Output current max. (I_e)	2 x 250 mA
Voltage drop max. (U_d)	≤ 2.0 V
Permitted residual ripple max.	10 %
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles max.	300 Hz
Permitted ambient temperature	-25...+70 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection cable	2 m, PVC, 4 x 0.34 mm ²
Housing material	PTFE (FDA 21 CFR 177.1550)
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PA / PPO
Media optimized	Yes

Accessories (is delivered with the sensor)

2 nuts M 18

* With sealed potentiometer screw





Capacitive Sensors Series 80 - PNP



Housing M 18 x 1

- Housing material: Brass
- Sensing distance 0.5...15 mm adjustable

Certificate:



Technical data

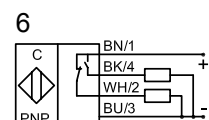
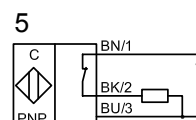
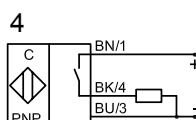
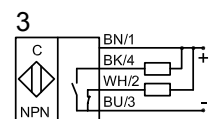
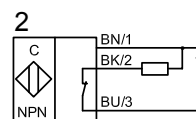
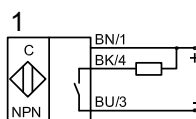
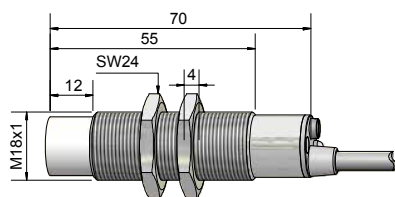
Non-flush mountable

Operating distance S_n	8 mm
Operating distance min. / max. adjustable	0.5...15 mm
Electrical version	4-wire DC
Output function	Antivalent
Type NPN	
Art.-No.	
Connection diagram No.	
Type PNP	
KAS-80-A23-A-M18-PTFE/MS-Z02-1-HP	
Art.-No.	
803 200	
Connection diagram No.	
6	
Operating voltage (U_B)	10...35 V DC
Output current max. (I_o)	2 x 250 mA
Voltage drop max. (U_d)	≤ 2.0 V
Permitted residual ripple max.	10 %
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-25...+70 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection cable	2 m, PVC, 4 x 0.34 mm ²
Housing material	Brass
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PA / PPO
Media optimized	Yes

Accessories (is delivered with the sensor)

2 nuts M 18

* With sealed potentiometer screw





Capacitive Sensors Series 80 - PNP



Housing M 18 x 1

- Housing material: Brass
- Sensing distance 0.5...15 mm adjustable
- With flange connector M 12 x 1



Certificate:

Technical data

Non-flush mountable

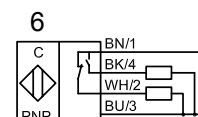
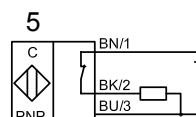
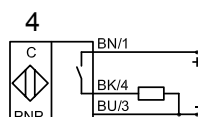
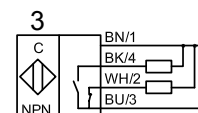
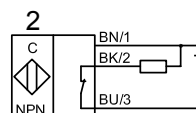
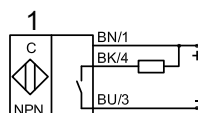
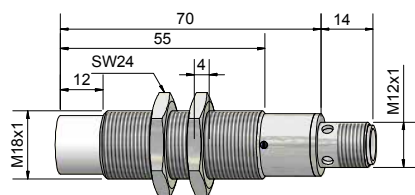
Operating distance S_n	8 mm
Operating distance min. / max. adjustable	0.5...15 mm
Electrical version	4-pin DC
Output function	Antivalent
Type NPN	
Art.-No.	
Connection diagram No.	
Type PNP	
KAS-80-A23-A-M18-PTFE/MS-Y5-1-HP	
Art.-No.	
804 091	
Connection diagram No.	6
Operating voltage (U_B)	10...35 V DC
Output current max. (I_o)	2 x 250 mA
Voltage drop max. (U_d)	≤ 2.0 V
Permitted residual ripple max.	10 %
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-25...+70 °C
LED-display	Yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection	Flange connector M 12 x 1
Housing material	Brass
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	-
Media optimized	Yes

Accessories (is delivered with the sensor)

2 nuts M 18

For matching connectors please see our selection of accessories.

* With sealed potentiometer screw





Capacitive Sensors Series 90 - AC / DC

Housing M 18 x 1

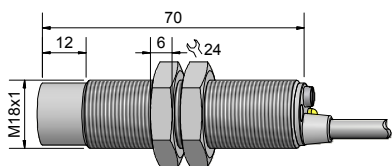
- Housing material: PA / PPO
- Sensing distance 0.5...12 mm adjustable

Certificate:

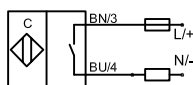


Technical data	Non-flush mountable	Non-flush mountable
Operating distance S_n	8 mm	8 mm
Operating distance min. / max. adjustable	0.5...12 mm	0.5...12 mm
Electrical version	2-wire AC / DC	2-wire AC / DC
Output function	Normally open	Normally closed
Type	KAS-90-A23-S-M18-PPO-Z02-1	KAS-90-A23-Ö-M18-PPO-Z02-1
Art.-No.	900 300	900 400
Connection diagram No.	1	2
Operating voltage (U_B)	20...250 V AC / DC	20...250 V AC / DC
Output current max. (I_e)	250 mA	250 mA
Load current min.	5 mA	5 mA
Voltage drop max. (U_d)	≤ 6 V	≤ 6 V
No-load current (I_0)	Typ. 2.5 mA	Typ. 2.5 mA
Frequency of operating cycles max.	25 Hz	25 Hz
Permitted ambient temperature	-25...+70 °C (ETL = +60 °C)	-25...+70 °C (ETL = +60 °C)
LED-display	Yellow	Yellow
Protective circuit	Built-in	Built-in
Degree of protection IEC 529	IP 67*	IP 67*
Norm	EN 60947-5-2	EN 60947-5-2
Connection cable	2 m, PUR, 2 x 0.34 mm ²	2 m, PUR, 2 x 0.34 mm ²
Housing material	PA / PPO	PA / PPO
Active surface	PA / PPO	PA / PPO
Lid	PA / PPO	PA / PPO
Accessories (is delivered with the sensor)	2 nuts M 18	2 nuts M 18

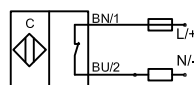
* With sealed potentiometer screw



1



2





Capacitive Sensors Series 80 - PNP



Housing M 18 x 1

- Housing material: PTFE
- Ideal for detection of chemically aggressive media
- Ideal for use in food applications
- Sensing distance 0.5...15 mm adjustable
- Option: Total chemical resistance is given when ordering the sensor with PTFE cable and PTFE - protection set Art.-No. 196305

Certificate:



Technical data

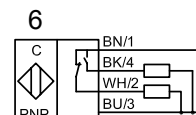
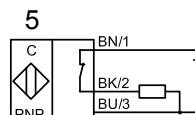
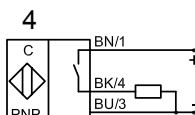
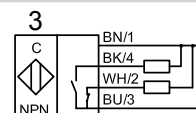
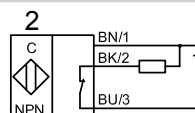
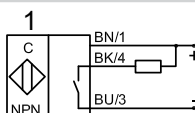
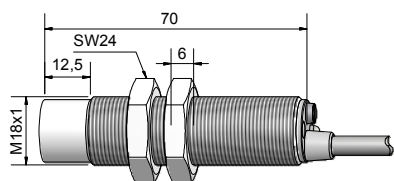
Non-flush mountable

Operating distance S_n	8 mm
Operating distance min. / max. adjustable	0.5...15 mm
Electrical version	4-wire DC
Output function	Antivalent
Type NPN	
Art.-No.	
Connection diagram No.	
Type PNP	
KAS-80-A23-A-M18-PTFE-Z02-1-HP	
Art.-No.	
803 561	
Connection diagram No.	6
Operating voltage (U_B)	10...35 V DC
Output current max. (I_e)	2 x 250 mA
Voltage drop max. (U_d)	≤ 2.0 V
Permitted residual ripple max.	10 %
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-25...+70 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection cable	2 m, PVC, 4 x 0.34 mm ²
Housing material	PTFE (FDA 21 CFR 177.1550)
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PA / PPO
Media optimized	Yes

Accessories (is delivered with the sensor)

2 nuts M 18

* With sealed potentiometer screw





Capacitive Sensors Series 80 - PNP



Housing Ø 20 mm

- Housing material: PA / PPO
- Sensing distance 0.5...20 mm adjustable

Certificate:



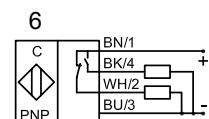
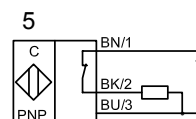
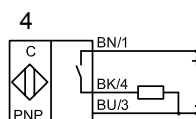
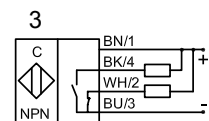
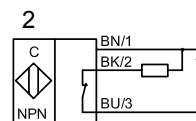
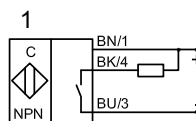
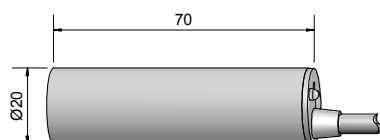
Technical data

Non-flush mountable

Operating distance S_n	12 mm
Operating distance min. / max. adjustable	0.5...20 mm
Electrical version	4-wire DC
Output function	Antivalent
Type NPN	
Art.-No.	
Connection diagram No.	
Type PNP	
KAS-80-23-A-D20-PA-Z02-1-HP	
Art.-No.	
812 800	
Connection diagram No.	
6	
Operating voltage (U_b)	10...35 V DC
Output current max. (I_o)	2 x 250 mA
Voltage drop max. (U_d)	≤ 2.0 V
Permitted residual ripple max.	10%
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-25...+70 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection cable	2 m, PVC, 4 x 0.34 mm ²
Housing material	PA / PPO
Active surface	PA / PPO
Lid	PA / PPO
Media optimized	Yes

Assessors for mounting (is not delivered with the sensor) please see our selection of accessories.

* With sealed potentiometer screw





Capacitive Sensors Series 80 - PNP



Housing Ø 22 mm

- Housing material: Brass
- Sensing distance 0.5...15 mm adjustable

Certificate:



Technical data

	Flush mountable	Flush mountable
Operating distance S_n	8 mm	8 mm
Operating distance min. / max. adjustable	0.5...15 mm	0.5...15 mm
Electrical version	3-wire DC	4-wire DC
Output function	Normally open	Antivalent

Type NPN

Art.-No.

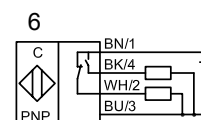
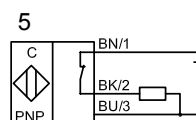
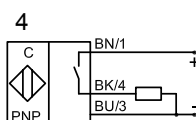
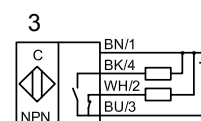
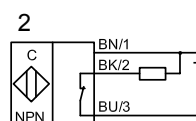
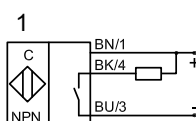
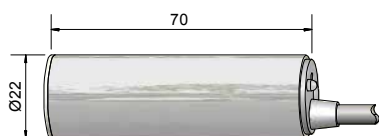
Connection diagram No.

Type PNP **KAS-80-20-S-D22-PTFE/MS-Z02-1-HP** **KAS-80-20-A-D22-PTFE/MS-Z02-1-HP**

Art.-No.	811 800	811 600
Connection diagram No.	4	6
Operating voltage (U_B)	10...35 V DC	10...35 V DC
Output current max. (I_o)	250 mA	2 x 250 mA
Voltage drop max. (U_d)	≤ 2.0 V	≤ 2.0 V
Permitted residual ripple max.	10 %	10 %
No-load current (I_o)	Typ. 15 mA	Typ. 15 mA
Frequency of operating cycles max.	300 Hz	300 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 67*	IP 67*
Norm	EN 60947-5-2	EN 60947-5-2
Connection cable	2 m, PUR, 3 x 0.34 mm ²	2 m, PVC, 4 x 0.34 mm ²
Housing material	Brass	Brass
Active surface	PTFE (FDA 21 CFR 177.1550)	PTFE (FDA 21 CFR 177.1550)
Lid	PA / PPO	PA / PPO
Media optimized	Yes	Yes

Assessors for mounting (is not delivered with the sensor) please see our selection of accessories.

* With sealed potentiometer screw



Made in Germany



Capacitive Sensors Series 90 - AC / DC

Housing Ø 22 mm

- Housing material: PA / PPO
- Sensing distance 2...8 mm adjustable

Certificate:

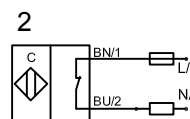
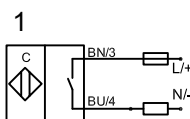
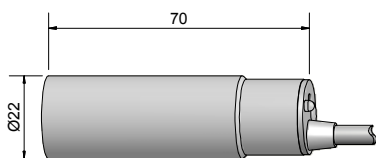


Technical data

Flush mountable

Operating distance S_n	6 mm
Operating distance min. / max. adjustable	2...8 mm
Electrical version	2-wire AC / DC
Output function	Normally closed
Type	KAS-90-20-Ö-D20-PPO-Z02-1
Art.-No.	901 200
Connection diagram No.	2
Operating voltage (U_B)	20...250 V AC / DC
Output current max. (I_o)	250 mA
Load current min.	5 mA
Voltage drop max. (U_d)	≤ 6 V
No-load current (I_o)	Typ. 2.5 mA
Frequency of operating cycles max.	25 Hz
Permitted ambient temperature	-25...+70 °C (ETL = +60 °C)
LED-display	Yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection cable	2 m, PUR, 2 x 0.34 mm ²
Housing material	PA / PPO
Active surface	PA / PPO
Lid	PA / PPO
Assessors for mounting (is not delivered with the sensor) please see our selection of accessories.	

* With sealed potentiometer screw



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