

Емкостные датчики 40 NAMUR

Технические характеристики

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Capacitive Sensors Series 40 - NAMUR

Housing Ø 6.5 mm

- Housing material: Stainless steel VA
- Sensing distance 0.5...3 mm adjustable, if used in connection with the switching amplifier TS-120...

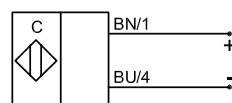
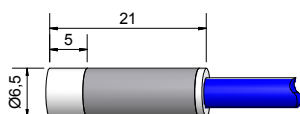
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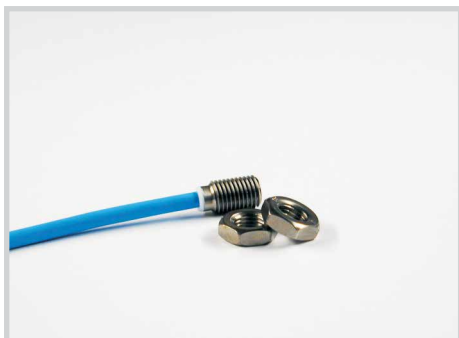


Technical data

Non-flush mountable

Operating distance S_n	2 mm
Operating distance min. / max. adjustable	0.5...3 mm
Electrical version	2-wire DC
Output function	NAMUR EN 60947-5-6
Type	KAS-42-6.5/20-N-D6.5-PTFE/VAb-Z02-0
Art.-No.	400 480
Operating voltage (U_B)	5...10 V DC
Output current active surface free	< Typ. 1.5 mA
Output current active surface covered	> Typ. 2.5 mA
Self-inductance (L)	390 mH
Self-capacitance (C)	210 nF
Permitted residual ripple max.	5%
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-25...+70 °C
LED-display	-
Degree of protection IEC 60529	IP 67
Connection cable	2 m, PVC, 2 x 0.14 mm ²
Housing material	VA No. 1.4305
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PTFE (FDA 21 CFR 177.1550)





Capacitive Sensors Series 40 - NAMUR

Housing M 8 x 1

- Housing material: Stainless steel VA
- Sensing distance 0.2...2 mm adjustable, if used in connection with the switching amplifier TS-120...

Certificate:



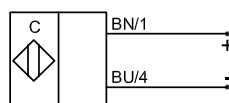
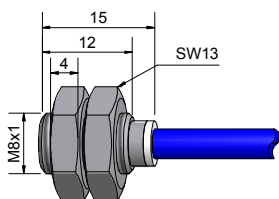
Technical data

Flush mountable

Operating distance S_n	1.5 mm
Operating distance min. / max. adjustable	0.2...2 mm
Electrical version	2-wire DC
Output function	NAMUR EN 60947-5-2
Type	KAS-42-M8/15-N-M8-PTFE/VAb-Z02-0
Art.-No.	405 150
Operating voltage (U_B)	5...10 V DC
Output current active surface free	< Typ. 1.5 mA
Output current active surface covered	> Typ. 2.5 mA
Self-inductance (L)	390 mH
Self-capacitance (C)	210 nF
Permitted residual ripple max.	5%
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-25...+70 °C
LED-display	-
Degree of protection IEC 60529	IP 67
Connection cable	2 m, PUR, 2 x 0.14 mm ²
Housing material	VA No. 1.4305
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PTFE (FDA 21 CFR 177.1550)

Accessories (is delivered with the unit)

2 pieces nuts M 8





Capacitive Sensors Series 40 - NAMUR

Housing M 8 x 1

- Housing material: Stainless steel VA
- Sensing distance 0.5...3 mm adjustable, if used in connection with the switching amplifier TS-120...

Certificate:



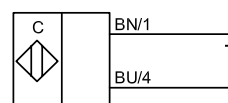
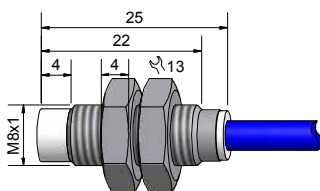
Technical data

Non-flush mountable

Operating distance S_n	2 mm
Operating distance min. / max. adjustable	0.5...3 mm
Electrical version	2-wire DC
Output function	NAMUR EN 60947-5-6
Type	KAS-42-M8/25-N-PTFE/VAb-Z02-0
Art. No.	400 490
Operating voltage (U_B)	5...10 V DC
Output current active surface free	< Typ. 1.5 mA
Output current active surface covered	> Typ. 2.5 mA
Self-inductance (L)	390 mH
Self-capacitance (C)	210 nF
Permitted residual ripple max.	5 %
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-25...+70 °C
LED-display	-
Degree of protection IEC 60529	IP 67
Connection cable	2 m, PUR, 2 x 0.14 mm ²
Housing material	VA No. 1.3405
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PTFE (FDA 21 CFR 177.1550)

Accessories (is delivered with the unit)

2 pieces nuts M 8





Capacitive Sensors Series 40 - NAMUR

Housing Ø 10 mm

- Housing material: Stainless steel VA
- Sensing distance 1...4 mm adjustable, if used in connection with the switching amplifier TS-120...

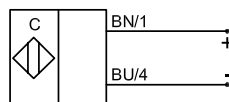
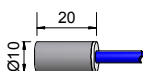
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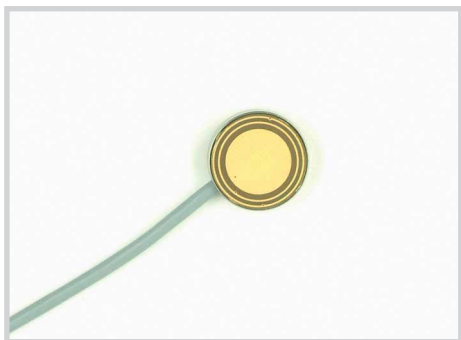


Technical data

Flush mountable

Operating distance S_n	2 mm
Operating distance min./max. adjustable	1...4 mm
Electrical version	2-wire DC
Output function	NAMUR EN 60947-5-6
Type	KAS-42-10/20-N-D10-PTFE/VAb-Z02-0
Art.-No.	KA 0313
Operating voltage (U_B)	5...10 V DC
Output current active surface free	< Typ. 1.5 mA
Output current active surface covered	> Typ. 2.5 mA
Self-inductance (L)	390 mH
Self-capacitance (C)	250 nF
Permitted residual ripple max.	5 %
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-25...+70 °C
LED-display	-
Degree of protection IEC 60529	IP 67
Connection cable	2 m, PVC, 2 x 0.14 mm ²
Housing material	VA No. 1.4305
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PTFE (FDA 21 CFR 177.1550)





Capacitive Sensors Series 40 - NAMUR

Housing Ø 18 mm

- Housing material: Stainless steel VA
- Sensing distance 1...8 mm adjustable, if used in connection with the switching amplifier TS-120...

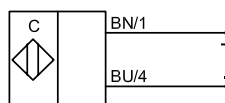
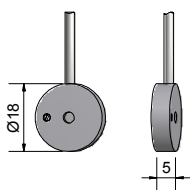
Certificate:



Technical data

Flush mountable

Operating distance S_n	5 mm
Operating distance min. / max. adjustable	1...8 mm
Electrical version	2-wire DC
Output function	NAMUR EN 60947-5-6
Type	KAS-42-18/5-N-D18-PTFE/VAb-Z02-0
Art.-No.	KA 0308
Operating voltage (U_B)	$U_i = 15 \text{ V DC}$
Output current active surface free	< Typ. 1.5 mA
Output current active surface covered	> Typ. 2.5 mA
Self-inductance (L)	0.2 mH
Self-capacitance (C)	250 nF
Permitted residual ripple max.	5 %
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-25...+70 °C
LED-display	-
Degree of protection IEC 60529	IP 67
Connection cable	2 m, PUR, 2 x 0.14 mm ²
Housing material	VA No. 1.4305
Active surface	Epoxy
Lid	-





Capacitive Sensors Series 40 NAMUR- StEx- ATEX

Housing M 30 x 1.5

- For use in areas with the risk of dust explosion, zone 20
- For use in areas with the risk of gas explosion, zone 0
- Sensing distance 2...20 mm adjustable

DMT 03 ATEX E 048	IECEx BVS 07.0031
Ex II 1G Ex ia IIC T1-T6 Ga	Ex ia IIC T1-T6 Ga
Ex II 1D Ex ia IIIC T101°C Da	Ex ia IIIC T101°C Da

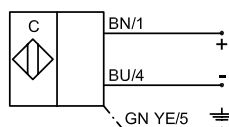
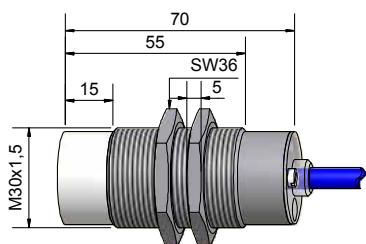


Technical data

Non-flush mountable

Operating distance S_n	15 mm
Operating distance min. / max. adjustable	2...20 mm
Electrical version	2-wire DC
Output function	NAMUR EN 60947-5-6
Type	KAS-40-A24-N-StEx
Art.-No.	KA 0095
Operating voltage (U_B)	5 - 15 V DC, $U_i = 15$ V DC
Output current active surface free	< typ. 1.5 mA
Output current active surface covered	> typ. 2.5 mA
Self-inductance (L)	0.2 mH
Self-capacitance (C)	250 nF
Permitted residual ripple max.	5%
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-20...+70 °C
LED-display	-
Degree of protection IEC 60529	IP 67*
Connection cable	3 m, PUR, 3 x 0.75 mm ²
Housing material	VA No. 1.4305
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
Accessories (is delivered with the unit)	2 pieces nuts M 30

* With sealed potentiometer screw





Capacitive Sensors Series 40 NAMUR- StEx- ATEX

Housing M 30 x 1.5

- For use in areas with the risk of dust explosion, zone 20
- For use in areas with the risk of gas explosion, zone 0
- Sensing distance 2...20 mm adjustable
- With flange connector M 12 x 1, 3-pin incl. protective wire pin

DMT 03 ATEX E 048	IECEX BVS 07.0031
Ex II 1G Ex ia IIC T1-T6 Ga	Ex ia IIC T1-T6 Ga
Ex II 1D Ex ia IIIC T101°C Da	Ex ia IIIC T101°C Da



Technical data

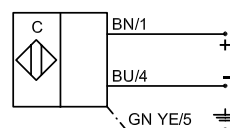
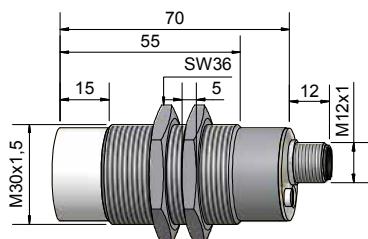
Non-flush mountable

Operating distance S_n	15 mm
Operating distance min. / max. adjustable	2...20 mm
Electrical version	2-pin DC
Output function	NAMUR EN 60947-5-6
Type	KAS-40-A24-N-Y10-StEx
Art.-No.	KA 0870
Operating voltage (U_b)	5 - 15 V DC, $U_i = 15$ V DC
Output current active surface free	< typ. 1.5 mA
Output current active surface covered	> typ. 2.5 mA
Self-inductance (L)	0.2 mH
Self-capacitance (C)	250 nF
Permitted residual ripple max.	5%
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-20...+70 °C
LED-display	-
Degree of protection IEC 60529	IP 67*
Connection	Flange connector M 12 x 1
Housing material	VA No. 1.4305
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)

Accessories (is delivered with the unit) 2 pieces nuts M 30, Protective clip

For matching connectors please see our selection of accessories.

* With sealed potentiometer screw





Capacitive Sensors Series 40 NAMUR- StEx- ATEX

Housing M 32 x 1.5

- For use in areas with the risk of dust explosion, zone 20
- For use in areas with the risk of gas explosion, zone 0
- Sensing distance 3...20 mm adjustable

DMT 03 ATEX E 048	IECEX BVS 07.0031
Ex II 1G Ex ia IIC T1-T6 Ga	Ex ia IIC T1-T6 Ga
Ex II 1D Ex ia IIIC T101°C Da	Ex ia IIIC T101°C Da

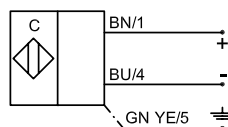
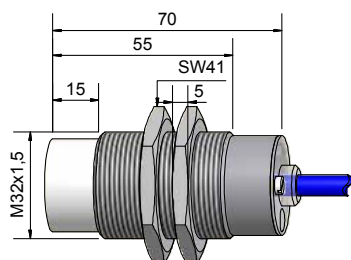


Technical data

Non-flush mountable

Operating distance S_n	18 mm
Operating distance min. / max. adjustable	3...20 mm
Electrical version	2-wire DC
Output function	NAMUR EN 60947-5-6
Type	KAS-40-34-N-M32-StEx
Art.-No.	KA 0094
Operating voltage (U_B)	5 - 15 V DC, $U_i = 15$ V DC
Output current active surface free	< typ. 1.5 mA
Output current active surface covered	> typ. 2.5 mA
Self-inductance (L)	0.2 mH
Self-capacitance (C)	250 nF
Permitted residual ripple max.	5%
Frequency of operating cycles max	50 Hz
Permitted ambient temperature	-20...+70 °C
LED-display	-
Degree of protection IEC 60529	IP 67*
Connection cable	3 m, PUR, 3 x 0.75 mm ²
Housing material	VA No. 1.4305
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
Accessories (is delivered with the unit)	2 pieces nuts M 32

* With sealed potentiometer screw





Capacitive Sensors Series 40 NAMUR- StEx- ATEX

Housing M 32 x 1.5

- For use in areas with the risk of dust explosion, zone 20
- For use in areas with the risk of gas explosion, zone 0
- Sensing distance 3...20 mm adjustable
- With flange connector M 12 x 1, 3-pin incl. protective wire pin

DMT 03 ATEX E 048	IECEX BVS 07.0031
Ex II 1G Ex ia IIC T1-T6 Ga	Ex ia IIC T1-T6 Ga
Ex II 1D Ex ia IIIC T101°C Da	Ex ia IIIC T101°C Da



Technical data

Non-flush mountable

Operating distance S_n

18 mm

Operating distance min. / max. adjustable

3...20 mm

Electrical version

2-pin DC

Output function

NAMUR EN 60947-5-6

Type

KAS-40-34-N-M32-Y10-StEx

Art.-No.

KA 0871

Operating voltage (U_b)

5 - 15 V DC, $U_i = 15$ V DC

Output current active surface free

< typ. 1.5 mA

Output current active surface covered

> typ. 2.5 mA

Self-inductance (L)

0.2 mH

Self-capacitance (C)

250 nF

Permitted residual ripple max.

5 %

Frequency of operating cycles max

50 Hz

Permitted ambient temperature

-20...+70 °C

LED-display

-

Degree of protection IEC 60529

IP 67*

Connection

Flange connector M 12 x 1

Housing material

VA No. 1.4305

Active surface

PTFE (FDA 21 CFR 177.1550)

Lid

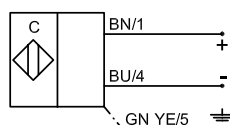
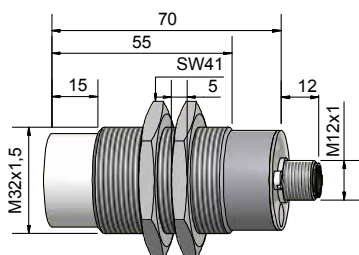
PC (FDA 21 CFR 177.1580)

Accessories (is delivered with the unit)

2 pieces nuts M 32, Protective clip

For matching connectors please see our selection of accessories.

* With sealed potentiometer screw





Capacitive Sensors Serie 40 - NAMUR - StEx - ATEX

Housing Ø 26 mm / G 1" / 40 mm

- For use in areas with the risk of dust explosion, zone 20
- For use in areas with the risk of gas explosion, zone 0
- Housing material: PTFE
- Sensing distance 0...15 mm adjustable
- Special version with flange. Sealing can be made with a gasket or PTFE-tape (not supplied with the sensor)

DMT 03 ATEX E 048

IECEx BVS 07.0031

Ex II 1G Ex ia IIC T1-T6 Ga

Ex ia IIC T1-T6 Ga

Ex II 1D Ex ia IIIC T101°C Da

Ex ia IIIC T101°C Da

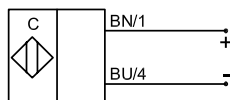
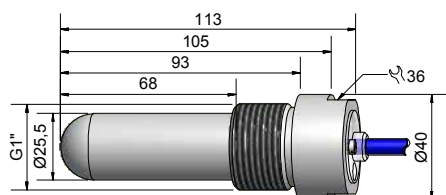


Technical data

Non-flush mountable

Operating distance S_n	5 mm
Operating distance min. / max. adjustable	0...15 mm
Electrical version	2-wire DC
Output function	NAMUR DIN 60947-5-6
Type	KAS-40-26-N-K-G1"-PTFE-StEx
Art. No.	KA 0933
Operating voltage (U_B)	5 - 15 V DC, $U_i = 15$ V DC
Output current active surface free	< typ. 1.5 mA
Output current active surface covered	> typ. 3 mA
Self-inductance (L)	0.2 mH
Self-capacitance (C)	250 nF
Permitted residual ripple max.	5 %
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	0...+70 °C / CIP 121 °C (zero-current)
LED-display	Yellow
Degree of protection IEC 60529	IP 67*
Connection cable	2 m, PUR, 2 x 0.75 mm ²
Housing material	PTFE (FDA 21 CFR 177.1550)
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)

* With sealed potentiometer screw





Capacitive Sensors Serie 40 - NAMUR - StEx - ATEX

Housing Ø 26 mm / G 1" / 40 mm

- For use in areas with the risk of dust explosion, zone 20
- For use in areas with the risk of gas explosion, zone 0
- Housing material: PTFE
- Sensing distance 0...15 mm adjustable
- With flange, sealing can be made with a gasket or PTFE-tape (not supplied with the sensor).
- With flange connector M 12 x 1

DMT 03 ATEX E 048	IECEX BVS 07.0031
Ex II 1G Ex ia IIC T1-T6 Ga	Ex ia IIC T1-T6 Ga
Ex II 1D Ex ia IIIC T101°C Da	Ex ia IIIC T101°C Da



Technical data

Non-flush mountable

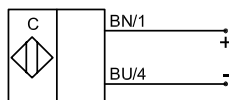
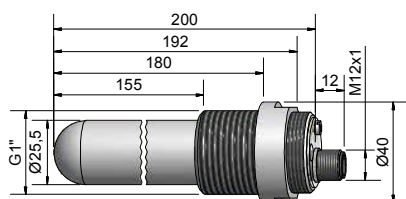
Operating distance S_n	5 mm
Operating distance min. / max. adjustable	0...15 mm
Electrical version	2-pin DC
Output function	NAMUR DIN 60947-5-6
Type	KAS-40-26-N-K-G1"-200-PTFE-Y5-StEx
Art. No.	KA 1231
Operating voltage (U_B)	5 - 15 V DC, $U_i = 15$ V DC
Output current active surface free	< typ 1.5 mA
Output current active surface covered	> typ. 3 mA
Self-inductance (L)	0.2 mH
Self-capacitance (C)	250 nF
Permitted residual ripple max.	5 %
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	0...+70 °C / CIP 121 °C (zero-current)
LED-display	Yellow
Degree of protection IEC 60529	IP 67*
Connection	Flange connector M 12 x 1
Housing material	PTFE (FDA 21 CFR 177.1550)
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)

Accessories (is delivered with the unit)

Protective clip

For matching connectors please see our selection of accessories.

* With sealed potentiometer screw



По вопросам продаж и поддержки обращайтесь:

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